User Guide

AWS European Sovereign Cloud User Guide

AWS European Sovereign Cloud User Guide: User Guide

Table of Contents

What is AWS European Sovereign Cloud?

The AWS European Sovereign Cloud is a independent cloud for Europe, designed to help public sector organizations and customers in highly regulated industries meet their evolving sovereignty needs. The AWS European Sovereign Cloud is separate and independent from other AWS Regions, with infrastructure located wholly within the European Union (EU). Customers and partners using the AWS European Sovereign Cloud benefit from the full power of AWS including the same service portfolio, security, availability, performance, familiar architecture, APIs, and innovations such as the AWS Nitro System. The AWS European Sovereign Cloud combines operational autonomy with expansive AWS services to meet the stringent sovereignty needs of European governments and enterprises.

Building on deep experience running AWS services for the most sensitive workloads around the world, the AWS European Sovereign Cloud is designed with the unmatched operational resilience our customers expect from AWS. The design of the AWS European Sovereign Cloud enables it to continue operations indefinitely, even in the event of a connectivity interruption between the AWS European Sovereign Cloud and the rest of the world. European customers and governments benefit from the resilient AWS architecture that features multiple Availability Zones with independent power, networking, facilities, and security capabilities that make these critical operations possible. AWS is committed to independent and continuous operations; the AWS European Sovereign Cloud has no critical dependencies on non-EU infrastructure. Everything needed to operate the AWS European Sovereign Cloud is in the EU: the talent, the technology, the infrastructure, and the leadership. In addition to independent infrastructure, there will be zero operational control outside of EU borders; only AWS employees, residing in the EU, will control day-to-day operations, including access to data centers, technical support, and customer service for the AWS European Sovereign Cloud. It also features enhanced controls allowing customers to keep all customer data and the metadata they create (such as the roles, permissions, resource labels, and configurations they use to run AWS) in the EU.

Getting Started with AWS European Sovereign Cloud

The following topics describe how to sign up and get set up with AWS European Sovereign Cloud.

Topics

Signing up for an AWS account

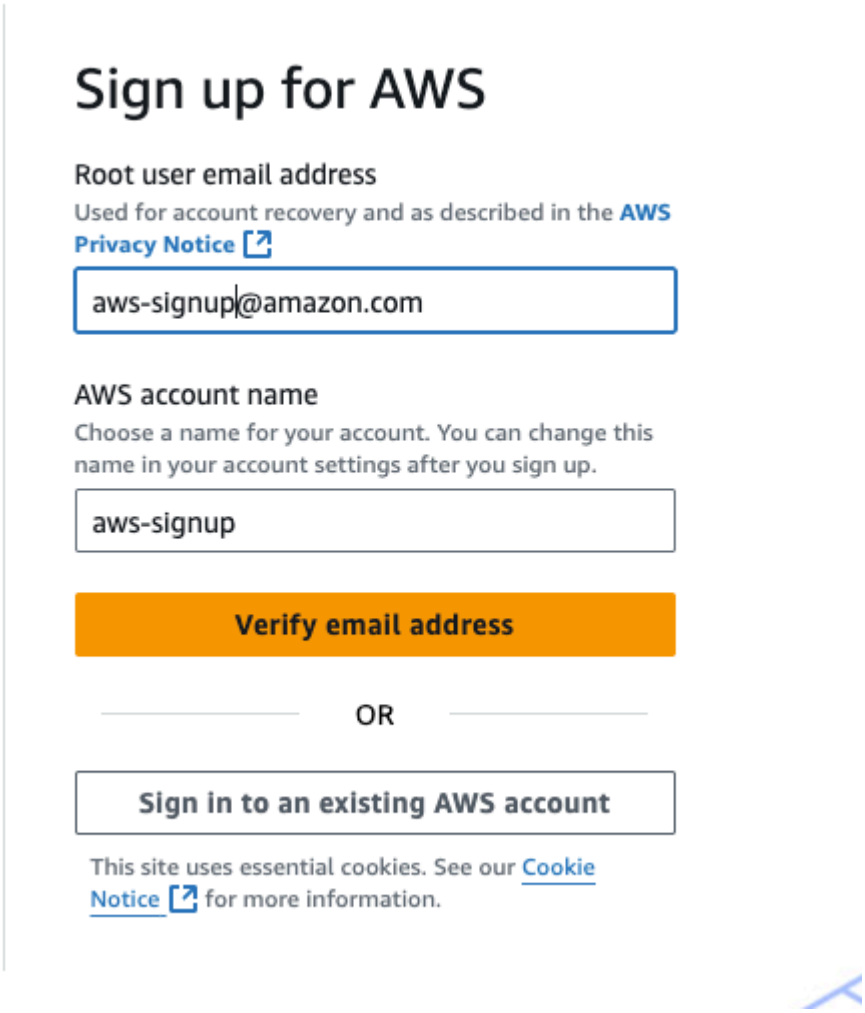
Prerequisites for creating a new AWS account

To sign up for an AWS account, you'll need to provide the following information:

- **Root user email address** — The email address is used as the sign-in name for the root user and is required for account recovery. You must be able to receive email messages that are sent to this address. Before you can perform certain tasks, you must verify that you have access to email sent to this address.
- **AWS account name** — The name of the account appears in several places, such as on your invoice, and in consoles such as the Billing and Cost Management dashboard and the AWS Organizations console. We recommend that you use a standard way to name your accounts so that you can give your accounts names that are easy to recognize. For company accounts, consider using a naming standard such as organization-purpose-environment (for example, AnyCompany-audit-prod). For personal accounts, consider using a naming standard such as first name-last name-purpose (for example, paulo-santos-testaccount).
- **Address** — Your full name and address.
- **Phone number** — This number is used for identity verification purposes and to confirm the ownership of your account. You must be able to receive calls and SMS messages at this phone number.

Create your Account

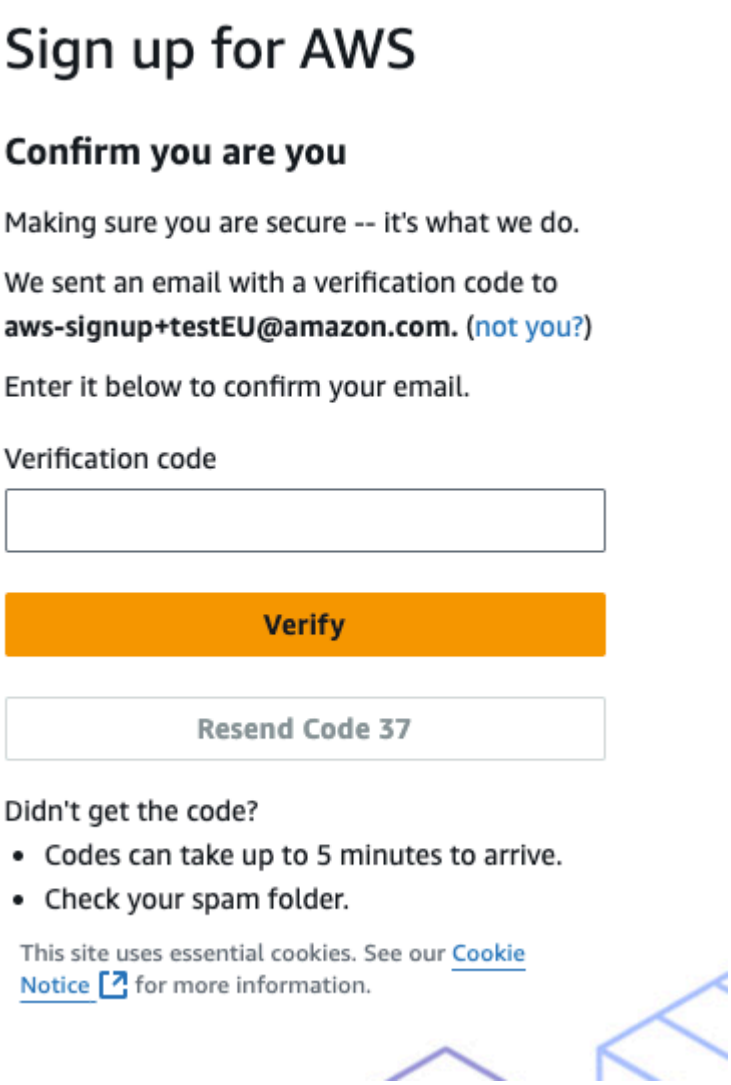
1. Open the Sign up for AWS page.
2. Enter the root user email address and AWS account name, and then choose **Verify email address**. This will send a verification code to your specified email address.



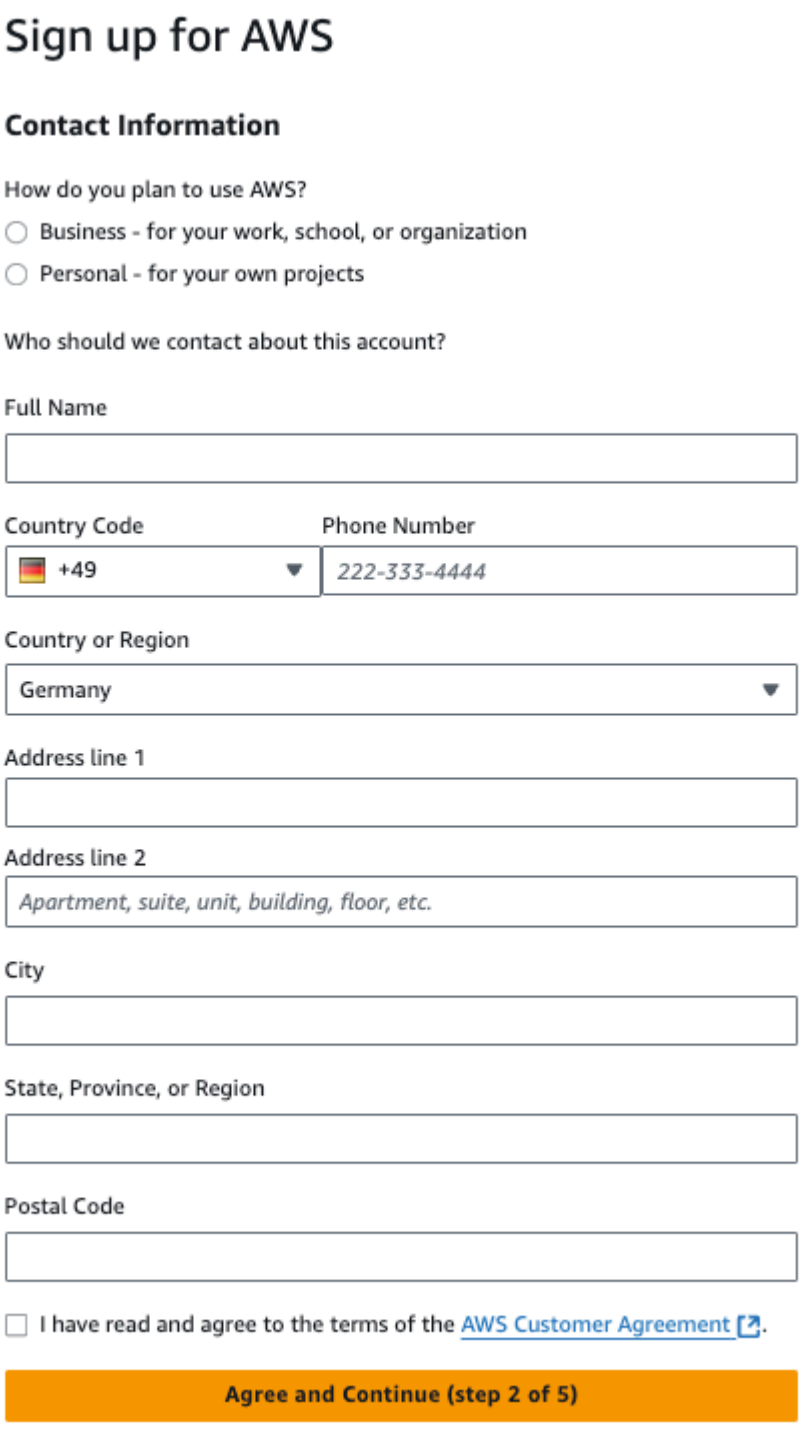
Important

If this account is for a business, use a secure corporate distribution list (for example, it.admins@example.com) so that your company can retain access to the AWS account even when an employee changes positions or leaves the company. Because the email address can be used to reset the account's root user credentials, protect access to this distribution list or address.

3. Enter your verification code, and then choose **Verify**.



4. Enter a strong password for your root user, confirm it, and then choose **Continue**. AWS requires that your password meet the following conditions:
   - It must have a minimum of 8 characters and a maximum of 128 characters.
   - It must include a minimum of three of the following mix of character types: uppercase, lowercase, numbers, and `! @ # $ % ^ & * ( ) <> [] {} | _+-=` symbols.
   - It must not be identical to your AWS account name or email address.
5. Choose **Business** or **Personal**. Personal accounts and business accounts have the same features and functions. Enter your company or personal information.

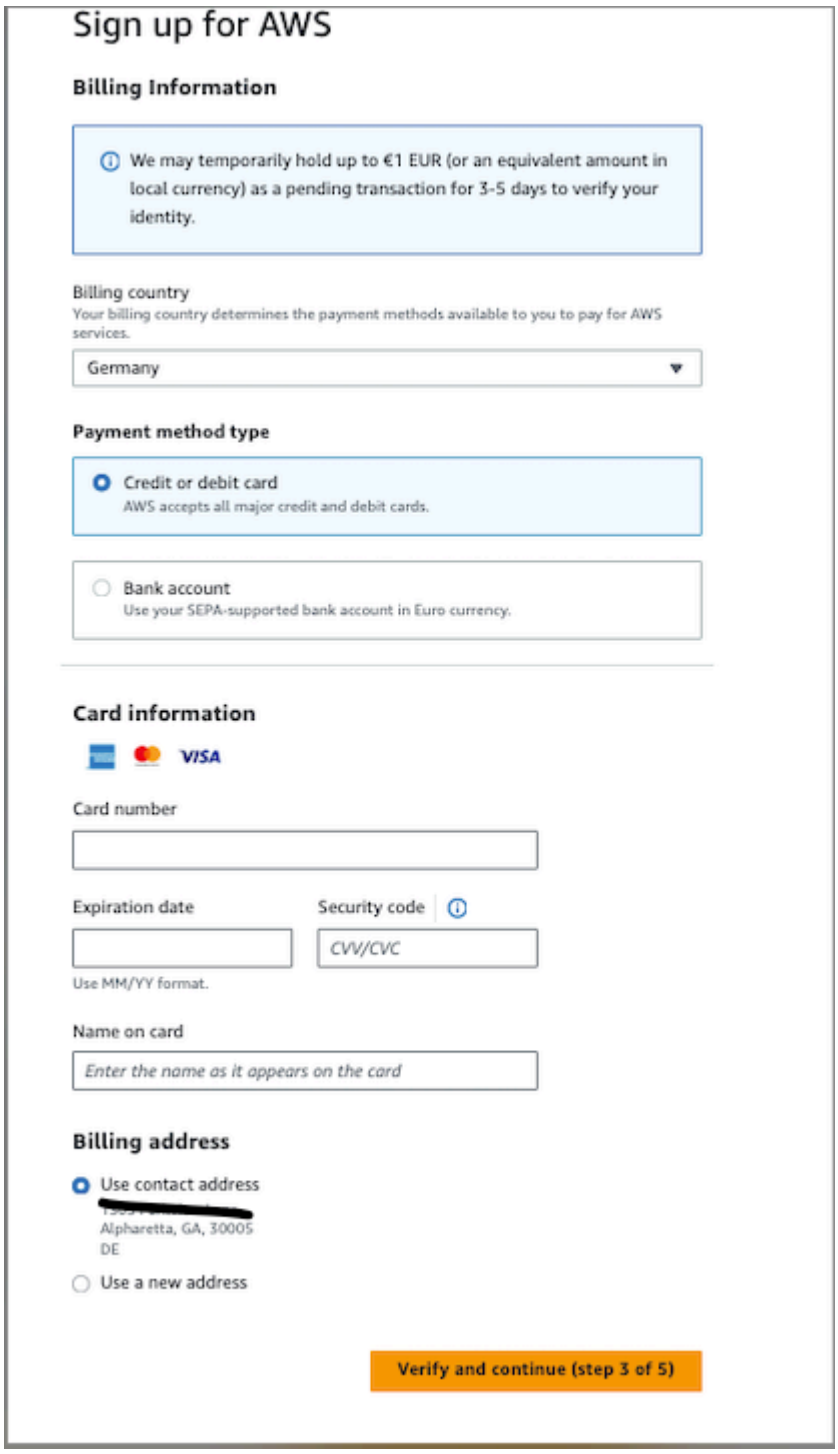


Important

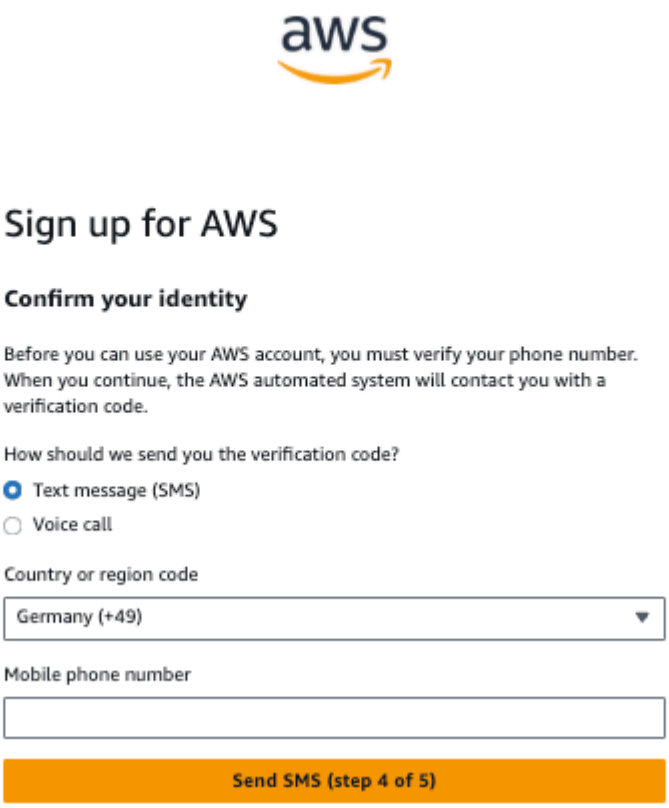
For business AWS accounts, it's a best practice to enter a company phone number rather than a number for a personal phone. Configuring the account's root user with an

individual email address or a personal phone number can make your account insecure. Read and accept the AWS Customer Agreement. Be sure that you read and understand the terms of the AWS Customer Agreement.

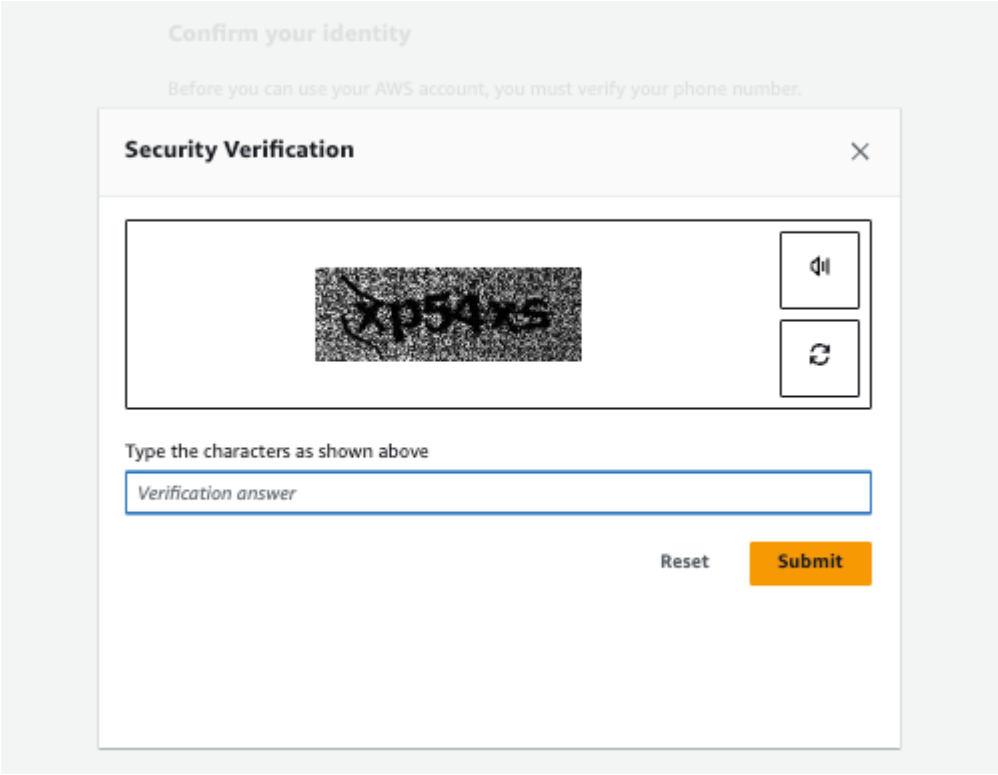
6. Choose **Agree and Continue**. At this point, you'll receive an email message to confirm that your AWS account is ready to use. You can sign in to your new account by using the email address and password you provided during sign up. However, you can't use any AWS services until you finish activating your account.
7. Enter the information about your payment method, and then choose **Verify and Continue**. If you want to use a different billing address for your AWS billing information, choose Use a new address. You can't proceed with the sign-up process until you add a valid payment method.



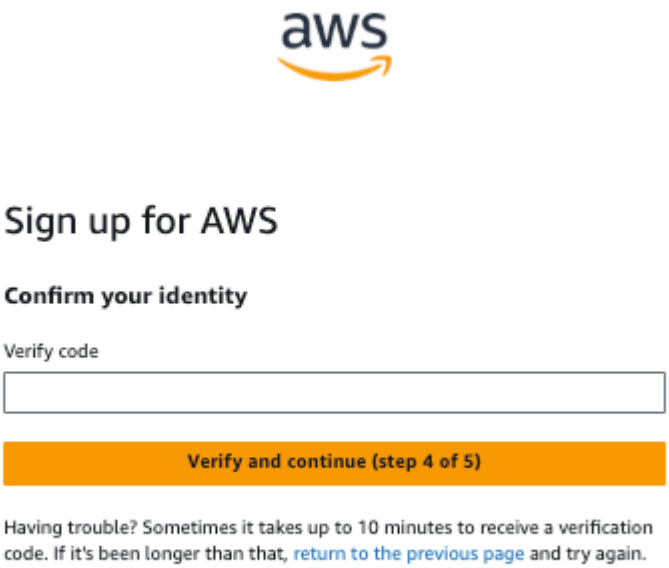
8. Enter your country or region code from the list, and then enter a phone number where you can be reached in the next few minutes.



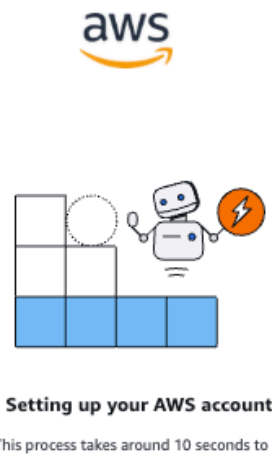
9. Enter the code displayed in the CAPTCHA, and then submit.

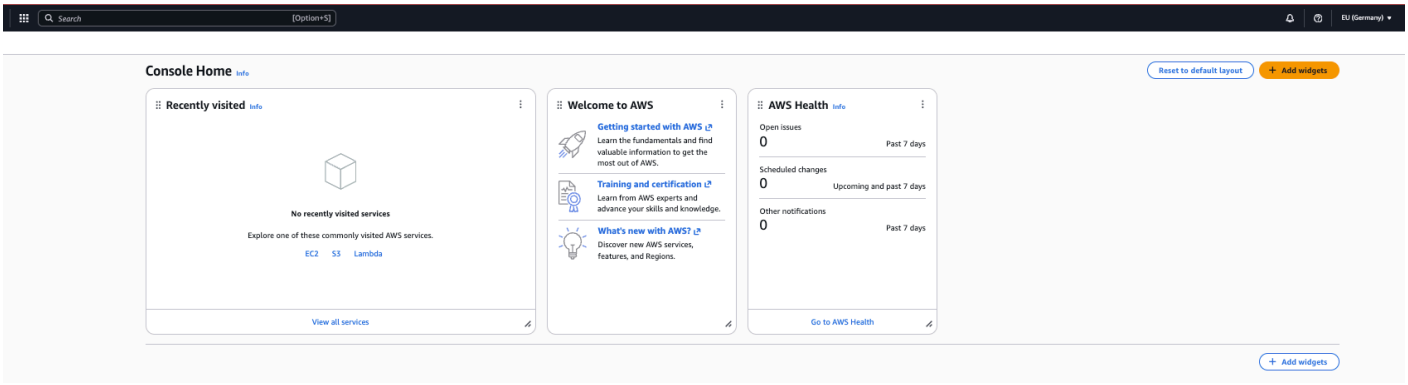


10. When the automated system contacts you, enter the PIN you receive and then submit.



11. After verification, setting up your AWS account page is shown indicating that your account is being activated and you will be redirected to console.





12. Check your email and spam folder for an email message that confirms your account was activated. Activation usually takes a few minutes but can sometimes take up to 24 hours.
13. After you receive the activation message, you can sign-in to the AWS Management Console to start using AWS services.

Endpoints

The endpoints reference for for AWS services has moved to Endpoints in AWS European Sovereign Cloud in the AWS General Reference.

If you access services in AWS European Sovereign Cloud by using the command line interface (CLI) or programmatically by using the APIs, you need to know the endpoints.

Amazon Resource Names (ARNs)

In AWS European Soverign Cloud, the Amazon Resource Name (ARN) syntax is:

```
arn:aws-eusc
```

For more information, see Identify AWS resources with Amazon Resource Names (ARNs) in the AWS Identity and Access Management User Guide.

AWS CLI and Tools for AWS European Sovereign Cloud

AWS provides several command line tools to help you build and manage your applications. This topic describes how the implementation of the AWS command line tools are different for the AWS European Sovereign Cloud Region.

The AWS SDKs and Tools Reference Guide contains information on the configuration, settings, authentication, and other foundational concepts common amongst AWS SDKs and Tools.

Topics

AWS CLI

The AWS Command Line Interface (AWS CLI) is a cross-service command line tool to manage your AWS services. The AWS CLI is supported on Windows, Linux, OS X, or Unix.

> **Note**
>
> If you're using Amazon Linux 2 AMI the AWS CLI is already installed and configured.

For more information, see the Readme file included with the AWS CLI installer.

AWS Tools for PowerShell

The AWS Tools for PowerShell enable you to manage your AWS resources with PowerShell tools similar to those you use to manage your operating system environment.

> **Note**
>
> If you are using a Windows AMI dated October 2015 (2015.10.*) or later, the AWS Tools for PowerShell are already installed and configured.

To use the AWS Tools for PowerShell in the AWS European Sovereign Cloud Region, you must set tool credentials. To specify a default region, you can add `Set-DefaultAWSRegion` to your profile or specify the `-Region` parameter for all cmdlets. Use the appropriate {aws-region} and endpoint for your resources. For more information, see Endpoints in AWS European Sovereign Cloud Region.

If you are signing requests and creating objects manually (instead of using the PowerShell cmdlets), you must set the `AuthenticationRegion` property of the ClientConfig class in the AWS European Sovereign Cloud Region.

For additional information, see the AWS Tools for PowerShell on the Developer Center.

Services in AWS European Sovereign Cloud

This section describes the services available in AWS European Sovereign Cloud. Each topic describes any significant differences between the AWS European Sovereign Cloud implementation and the non-sovereign implementation of the service.

Topics

- How Amazon Athena differs in AWS European Sovereign Cloud
- How AWS Backup differs in AWS European Sovereign Cloud
- How AWS Support Differs for AWS European Sovereign Cloud
- How AWS Trusted Advisor differs in AWS European Sovereign Cloud
- How AWS Batch differs in AWS European Sovereign Cloud
- How AWS Cloud Map differs in AWS European Sovereign Cloud
- How AWS CloudFormation differs in AWS European Sovereign Cloud
- How AWS CloudTrail differs in AWS European Sovereign Cloud
- How Amazon CloudWatch differs in AWS European Sovereign Cloud
- How Amazon CloudWatch Logs differs in AWS European Sovereign Cloud
- How AWS CodeDeploy differs in AWS European Sovereign Cloud
- How AWS Compute Optimizer differs in AWS European Sovereign Cloud
- How AWS Config differs in AWS European Sovereign Cloud
- How AWS DataSync differs in AWS European Sovereign Cloud
- How AWS Direct Connect differs in AWS European Sovereign Cloud
- How AWS Directory Service differs in AWS European Sovereign Cloud
- How AWS Database Migration Service (AWS DMS) differs in AWS European Sovereign Cloud
- How Amazon DocumentDB (with MongoDB compatibility) differs in AWS European Sovereign Cloud
- How Amazon DynamoDB differs in AWS European Sovereign Cloud
- How Amazon Elastic Block Store (Amazon EBS) differs in AWS European Sovereign Cloud
- How Amazon Elastic Compute Cloud (Amazon EC2) differs in AWS European Sovereign Cloud
- How Amazon Elastic Container Registry (Amazon ECR) differs in AWS European Sovereign Cloud
- How Amazon Elastic File System (Amazon EFS) differs in AWS European Sovereign Cloud
- How Amazon Elastic Kubernetes Service (Amazon EKS) differs in AWS European Sovereign Cloud
- How Amazon ElastiCache differs in AWS European Sovereign Cloud
- How Elastic Load Balancing (ELB) differs in AWS European Sovereign Cloud
- How Amazon EMR differs in AWS European Sovereign Cloud
- How Amazon End User Messaging differs in AWS European Sovereign Cloud
- How Amazon EventBridge differs in AWS European Sovereign Cloud

- How Amazon Data Firehose differs in AWS European Sovereign Cloud
- How Amazon FSx differs in AWS European Sovereign Cloud
- How AWS Glue differs in AWS European Sovereign Cloud
- How Amazon GuardDuty differs in AWS European Sovereign Cloud
- How AWS Health Dashboard differs in AWS European Sovereign Cloud
- How IAM and IAM Access Analyzer differs in AWS European Sovereign Cloud
- How IAM Roles Anywhere differs in AWS European Sovereign Cloud
- How EC2 Image Builder differs in AWS European Sovereign Cloud
- How Amazon Kinesis Data Streams differs in AWS European Sovereign Cloud
- How AWS Key Management Service (AWS KMS) differs in AWS European Sovereign Cloud
- How AWS Lake Formation differs in AWS European Sovereign Cloud
- How AWS Lambda differs in AWS European Sovereign Cloud
- How AWS License Manager differs in AWS European Sovereign Cloud
- How Amazon Linux differs in AWS European Sovereign Cloud
- How AWS Marketplace differs in AWS European Sovereign Cloud
- How Amazon Neptune differs in AWS European Sovereign Cloud
- How AWS User Notifications differs in AWS European Sovereign Cloud
- How AWS User Notifications Contacts differs in AWS European Sovereign Cloud
- How Amazon SageMaker AI differs in AWS European Sovereign Cloud
- How Amazon OpenSearch Service differs in AWS European Sovereign Cloud
- How AWS Organizations differs in AWS European Sovereign Cloud
- How Amazon Relational Database Service (Amazon RDS) differs in AWS European Sovereign Cloud
- How Amazon Redshift differs in AWS European Sovereign Cloud
- How AWS Resource Groups differs in AWS European Sovereign Cloud
- How Amazon Route 53 differs in AWS European Sovereign Cloud
- How Amazon Simple Storage Service (Amazon S3) differs in AWS European Sovereign Cloud
- How AWS Secrets Manager differs in AWS European Sovereign Cloud
- How AWS Security Hub CSPM differs in AWS European Sovereign Cloud
- How Service Quotas differs in AWS European Sovereign Cloud
- How AWS Signer differs in AWS European Sovereign Cloud

- How Amazon Simple Notification Service (Amazon SNS) differs in AWS European Sovereign Cloud
- How Amazon Simple Queue Service (Amazon SQS) differs in AWS European Sovereign Cloud
- How AWS Systems Manager differs in AWS European Sovereign Cloud
- How Amazon VPC differs in AWS European Sovereign Cloud
- How AWS Site-to-Site VPN differs in AWS European Sovereign Cloud
- How AWS WAF differs in AWS European Sovereign Cloud
- How AWS X-Ray differs in AWS European Sovereign Cloud
- How Application Recovery Controller - Zonal Shift differs in AWS European Sovereign Cloud

How AWS Account Management differs in AWS European Sovereign Cloud

This topic describes the functionality of AWS Account Management in the AWS European Sovereign Cloud Region.

An AWS account is the basic container for all the AWS resources you create as an AWS customer. For example, an Amazon Simple Storage Service (Amazon S3) bucket, an Amazon Relational Database Service (Amazon RDS) database, and an Amazon Elastic Compute Cloud (Amazon EC2) instance are all resources. Every resource is uniquely identified by an Amazon Resource Name (ARN) that includes the account ID of the account that contains, or owns, the resource. An AWS account is also the basic security boundary for your AWS resources. Resources that you create in your account are available to users who have credentials for your account.

Service Differences

The following differences apply to Account Management in AWS European Sovereign Cloud:

- The process to sign up for a new AWS account is different than in commercial regions. For more information, see Getting an account.
- The following AWS Account Management APIs are available in the AWS European Sovereign Cloud:
  - `AcceptPrimaryEmailUpdate`
  - `DeleteAlternateContact`
  - `GetAccountInformation`

- `GetAlternateContact`
- `GetContactInformation`
- `GetPrimaryEmail`
- `PutAccountName`
- `PutAlternateContact`
- `PutContactInformation`
- `StartPrimaryEmailUpdate`

- The AWS European Sovereign Cloud supports 3 types of MFA: Passkeys/FIDO-based security key; Authenticator Apps; Hardware TOTP token. This support applies to the account level (root user) and also to IAM users.
- Amazon Resource Names (ARNs) and endpoints have different values.

Documentation References

- Account Management documentation
- AWS Developer Tools in AWS European Sovereign Cloud
- Service endpoints for AWS European Sovereign Cloud

How AWS Certificate Manager (ACM) differs in AWS European Sovereign Cloud

This topic describes the functionality of AWS Certificate Manager (ACM) in the AWS European Sovereign Cloud Region.

AWS Certificate Manager (ACM) helps you to provision, manage, and renew publicly trusted TLS certificates on AWS based websites.

Service Differences

The following differences apply to ACM in AWS European Sovereign Cloud:

Validation Methods

- ACM does not support Email Validation

- ACM does not support HTTP Validation with CloudFront

Root Certificate Authorities

ACM adds the following Root CAs:

Root CA	Key Algorithm
CN=Amazon RSA 2048 Root EU M1,O=Amazon,C=DE	2048-bit RSA (RSA_2048)
CN=Amazon ECDSA 256 Root EU M1,O=Amazon,C=DE	Elliptic Prime Curve 256 bit (EC_prime256v1)
CN=Amazon ECDSA 384 Root EU M1,O=Amazon,C=DE	Elliptic Prime Curve 384 bit (EC_secp384r1)

CAA Records

ACM adds the following CAA records:

- amazontrustservices.eu
- amazonaws.eu
- amznts.eu

OCSP Endpoint Changes

ACM changes the OCSP endpoint:

- http://*.amazontrust.com
- http://*.amznts.eu

CRL Endpoint Changes

ACM changes the CRL endpoint:

- http://**.amazontrust.com/**.crl

- http://**.amznts.eu/**.crl

Documentation References

- AWS Certificate Manager (ACM) documentation
- AWS Developer Tools in AWS European Sovereign Cloud
- Service endpoints for AWS European Sovereign Cloud

How AWS AppConfig differs in AWS European Sovereign Cloud

This topic describes the functionality of AWS AppConfig in the AWS European Sovereign Cloud Region.

AWS AppConfig feature flags and dynamic configurations help software builders quickly and securely adjust application behavior in production environments without full code deployments. AWS AppConfig speeds up software release frequency, improves application resiliency, and helps you address emergent issues more quickly.

Service Differences

The following differences apply to AWS AppConfig in AWS European Sovereign Cloud:

- This service has no differences between the AWS European Sovereign Cloud Region and the standard AWS Regions.

Documentation References

- AWS AppConfig documentation
- AWS Developer Tools in AWS European Sovereign Cloud
- Service endpoints for AWS European Sovereign Cloud

How AWS Resource Access Manager (AWS RAM) differs in AWS European Sovereign Cloud

This topic describes the functionality of AWS Resource Access Manager (AWS RAM) in the AWS European Sovereign Cloud Region.

Service Differences

The following differences apply to AWS RAM in AWS European Sovereign Cloud:

- This service has no differences between the AWS European Sovereign Cloud Region and the standard AWS Regions.

Documentation References

- AWS Resource Access Manager (AWS RAM) documentation
- AWS Developer Tools in AWS European Sovereign Cloud
- Service endpoints for AWS European Sovereign Cloud

How AWS Artifact differs in AWS European Sovereign Cloud

This topic describes the functionality of AWS Artifact in the AWS European Sovereign Cloud Region.

AWS Artifact is a web service that enables you to download AWS security and compliance documents such as ISO certifications and SOC reports.

Service Differences

The following differences apply to AWS Artifact in AWS European Sovereign Cloud:

- Artifact Agreements is not available

Documentation References

- AWS Artifact documentation

- AWS Developer Tools in AWS European Sovereign Cloud
- Service endpoints for AWS European Sovereign Cloud

How Application Auto Scaling differs in AWS European Sovereign Cloud

This topic describes the functionality of Application Auto Scaling in the AWS European Sovereign Cloud Region.

Application Auto Scaling is a web service for developers and system administrators who need a solution for automatically scaling their scalable resources for individual AWS services beyond Amazon EC2 Auto Scaling.

Service Differences

The following differences apply to Application Auto Scaling in AWS European Sovereign Cloud:

- Only the following resources are supported:
  - Aurora replicas.
  - DynamoDB tables and global secondary indexes.
  - Amazon ECS services.
  - ElastiCache replication groups (Redis OSS and Valkey) and Memcached clusters.
  - Amazon EMR clusters.
  - Lambda function provisioned concurrency.
  - Spot Fleet requests.
  - Custom resources provided by your own applications or services.
- Predictive scaling is not available.
- Application Auto Scaling notifications are not currently supported in the AWS Personal Health Dashboard.
- Application Auto Scaling events are not currently supported in EventBridge.
- Application Auto Scaling metrics are not currently supported in CloudWatch.
- Application Auto Scaling interface VPC endpoints are not currently supported in PrivateLink.

Documentation References

- Application Auto Scaling documentation
- AWS Developer Tools in AWS European Sovereign Cloud
- Service endpoints for AWS European Sovereign Cloud

How Amazon EC2 Auto Scaling differs in AWS European Sovereign Cloud

This topic describes the functionality of Amazon EC2 Auto Scaling in the AWS European Sovereign Cloud Region.

Amazon EC2 Auto Scaling allows you to scale your Amazon Elastic Compute Cloud capacity up or down automatically according to conditions you define. With Amazon EC2 Auto Scaling, you can ensure that the number of Amazon Elastic Compute Cloud instances you're using increases seamlessly to maintain performance during demand spikes, and decreases automatically to minimize costs during demand lulls. Auto Scaling is particularly well suited for applications that experience hourly, daily, or weekly variability in usage. Auto Scaling is enabled by Amazon CloudWatch and available at no additional charge beyond CloudWatch fees.

Service Differences

The following differences apply to Auto Scaling in AWS European Sovereign Cloud:

- You cannot create a predictive scaling policy in AWS European Sovereign Cloud Region.
- Capacity Reservation preference is not available in AWS European Sovereign Cloud Region.

Documentation References

- Amazon EC2 Auto Scaling documentation
- AWS Developer Tools in AWS European Sovereign Cloud
- Service endpoints for AWS European Sovereign Cloud

How AWS Management Console differs in AWS European Sovereign Cloud

This topic describes the functionality of AWS Management Console in the AWS European Sovereign Cloud Region.

The AWS Management Console provides a unified interface for accessing and interacting with a wide range of AWS services. As well as providing intuitive tools for discovering new services, the console keeps track of your recently visited services and your favorites. You can also customize your home page experience by adding widgets that organize options around themes such as service health, cost and usage, and solution wizards.

Service Differences

The following differences apply to the console in AWS European Sovereign Cloud:

- This service has no differences between the AWS European Sovereign Cloud Region and the standard AWS Regions.

Documentation References

- AWS Management Console documentation
- AWS Developer Tools in AWS European Sovereign Cloud
- Service endpoints for AWS European Sovereign Cloud

How Amazon Bedrock differs in AWS European Sovereign Cloud

This topic describes the functionality of Amazon Bedrock in the AWS European Sovereign Cloud Region.

Amazon Bedrock is a fully managed service that makes it easy to use foundation models from third-party providers and Amazon.

Service Differences

The following differences apply to Amazon Bedrock in AWS European Sovereign Cloud:

- Model availability for all regions, including AWS European Sovereign Cloud, is available at Model support by AWS Region.
- Feature support for all regions, including AWS European Sovereign Cloud, is available at Feature support by AWS Region.

Documentation References

- Amazon Bedrock documentation
- AWS Developer Tools in AWS European Sovereign Cloud
- Service endpoints for AWS European Sovereign Cloud

How Amazon Cognito differs in AWS European Sovereign Cloud

This topic describes the functionality of Amazon Cognito in the AWS European Sovereign Cloud Region.

Amazon Cognito handles user authentication and authorization for your web and mobile apps. With user pools, you can easily and securely add sign-up and sign-in functionality to your apps. With identity pools (federated identities), your apps can get temporary credentials that grant users access to specific AWS resources, whether the users are anonymous or are signed in.

Service Differences

The following differences apply to Amazon Cognito in AWS European Sovereign Cloud:

- Integration with AWS End User Messaging Service for SMS messages and Amazon Simple Email Service for email messages is only available with resources within the AWS European Sovereign Cloud Region.
- Amazon Cognito Sync is not available in AWS European Sovereign Cloud Region.
- Custom domains for user pools are not supported in AWS European Sovereign Cloud Region. You can only choose a prefix domain. An example domain is `https://mydomainprefix.auth.cognito-idp.eusc-de-east-1.on.amazonwebservices.eu`.
- AWS WAF web ACLs aren't available for user pools in the AWS European Sovereign Cloud Region.

Documentation References

- Amazon Cognito documentation
- AWS Developer Tools in AWS European Sovereign Cloud
- Service endpoints for AWS European Sovereign Cloud

How AWS Control Tower differs in AWS European Sovereign Cloud

This topic describes the functionality of AWS Control Tower in the AWS European Sovereign Cloud Region.

AWS Control Tower is a service that enables you to enforce and manage governance rules for security, operations, and compliance at scale across all your organizations and accounts in the AWS Cloud.

Service Differences

The following differences apply to AWS Control Tower in AWS European Sovereign Cloud:

API Permissions

The following permissions are not available in this partition:

- `controltower:DescribeManagedAccount`
- `controltower:DescribeManagedOrganizationalUnit`
- `controltower:ListManagedOrganizationalUnits`
- `controltower:ListManagedAccounts`
- `controltower:ManageOrganizationalUnit`
- `controltower:DescribeRegisterOrganizationalUnitOperation`
- `controltower:DescribeGuardrailForTarget`
- `controltower:ListGuardrailsForTarget`
- `controltower:DisableGuardrail`
- `controltower:EnableGuardrail`
- `controltower:DeregisterOrganizationalUnit`

- controltower:SetupLandingZone
- controltower:PerformPreLaunchChecks
- controltower:GetLandingZoneStatus
- controltower:DescribeLandingZoneConfiguration
- controltower:GetAvailableUpdates
- controltower:GetLandingZoneDriftStatus
- controltower:GetHomeRegion
- controltower:DescribeGuardrail
- controltower:ListGuardrails

Use the following permissions instead:

- controltower:GetEnabledBaseline
- controltower:ListEnabledBaselines
- controltower:ResetEnabledBaseline
- controltower:UpdateLandingZone
- controltower:GetBaselineOperation
- controltower:GetEnabledControl
- controltower:ListEnabledControls
- controltower:ResetLandingZone
- controltower:GetLandingZoneOperation
- controltower:CreateLandingZone
- controltower:DeleteLandingZone
- controltower:EnableControl
- controltower:DisableBaseline
- controltower:EnableBaseline
- controltower:ListLandingZoneOperations
- controltower:GetLandingZone
- controltower:ListLandingZones
- controltower:UpdateEnabledBaseline
- controlcatalog:GetControl

- `controlcatalog:ListControls`

Controls

- Resource control policy (RCP) controls are not available.
- Declarative controls are not available.

Account Provisioning and Customization

- AWS Control Tower Account Factory for Terraform (AFT) is not available.
- Customizations for AWS Control Tower (CfCT) is not available.
- Account Factory Customization (AFC) is not available.
- AWS Control Tower does not create an AWS Service Catalog Account Factory Portfolio and Product.

Landing Zone

- The Landing Zone integration with IAM Identity Center is not available.
- The Landing Zone integration with AWS Backup is not available.

Baselines

- `IdentityCenterBaseline` is not available due to the lack of IAM Identity Center integration.
- The following baselines are not available due to the lack of AWS Backup integration:
  - `BackupCentralVaultBaseline`
  - `BackupAdminBaseline`
  - `BackupBaseline`

Documentation References

- AWS Control Tower documentation
- AWS Developer Tools in AWS European Sovereign Cloud
- Service endpoints for AWS European Sovereign Cloud

How Amazon Managed Service for Apache Flink differs in AWS European Sovereign Cloud

This topic describes the functionality of Amazon Managed Service for Apache Flink in the AWS European Sovereign Cloud Region.

With Amazon Managed Service for Apache Flink, you can use Java, Scala, or SQL to process and analyze streaming data. The service enables you to author and run code against streaming sources to perform time-series analytics, feed real-time dashboards, and create real-time metrics.

Service Differences

The following differences apply to Amazon Managed Service for Apache Flink in AWS European Sovereign Cloud:

- Amazon Managed Service for Apache Flink does not support Key Management Service - Customer Manager Keys feature in AWS European Sovereign Cloud

Documentation References

- Amazon Managed Service for Apache Flink documentation
- AWS Developer Tools in AWS European Sovereign Cloud
- Service endpoints for AWS European Sovereign Cloud

How Amazon Managed Streaming for Apache Kafka (Amazon MSK) differs in AWS European Sovereign Cloud

This topic describes the functionality of Amazon Managed Streaming for Apache Kafka (Amazon MSK) in the AWS European Sovereign Cloud Region.

Amazon Managed Streaming for Apache Kafka (Amazon MSK) is a fully managed service that makes it easy for you to build and run applications that use Apache Kafka to process streaming data.

Service Differences

The following differences apply to Amazon MSK in AWS European Sovereign Cloud:

- MSK Provisioned Express Brokers is not available in the AWS European Sovereign Cloud (Germany) region.
- MSK Serverless is not available in the AWS European Sovereign Cloud (Germany) region.
- MSK Replicator is not available in the AWS European Sovereign Cloud (Germany) region.
- MSK Connect is not available in the AWS European Sovereign Cloud (Germany) region.

Documentation References

- Amazon Managed Streaming for Apache Kafka (Amazon MSK) documentation
- AWS Developer Tools in AWS European Sovereign Cloud
- Service endpoints for AWS European Sovereign Cloud

How AWS Private Certificate Authority differs in AWS European Sovereign Cloud

This topic describes the functionality of AWS Private Certificate Authority in the AWS European Sovereign Cloud Region.

AWS Private Certificate Authority (AWS Private CA) is a hosted private certificate authority service to issue and revoke digital certificates deployed in your organization's private PKI, including on AWS managed resources and in the Internet of Things.

Service Differences

The following differences apply to AWS Private CA in AWS European Sovereign Cloud:

- This service has no differences between the AWS European Sovereign Cloud Region and the standard AWS Regions.

Documentation References

- AWS Private Certificate Authority documentation
- AWS Developer Tools in AWS European Sovereign Cloud
- Service endpoints for AWS European Sovereign Cloud

How Amazon Simple Email Service (Amazon SES) differs in AWS European Sovereign Cloud

This topic describes the functionality of Amazon Simple Email Service (Amazon SES) in the AWS European Sovereign Cloud Region.

Amazon Simple Email Service (Amazon SES) is a reliable, scalable, and cost-effective email service. Digital marketers and application developers can use Amazon SES to send marketing, notification, and transactional emails.

Service Differences

The following differences apply to Amazon SES in AWS European Sovereign Cloud:

- Global Endpoints is not available in the AWS European Sovereign Cloud (Germany) region.
- SMTP is not available in the AWS European Sovereign Cloud (Germany) region.

Documentation References

- Amazon Simple Email Service (Amazon SES) documentation
- AWS Developer Tools in AWS European Sovereign Cloud
- Service endpoints for AWS European Sovereign Cloud

How AWS Step Functions differs in AWS European Sovereign Cloud

This topic describes the functionality of AWS Step Functions in the AWS European Sovereign Cloud Region.

AWS Step Functions makes it easy to coordinate the components of distributed applications as a series of steps in a visual workflow. You can quickly build and run state machines to execute the steps of your application in a reliable and scalable fashion.

Service Differences

The following differences apply to Step Functions in AWS European Sovereign Cloud:

- Integration with the following AWS services or service features is not available in the Region:
  - EKS on Fargate
  - EMR on EKS
  - Amazon Bedrock
  - EMR Serverless
  - AWS Elemental MediaConvert

Documentation References

- AWS Step Functions documentation
- AWS Developer Tools in AWS European Sovereign Cloud
- Service endpoints for AWS European Sovereign Cloud

How AWS Storage Gateway differs in AWS European Sovereign Cloud

This topic describes the functionality of AWS Storage Gateway in the AWS European Sovereign Cloud Region.

AWS Storage Gateway is a service that connects an on-premises software appliance with cloud-based storage to provide seamless and secure integration between your on-premises IT environment and the AWS storage infrastructure in the AWS Cloud.

Service Differences

The following differences apply to Storage Gateway in AWS European Sovereign Cloud:

- This service has no differences between the AWS European Sovereign Cloud Region and the standard AWS Regions.

Documentation References

- AWS Storage Gateway documentation
- AWS Developer Tools in AWS European Sovereign Cloud
- Service endpoints for AWS European Sovereign Cloud

How Amazon Simple Workflow Service (Amazon SWF) differs in AWS European Sovereign Cloud

This topic describes the functionality of Amazon Simple Workflow Service (Amazon SWF) in the AWS European Sovereign Cloud Region.

Amazon Simple Workflow Service (Amazon SWF) makes it easy to build applications that coordinate work across distributed components. In Amazon SWF, a task represents a logical unit of work that is performed by a component of your application. Coordinating tasks across the application involves managing intertask dependencies, scheduling, and concurrency in accordance with the logical flow of the application. Amazon SWF gives you full control over implementing tasks and coordinating them without worrying about underlying complexities such as tracking their progress and maintaining their state.

Service Differences

The following differences apply to Amazon SWF in AWS European Sovereign Cloud:

- This service has no differences between the AWS European Sovereign Cloud Region and the standard AWS Regions.

Documentation References

- Amazon Simple Workflow Service (Amazon SWF) documentation
- AWS Developer Tools in AWS European Sovereign Cloud
- Service endpoints for AWS European Sovereign Cloud

How AWS Transfer Family differs in AWS European Sovereign Cloud

This topic describes the functionality of AWS Transfer Family in the AWS European Sovereign Cloud Region.

AWS Transfer Family is a secure transfer service that stores your data in Amazon Simple Storage Service or Amazon Elastic File System and simplifies the migration of Secure File Transfer Protocol

(SFTP), File Transfer Protocol Secure (FTPS), File Transfer Protocol (FTP), and Applicability Statement 2 (AS2) workflows to AWS.

Service Differences

The following differences apply to Transfer Family in AWS European Sovereign Cloud:

- VPC_ENDPOINT endpoint type is not supported. Only PUBLIC and VPC endpoint types are supported.
- AWS Transfer Family web apps are not supported.
- SFTP connectors with Egress Type VPC_LATTICE are not supported.

Documentation References

- AWS Transfer Family documentation
- AWS Developer Tools in AWS European Sovereign Cloud
- Service endpoints for AWS European Sovereign Cloud

How AWS Transit Gateway differs in AWS European Sovereign Cloud

This topic describes the functionality of AWS Transit Gateway in the AWS European Sovereign Cloud Region.

AWS Transit Gateway connects your Amazon Virtual Private Clouds (VPCs) and on-premises networks through a central hub.

Service Differences

The following differences apply to Transit Gateway in AWS European Sovereign Cloud:

- You can't create an Inter-Region peering between the AWS European Sovereign Cloud Region and any other AWS Region.

Documentation References

- Amazon Virtual Private Cloud documentation
- AWS Developer Tools in AWS European Sovereign Cloud
- Service endpoints for AWS European Sovereign Cloud

How AWS Billing and Cost Management differs in AWS European Sovereign Cloud

This topic describes the functionality of AWS Billing and Cost Management in the AWS European Sovereign Cloud Region.

AWS Billing and Cost Management is a service that provides features that helps you pay your bills and optimize your costs. Amazon Web Services bills your account for usage, which ensures that you pay only for what you use.

Service Differences

The following differences apply to AWS Billing and Cost Management in AWS European Sovereign Cloud:

- Cost Explorer: For access via the API, you need ce:* permissions. Granular permissions provided by ce:* actions are only supported via the API.
- Cost Anomaly Detection: The Amazon Q Developer in chat applications (chatbot) feature is not available.
- Cost Anomaly Detection: The Amazon EventBridge Notifications feature is not available.
- Cost Anomaly Detection: The AWS User Notifications feature is not available.
- Cost Anomaly Detection: The Simplified Monitoring feature is not available.
- Cost Optimization Hub: The 'After discounts' savings estimation mode is not available.
- Cost Optimization Hub: The Efficiency Metrics feature is not available.
- Customer Carbon Footprint Tool (CCFT): The Customer Carbon Footprint Tool is not available.
- Data Exports: The Legacy Cost and Usage Reports feature is not available.
- Data Exports: The Cost and Usage Dashboard feature, powered by QuickSight, is not available.
- Data Exports: The FOCUS 1.0 report with AWS columns feature is not available.

- Data Exports: The FOCUS 1.2 report with AWS columns feature is not available.
- Data Exports: The Carbon Emission report feature is not available.
- Data Exports: The Data Exports for Cost Optimization recommendations feature is not available.
- Data Exports: The following features for the Cost and Usage Report 2.0 report are not available: Billing views, Pro forma, Split cost allocation data, Capacity reservation columns and granularity.
- Advance Pay: The Advance Pay feature is not available.
- Financing: The AWS Financing feature is not available.
- Forecasting: The 18-month Forecasting and Explainable AI Insights feature is not availabl.
- Budgets: The Budgets Report feature is not available.
- Budgets: The Amazon Q Developer in chat applications (chatbot) feature is not available.
- Billing View: The Billing View feature is not available. This includes the associated views in Cost Explorer, Forecasting, Budgets, and Dashboards.
- Billing Transfer: The Billing Transfer feature is not available.
- AWS Billing Conductor: AWS Billing Conductor is not available.
- Payment Preferences: Customers paying by credit card and transacting with AWS Inc. can only pay by USD. Note that customers paying by invoice and transacting with AWS Inc., and customers transacting with AWS EMEA SARL (for both credit card and pay by invoice), can pay in any currency that AWS already supports today.
- AWS Free Tier: The AWS Free Tier feature is not available.
- Price List API: The Price List API is publicly available in THF. However, it does not provide a VPC endpoint in THF. Customers using the API from inside a VPC will need to keep a connection to the Internet set up in their VPC using an Internet Gateway.
- Pricing Calculator: The in-console Pricing Calculator is not available.
- Pricing Calculator: The Windows Server and SQL Server calculator isn't supported.
- Recommended Actions: The Recommended Actions widget and API on the AWS Billing and Cost Management home page is not available.
- Purchase Orders: The Balance Tracking feature is not available, including associated notifications.
- Purchase Orders: The Purchase Order Retrieval from Procurement Portal feature is not available.
- Bills page: The Download CSV feature is not available.
- Bills page: The Invoice Correction Self-Service feature is not available.
- Bills page: The E-Invoicing delivery status feature is not available.

- Billing Preferences: The Savings Plans and Reserved Instances Group Sharing feature is not available.
- Billing Preferences: The E-Invoicing Self-Service Onboarding feature is not available.
- Cost Categories: The Reserved Instances and Savings Plans group sharing feature using cost categories is not available.

Documentation References

- AWS Billing User Guide documentation
- AWS Cost Management User Guide documentation
- AWS Developer Tools in AWS European Sovereign Cloud
- Service endpoints for AWS European Sovereign Cloud

How Amazon Elastic Container Service (Amazon ECS) differs in AWS European Sovereign Cloud

This topic describes the functionality of Amazon Elastic Container Service (Amazon ECS) in the AWS European Sovereign Cloud Region.

Amazon Elastic Container Service (Amazon ECS) is a fully managed container orchestration service that helps you to more efficiently deploy, manage, and scale containerized applications. It deeply integrates with the AWS environment to provide an easy-to-use solution for running container workloads in the cloud and on premises with advanced security features using Amazon ECS Anywhere.

Service Differences

The following differences apply to Amazon ECS in AWS European Sovereign Cloud:

- Only IPv4 endpoints are supported.
- AWS Fargate platform versions and AMIs are built using region-specific repositories and configurations optimized for the AWS European Sovereign Cloud environment.
- Fargate AMIs in AWS European Sovereign Cloud use specialized certificate bundles and network configurations for secure operation within the sovereign infrastructure.

- You cannot configure Provisioned Rate for Volume Initialization when provisioning Amazon EBS volume from a snapshot.
- You cannot configure Amazon EBS volume for Windows containers.
- Windows containers are not supported on Fargate.
- Only Rolling or External Deployments are supported for ECS services.
- Release notes on Github for an Amazon ECS-optimized AMI release may be published prior to AMIs for that release being available in AWS European Sovereign Cloud.
- Exact source Amazon Linux 2 or Amazon Linux 2023 images used as a base for building Linux variants of the Amazon ECS-optimized AMI in AWS European Sovereign Cloud regions may differ from source images used in other AWS regions.

Example

We recommend that you query the Systems Manager Parameter Store API as the source of truth for Amazon ECS-optimized AMIs metadata in any AWS region, including AWS European Sovereign Cloud regions. Systems Manager Parameter Store reliably provides the most up to date information regarding Amazon ECS-optimized AMI availability and details such as AMI ID, image name, operating system, container agent version, source image name, and runtime version.

Documentation References

- Amazon Elastic Container Service (Amazon ECS) documentation
- AWS Developer Tools in AWS European Sovereign Cloud
- Service endpoints for AWS European Sovereign Cloud

How Amazon API Gateway differs in AWS European Sovereign Cloud

This topic describes the functionality of Amazon API Gateway in the AWS European Sovereign Cloud Region.

Amazon API Gateway enables you to create and deploy your own REST and WebSocket APIs at any scale. You can create robust, secure, and scalable APIs that access Amazon Web Services or other web services, as well as data that's stored in the AWS Cloud. You can create APIs to use in your own client applications, or you can make your APIs available to third-party app developers.

Service Differences

The following differences apply to API Gateway in AWS European Sovereign Cloud:

- HTTP API is not available
- WebSockets API is not available

Documentation References

- Amazon API Gateway documentation
- AWS Developer Tools in AWS European Sovereign Cloud
- Service endpoints for AWS European Sovereign Cloud

How Amazon Athena differs in AWS European Sovereign Cloud

This topic describes the functionality of Amazon Athena in the AWS European Sovereign Cloud Region.

Amazon Athena is an interactive query service that makes it easy to analyze data in Amazon S3 using standard SQL. Athena is serverless, so there is no infrastructure to setup or manage, and you pay only for the queries you run. To get started, simply point to your data in S3, define the schema, and start querying using standard SQL.

Service Differences

The following differences apply to Athena in AWS European Sovereign Cloud:

- Query results reuse is not supported.
- Creating and querying federated data sources is not supported.
- Querying federated data sources registered with AWS Glue Data Catalog with fine-grained access controls is not supported.
- Athena JDBC and ODBC driver download links are not available.
- Capacity reservations is not supported.
- Managed query results is not supported.
- Apache Spark and APIs specific to Apache Spark workgroups are not supported.
- Trusted identity propagation through IAM Identity Center is not supported.

- Amazon Resource Names and endpoints have different values.
- Only signature version 4 signing is supported.
- IPv6 dual stack support is not available.
- Self-service quota increases are not available. You can request a service limit increase through Service Quota console.

Documentation References

- Amazon Athena documentation
- AWS Developer Tools in AWS European Sovereign Cloud
- Service endpoints for AWS European Sovereign Cloud

How AWS Backup differs in AWS European Sovereign Cloud

This topic describes the functionality of AWS Backup in the AWS European Sovereign Cloud Region.

AWS Backup is a fully managed backup service that makes it easy to centralize and automate the backup of data across AWS services in the cloud as well as on premises.

Service Differences

The following differences apply to AWS Backup in AWS European Sovereign Cloud:

- Backup Audit Manager is not available in AWS European Sovereign Cloud (Germany) region.
- Logically air-gapped vault is not available in AWS European Sovereign Cloud (Germany) region.
- Restore testing is not available in AWS European Sovereign Cloud (Germany) region.
- Backup Search is not available in AWS European Sovereign Cloud (Germany) region.
- Windows VSS is not available in AWS European Sovereign Cloud (Germany) region.
- Amazon RDS MAZ (Multi-AZ) is not available in AWS European Sovereign Cloud (Germany) region.
- SAP HANA on EC2 is not available in AWS European Sovereign Cloud (Germany) region.
- Amazon Aurora DSQL is not available in AWS European Sovereign Cloud (Germany) region.
- Amazon Timestream is not available in AWS European Sovereign Cloud (Germany) region.
- AWS Storage Gateway is not available in AWS European Sovereign Cloud (Germany) region.

- Redshift Serverless is not available in AWS European Sovereign Cloud (Germany) region.
- FSx Windows, Lustre, Open ZFS, ONTAP is not available in AWS European Sovereign Cloud (Germany) region.
- Virtual Machines (VMware) is not available in AWS European Sovereign Cloud (Germany) region.
- Amazon DocumentDB is not available in AWS European Sovereign Cloud (Germany) region.
- Amazon Neptune is not available in AWS European Sovereign Cloud (Germany) region.

Documentation References

- AWS Backup documentation
- AWS Developer Tools in AWS European Sovereign Cloud
- Service endpoints for AWS European Sovereign Cloud

How AWS Support Differs for AWS European Sovereign Cloud

This topic describes the functionality of AWS Support in the AWS European Sovereign Cloud Region.

AWS Support provides support for users of Amazon Web Services. AWS Support provides one-on-one, fast-response support channels to help you build and run applications on AWS. Whether you're experimenting with AWS for the first time, running production workloads, or using AWS for mission-critical applications, AWS Support offers the right mix of tools and expertise to help you succeed.

Region Availability

AWS Support is available in the AWS European Sovereign Cloud Region:

- eusc-de-east-1

AWS Support Center

AWS Support Center is your location for AWS Technical Support, which includes access to technical FAQs, service status page, and AWS Support. AWS Support Center is available in the AWS Management Console, with federated access support and enhanced case-management workflows. For more information, see AWS Support Center.

> **Note**
>
> AWS Support Center currently does not integrate with the Classification Management Tool. You must manually add classification markings when using AWS Support Center.

Service Differences

The implementation of AWS Support is different for AWS European Sovereign Cloud Region in the following ways:

- Support operations via the `support` SDK do not include Trusted Advisor features. See AWS Trusted Advisor.
- Email notifications for case communications are not available.
- EventBridge events for Case Management are not available.
- Live Chat functionality is not supported.
- Live Call support is available through a call-back workflow.
- Support is limited to a single region in the AWS European Sovereign Cloud Region.
- Support is available in the following languages: English, French, German, Italian, Portuguese, and Spanish.

Documentation References

- AWS Support documentation
- AWS Developer Tools in AWS European Sovereign Cloud
- Service endpoints for AWS European Sovereign Cloud

How AWS Trusted Advisor differs in AWS European Sovereign Cloud

This topic describes the functionality of AWS Trusted Advisor in the AWS European Sovereign Cloud Region.

AWS Trusted Advisor helps you optimize your AWS environment by providing recommendations across cost optimization, performance, security, resilience, and operational excellence. Trusted

Advisor continuously evaluates your resources using best practice checks and recommends actions to improve your cloud infrastructure.

Service Differences

The following differences apply to Trusted Advisor in AWS European Sovereign Cloud:

- Not all checks are supported in this AWS Region. For a list of available checks, see the Trusted Advisor check reference.
- Trusted Advisor doesn't support sending weekly notification emails for checks at this time.
- The AWS Security Hub integration feature isn't supported.
- The AWS Config integration feature isn't supported.
- Weekly offline check refresh isn't supported. To update check results, log in to the Trusted Advisor console and select **Refresh**.
- When creating an EventBridge rule for Trusted Advisor, the Trusted Advisor filter list is disabled. You can use the **all checks** filter when creating your EventBridge rules.
- Only following APIs are supported in this AWS Region:
  - ListChecks
  - GetRecommendation
  - ListRecommendations
  - ListRecommendationResources
  - BatchUpdateRecommendationResourceExclusion

Documentation References

- AWS Trusted Advisor documentation
- AWS Developer Tools in AWS European Sovereign Cloud
- Service endpoints for AWS European Sovereign Cloud

How AWS Batch differs in AWS European Sovereign Cloud

This topic describes the functionality of AWS Batch in the AWS European Sovereign Cloud Region.

AWS Batch enables you to run batch computing workloads on the AWS Cloud. Batch computing is a common way for developers, scientists, and engineers to access large amounts of compute

resources. AWS Batch removes the undifferentiated heavy lifting of configuring and managing the required infrastructure.

Service Differences

The following differences apply to AWS Batch in AWS European Sovereign Cloud:

- Batch for Sagemaker Training jobs is not available in AWS European Sovereign Cloud (Germany) region.
- Fargate Windows is not available in AWS European Sovereign Cloud (Germany) region.

Documentation References

- AWS Batch documentation
- AWS Developer Tools in AWS European Sovereign Cloud
- Service endpoints for AWS European Sovereign Cloud

How AWS Cloud Map differs in AWS European Sovereign Cloud

This topic describes the functionality of AWS Cloud Map in the AWS European Sovereign Cloud Region.

AWS Cloud Map lets you name and discover your cloud resources.

Service Differences

The following differences apply to AWS Cloud Map in AWS European Sovereign Cloud:

- This service has no differences between the AWS European Sovereign Cloud Region and the standard AWS Regions.

Documentation References

- AWS Cloud Map documentation
- AWS Developer Tools in AWS European Sovereign Cloud
- Service endpoints for AWS European Sovereign Cloud

How AWS CloudFormation differs in AWS European Sovereign Cloud

This topic describes the functionality of AWS CloudFormation in the AWS European Sovereign Cloud Region.

AWS CloudFormation enables you to create and provision AWS infrastructure deployments predictably and repeatedly. It helps you leverage AWS products such as Amazon EC2, Amazon Elastic Block Store, Amazon SNS, Elastic Load Balancing, and Auto Scaling to build highly reliable, highly scalable, cost-effective applications in the cloud without worrying about creating and configuring the underlying AWS infrastructure. AWS CloudFormation enables you to use a template file to create and delete a collection of resources together as a single unit (a stack).

Service Differences

The following differences apply to CloudFormation in AWS European Sovereign Cloud:

- AWS CloudFormation Git Sync is not available in AWS European Sovereign Cloud (Germany) region.

Documentation References

- AWS CloudFormation documentation
- AWS Developer Tools in AWS European Sovereign Cloud
- Service endpoints for AWS European Sovereign Cloud

How AWS CloudTrail differs in AWS European Sovereign Cloud

This topic describes the functionality of AWS CloudTrail in the AWS European Sovereign Cloud Region.

With AWS CloudTrail, you can monitor your AWS deployments in the cloud by getting a history of AWS API calls for your account, including API calls made by using the AWS Management Console, the AWS SDKs, the command line tools, and higher-level AWS services. You can also identify which users and accounts called AWS APIs for services that support CloudTrail, the source IP address from which the calls were made, and when the calls occurred. You can integrate CloudTrail into

applications using the API, automate trail creation for your organization, check the status of your trails, and control how administrators turn CloudTrail logging on and off.

Service Differences

The following differences apply to CloudTrail in AWS European Sovereign Cloud:

- AWS CloudTrail Lake is not available in AWS European Sovereign Cloud (Germany) region.

Documentation References

- AWS CloudTrail documentation
- AWS Developer Tools in AWS European Sovereign Cloud
- Service endpoints for AWS European Sovereign Cloud

How Amazon CloudWatch differs in AWS European Sovereign Cloud

This topic describes the functionality of Amazon CloudWatch in the AWS European Sovereign Cloud Region.

Amazon CloudWatch provides a reliable, scalable, and flexible monitoring solution that you can start using within minutes. You no longer need to set up, manage, and scale your own monitoring systems and infrastructure.

Service Differences

The following differences apply to CloudWatch in AWS European Sovereign Cloud:

- CloudWatch Application Singals is not available
- CloudWatch RUM is not available

Documentation References

- Amazon CloudWatch documentation
- AWS Developer Tools in AWS European Sovereign Cloud

- Service endpoints for AWS European Sovereign Cloud

How Amazon CloudWatch Logs differs in AWS European Sovereign Cloud

This topic describes the functionality of Amazon CloudWatch Logs in the AWS European Sovereign Cloud Region.

You can use Amazon CloudWatch Logs to monitor, store, and access your log files from EC2 instances and other sources.

Service Differences

The following differences apply to Amazon CloudWatch Logs in AWS European Sovereign Cloud:

- Log pattern analysis is not available.
- Data protection with masking is not available.
- Field indexing is not available.
- Log transformation is not available.
- Using OpenSearch SQL or OpenSearch PPL to query logs is not available.
- Vended log dashboards powered by Amazon OpenSearch Service are not available.
- Live Tail is not available.
- If you use the `awslogs` package, be sure that the region is set to eusc-de-east-1. For more information, see Quick Start: Install and Configure the CloudWatch Logs Agent on a Running EC2 Instance.
- Creating a subscription to stream logs data to Amazon OpenSearch Service is not supported.
- Using conditional statements in IAM policies for subscription destinations is not supported.
- Regex filter pattern syntax for metric filters, subscription filters, filter log events, and Live Tail is not supported.
- Amazon Resource Names in AWS European Sovereign Cloud and endpoints have different values.
- Only signature version 4 signing is supported.

Documentation References

- Amazon CloudWatch documentation
- AWS Developer Tools in AWS European Sovereign Cloud
- Service endpoints for AWS European Sovereign Cloud

How AWS CodeDeploy differs in AWS European Sovereign Cloud

This topic describes the functionality of AWS CodeDeploy in the AWS European Sovereign Cloud Region.

AWS CodeDeploy is a deployment service that enables developers to automate the deployment of applications to instances and to update the applications as required.

Service Differences

The following differences apply to CodeDeploy in AWS European Sovereign Cloud:

- This service has no differences between the AWS European Sovereign Cloud Region and the standard AWS Regions.

Documentation References

- AWS CodeDeploy documentation
- AWS Developer Tools in AWS European Sovereign Cloud
- Service endpoints for AWS European Sovereign Cloud

How AWS Compute Optimizer differs in AWS European Sovereign Cloud

This topic describes the functionality of AWS Compute Optimizer in the AWS European Sovereign Cloud Region.

AWS Compute Optimizer recommends optimal AWS compute resources for your workloads to reduce costs and improve performance. Compute Optimizer uses machine learning to analyze your historical utilization metrics to help you choose the optimal AWS resource configuration.

Service Differences

The following differences apply to AWS Compute Optimizer in AWS European Sovereign Cloud:

- The feature to integrate with Third Party Application Performance Monitoring metrics is not available.
- Recommendations for Reserved Instance and Savings Plan discounts are not supported.
- The External metrics ingestion feature is not available.
- Recommendations for RDS databases are not supported.
- Recommendations for SQL server licenses are not supported.

Documentation References

- AWS Compute Optimizer documentation
- AWS Developer Tools in AWS European Sovereign Cloud
- Service endpoints for AWS European Sovereign Cloud

How AWS Config differs in AWS European Sovereign Cloud

This topic describes the functionality of AWS Config in the AWS European Sovereign Cloud Region.

AWS Config provides a detailed view of the resources associated with your AWS account, including how they are configured, how they are related to one another, and how the configurations and their relationships have changed over time.

Service Differences

The following differences apply to AWS Config in AWS European Sovereign Cloud:

- AWS Config Rules support for Proactive Evaluation mode is not available in the AWS European Sovereign Cloud.

Documentation References

- AWS Config documentation
- AWS Developer Tools in AWS European Sovereign Cloud
- Service endpoints for AWS European Sovereign Cloud

How AWS DataSync differs in AWS European Sovereign Cloud

This topic describes the functionality of AWS DataSync in the AWS European Sovereign Cloud Region.

AWS DataSync is an online data transfer service that simplifies data migration and helps you quickly, easily, and securely transfer your file or object data to, from, and between AWS storage services.

Service Differences

The following differences apply to DataSync in AWS European Sovereign Cloud:

- This service has no differences between the AWS European Sovereign Cloud Region and the standard AWS Regions.

Documentation References

- AWS DataSync documentation
- AWS Developer Tools in AWS European Sovereign Cloud
- Service endpoints for AWS European Sovereign Cloud

How AWS Direct Connect differs in AWS European Sovereign Cloud

This topic describes the functionality of AWS Direct Connect in the AWS European Sovereign Cloud Region.

AWS Direct Connect establishes a dedicated network connection between your on-premises network and AWS. With this connection in place, you can create virtual interfaces directly to the

AWS Cloud, bypassing your internet service provider. This can provide a more consistent network experience.

Service Differences

The following differences apply to Direct Connect in AWS European Sovereign Cloud:

- This service has no differences between the AWS European Sovereign Cloud Region and the standard AWS Regions.

Documentation References

- AWS Direct Connect documentation
- AWS Developer Tools in AWS European Sovereign Cloud
- Service endpoints for AWS European Sovereign Cloud

How AWS Directory Service differs in AWS European Sovereign Cloud

This topic describes the functionality of AWS Directory Service in the AWS European Sovereign Cloud Region.

AWS Directory Service provides multiple ways to set up and run Microsoft Active Directory with other AWS services such as Amazon EC2, Amazon RDS for SQL Server, FSx for Windows File Server, and AWS IAM Identity Center. AWS Directory Service for Microsoft Active Directory, also known as AWS Managed Microsoft AD, enables your directory-aware workloads and AWS resources to use a managed Active Directory in the AWS Cloud.

Service Differences

The following differences apply to Directory Service in AWS European Sovereign Cloud:

The following directory types are not currently supported:

- Simple AD

The following AWS Managed Microsoft AD features are not currently supported:

- Domain Controller Metrics in CloudWatch
- User and Group Management with the AWS Management Console, AWS CLI, or AWS Tools for PowerShell
- Multi-region replication
- AWS Managed Microsoft AD (Hybrid Edition)

The following AWS apps and services are not currently supported by AWS Directory Service:

- AWS PrivateLink – Interface Amazon VPC endpoints using AWS PrivateLink are not supported in this region.

Documentation References

- AWS Directory Service documentation
- AWS Developer Tools in AWS European Sovereign Cloud
- Service endpoints for AWS European Sovereign Cloud

How AWS Database Migration Service (AWS DMS) differs in AWS European Sovereign Cloud

This topic describes the functionality of AWS Database Migration Service (AWS DMS) in the AWS European Sovereign Cloud Region.

AWS Database Migration Service (AWS DMS) is a web service you can use to migrate data from your database that is on-premises, on an Amazon Relational Database Service (Amazon RDS) DB instance, or in a database on an Amazon Elastic Compute Cloud (Amazon EC2) instance to a database on an AWS service. These services can include a database on Amazon RDS or a database on an Amazon EC2 instance. You can also migrate a database from an AWS service to an on-premises database. You can migrate between source and target endpoints that use the same database engine, such as from an Oracle database to an Oracle database. You can also migrate between source and target endpoints that use different database engines, such as from an Oracle database to a PostgreSQL database.

Service Differences

The following differences apply to AWS DMS in AWS European Sovereign Cloud:

- AWS DMS Homogeneous Migrations are not available in the AWS European Sovereign Cloud
- AWS DMS Schema Conversion is not available in the AWS European Sovereign Cloud
- AWS DMS Fleet Advisor is not available in the AWS European Sovereign Cloud
- AWS DMS Serverless is not available in the AWS European Sovereign Cloud
- For Provisioned DMS in the AWS European Sovereign Cloud, DMS 3.6.1 is not available. This means in the AWS European Sovereign Cloud:
  - DMS Data Resync is not available
  - IAM database authentication for MariaDB, MySQL, and PostgreSQL is not available
  - Support for PostgreSQL 17 is not available
  - PostgreSQL Read Replica Support for Change Data Capture (CDC) Replication is not available

Documentation References

- AWS Database Migration Service (AWS DMS) documentation
- AWS Developer Tools in AWS European Sovereign Cloud
- Service endpoints for AWS European Sovereign Cloud

How Amazon DocumentDB (with MongoDB compatibility) differs in AWS European Sovereign Cloud

This topic describes the functionality of Amazon DocumentDB (with MongoDB compatibility) in the AWS European Sovereign Cloud Region.

Amazon DocumentDB (with MongoDB compatibility) is a fast, scalable, highly available, and fully managed document database service that supports MongoDB workloads. As a document database, Amazon DocumentDB makes it easy to store, query, and index JSON data.

Amazon DocumentDB is a non-relational database service designed from the ground-up to give you the performance, scalability, and availability you need when operating mission-critical MongoDB workloads at scale. In Amazon DocumentDB, the storage and compute are decoupled,

allowing each to scale independently. You can increase the read capacity to millions of requests per second by adding up to 15 low latency read replicas in minutes, regardless of the size of your data.

Service Differences

The following differences apply to DocumentDB in AWS European Sovereign Cloud:

- Global Clusters are not supported.
- Amazon DocumentDB engine version 3.6 is not supported.
- Amazon DocumentDB elastic clusters are not supported.
- R4 and R5 instance classes are not supported.

Documentation References

- Amazon DocumentDB (with MongoDB compatibility) documentation
- AWS Developer Tools in AWS European Sovereign Cloud
- Service endpoints for AWS European Sovereign Cloud

How Amazon DynamoDB differs in AWS European Sovereign Cloud

This topic describes the functionality of Amazon DynamoDB in the AWS European Sovereign Cloud Region.

Amazon DynamoDB is a fully managed NoSQL database service that provides fast and predictable performance with seamless scalability. You can use Amazon DynamoDB to create a database table that can store and retrieve any amount of data, and serve any level of request traffic. Amazon DynamoDB automatically spreads the data and traffic for the table over a sufficient number of servers to handle the request capacity specified by the customer and the amount of data stored, while maintaining consistent and fast performance.

Service Differences

The following differences apply to DynamoDB in AWS European Sovereign Cloud:

- DynamoDB Accelerator (DAX), NoSQL Workbench, DDB Local, PartiQL API actions, Global Tables and Cross-Region Restore.

- DynamoDB zero-ETL integration with Amazon SageMaker and Amazon S3 Tables is not available.
- DynamoDB zero-ETL integration with Amazon OpenSearch Service is not available.

Documentation References

- Amazon DynamoDB documentation
- AWS Developer Tools in AWS European Sovereign Cloud
- Service endpoints for AWS European Sovereign Cloud

How Amazon Elastic Block Store (Amazon EBS) differs in AWS European Sovereign Cloud

This topic describes the functionality of Amazon Elastic Block Store (Amazon EBS) in the AWS European Sovereign Cloud Region.

Amazon Elastic Block Store (Amazon EBS) provides scalable, high-performance block-storage resources that you can use with your Amazon EC2 instances.

Service Differences

The following differences apply to Amazon EBS in AWS European Sovereign Cloud:

- Fault testing on Amazon EBS is not available in AWS European Sovereign Cloud (Germany) region.
- Recycle Bin for EBS Volumes is not available in AWS European Sovereign Cloud (Germany) Region
- Time-based copies for Amazon EBS snapshots and EBS-backed AMIs is not available in AWS European Sovereign Cloud (Germany) Region.

Documentation References

- Amazon Elastic Block Store (Amazon EBS) documentation
- AWS Developer Tools in AWS European Sovereign Cloud
- Service endpoints for AWS European Sovereign Cloud

How Amazon Elastic Compute Cloud (Amazon EC2) differs in AWS European Sovereign Cloud

This topic describes the functionality of Amazon Elastic Compute Cloud (Amazon EC2) in the AWS European Sovereign Cloud Region.

Amazon Elastic Compute Cloud (Amazon EC2) is a web service that provides resizable computing capacity—literally, servers in Amazon's data centers—that you use to build and host your software systems.

Service Differences

The following differences apply to Amazon EC2 in AWS European Sovereign Cloud:

- Reserved Instances are not supported.
- Reserved Instance Marketplace is not supported.
- Capacity Blocks for ML is not supported.
- AMD Secure Encrypted Virtualization-Secure Nested Paging (SEV-SNP) is not supported.
- Amazon Time Sync Service's PTP hardware clocks are not available
- Nitro enclaves are not supported.
- Nitro Trusted Platform Module (NitroTPM) is not supported.
- Credential Guard for Windows instances is not supported.

Networking Differences

- Flexible ENA queues are not supported.
- EC2 Instance Connect is not supported.

How VM Import/Export Differs for AWS European Sovereign Cloud

VM Import/Export is different for AWS ISOE Region in the following ways:

- You can use the AWS VM Import tools to import VM images from your local environment and convert them into Amazon EC2 instances. For more information, see Importing a VM into Amazon EC2.

- You can import Microsoft Windows VMs that use the Bring Your Own License (BYOL) model. First, create a case in AWS Support Center and request to be allowlisted for Windows BYOL.
- `DescribeConversionTasks`, `ImportInstance`, and `ImportVolume` are not supported.

Documentation References

- Amazon Elastic Compute Cloud (Amazon EC2) documentation
- AWS Developer Tools in AWS European Sovereign Cloud
- Service endpoints for AWS European Sovereign Cloud

How Amazon Elastic Container Registry (Amazon ECR) differs in AWS European Sovereign Cloud

This topic describes the functionality of Amazon Elastic Container Registry (Amazon ECR) in the AWS European Sovereign Cloud Region.

Amazon Elastic Container Registry (Amazon ECR) is a fully managed container registry offering high-performance hosting, so you can reliably deploy application images and artifacts anywhere.

Service Differences

The following differences apply to Amazon ECR in AWS European Sovereign Cloud:

- Pull through cache rules are not supported.
- Amazon ECR Enhanced scanning is not supported.

Documentation References

- Amazon Elastic Container Registry (Amazon ECR) documentation
- AWS Developer Tools in AWS European Sovereign Cloud
- Service endpoints for AWS European Sovereign Cloud

How Amazon Elastic File System (Amazon EFS) differs in AWS European Sovereign Cloud

This topic describes the functionality of Amazon Elastic File System (Amazon EFS) in the AWS European Sovereign Cloud Region.

Amazon EFS is a simple, serverless, elastic, set-and-forget file system that automatically grows and shrinks as you add and remove files with no need for management or provisioning. You can use Amazon EFS with Amazon EC2, AWS Lambda, Amazon ECS, Amazon EKS and other AWS compute instances, or with on-premises servers.

Service Differences

The following differences apply to Amazon EFS in AWS European Sovereign Cloud:

- EFS One Zone file systems and replicating file systems across accounts are not available in the AWS European Sovereign Cloud (Germany) region.

Documentation References

- Amazon Elastic File System (Amazon EFS) documentation
- AWS Developer Tools in AWS European Sovereign Cloud
- Service endpoints for AWS European Sovereign Cloud

How Amazon Elastic Kubernetes Service (Amazon EKS) differs in AWS European Sovereign Cloud

This topic describes the functionality of Amazon Elastic Kubernetes Service (Amazon EKS) in the AWS European Sovereign Cloud Region.

Amazon Elastic Kubernetes Service (Amazon EKS) is a managed service that makes it easy for you to run Kubernetes on AWS without needing to install and operate your own Kubernetes clusters.

Service Differences

The following differences apply to Amazon EKS in AWS European Sovereign Cloud:

- Panorama is not available in AWS European Sovereign Cloud (Germany) region.
- Amazon EKS Anywhere Frontend subscription service is not available in AWS European Sovereign Cloud (Germany) region.
- EKS support for Fargate is not available in AWS European Sovereign Cloud (Germany) region.

Documentation References

- Amazon Elastic Kubernetes Service (Amazon EKS) documentation
- AWS Developer Tools in AWS European Sovereign Cloud
- Service endpoints for AWS European Sovereign Cloud

How Amazon ElastiCache differs in AWS European Sovereign Cloud

Amazon ElastiCache makes it easy to set up, manage, and scale distributed in-memory cache environments in the AWS Cloud. It provides a high-performance, resizable, and cost-effective in-memory cache, while removing the complexity associated with deploying and managing a distributed cache environment.

How Amazon ElastiCache differs for AWS European Sovereign Cloud

The implementation of ElastiCache is different for AWS European Sovereign Cloud in the following ways:

- The following are the supported Amazon Elastic Compute Cloud instance types for ElastiCache:

Instance Family	Instance Types
General purpose	`cache.m7g.large |cache.m7g.xlarge |cache.m7g.2xlarge |cache.m7g .4xlarge |cache.m7g.8xlarge | cache.m7g.12xlarge |cache.m7g .16xlarge`

Instance Family	Instance Types
	`cache.t4g.micro` | `cache.t4g.small` | `cache.t4g.medium`
Memory-optimized	`cache.r7g.large` | `cache.r7g.xlarge` | `cache.r7g.2xlarge` | `cache.r7g.4xlarge` | `cache.r7g.8xlarge` | `cache.r7g.12xlarge` | `cache.r7g.16xlarge`

- The following are the supported ElastiCache versions for Valkey, Redis OSS, and Memcached engines:

Engine	ElastiCache Versions
Valkey	`7.2.6` | `8.0` | `8.1`
Redis OSS	`7.1`
Memcached	`1.6.17` | `1.6.22`

- The following ElastiCache features are not available:
  - Global Datastore
  - Data tiering

Documentation References

- Amazon ElastiCache documentation
- AWS Developer Tools in AWS European Sovereign Cloud
- Service endpoints for AWS European Sovereign Cloud

How Elastic Load Balancing (ELB) differs in AWS European Sovereign Cloud

This topic describes the functionality of Elastic Load Balancing (ELB) in the AWS European Sovereign Cloud Region.

Elastic Load Balancing automatically distributes your incoming traffic across multiple targets, such as EC2 instances, containers, and IP addresses, in one or more Availability Zones. It monitors the health of its registered targets and routes traffic only to the healthy targets. You can select the type of load balancer that best suits your needs.

Service Differences

The following differences apply to ELB in AWS European Sovereign Cloud:

- ALB Trust Store, ALB mTLS are not supported.
- Outpost is not supported.
- Load Balancer Capacity Unit (LCU) Reservation differs by product:
  - ALB: enabled.
  - NLB and GWLB: not enabled.

Documentation References

- Elastic Load Balancing (ELB) documentation
- AWS Developer Tools in AWS European Sovereign Cloud
- Service endpoints for AWS European Sovereign Cloud

How Amazon EMR differs in AWS European Sovereign Cloud

Amazon EMR helps you analyze and process vast amounts of data by distributing the computational work across a cluster of virtual servers running in the AWS cloud. The cluster is managed using an open-source framework called Hadoop. Amazon EMR lets you focus on processing and analyzing your data without having to worry about time-consuming set up, management, and tuning of Hadoop clusters or the compute capacity they rely on.

Topics

Region Availability

Amazon EMR is available in the AWS European Sovereign Cloud Region:

- eusc-de-east-1

How Amazon EMR Differs for AWS European Sovereign Cloud

The implementation of Amazon EMR is different for AWS European Sovereign Cloud in the following ways:

AWS European Sovereign Cloud Specific Information

Release Versions

The following release versions are available in AWS European Sovereign Cloud:

7.x supported versions

The following 7.x release versions are available in AWS European Sovereign Cloud:

- 7.8.0

Additional 7.x release versions will be made available in subsequent updates.

6.x supported versions

The following 6.x release versions are available in AWS European Sovereign Cloud:

- 6.15.0

Additional 6.x release versions will be made available in subsequent updates.

5.x supported versions

The following 5.x release versions are available in AWS European Sovereign Cloud:

- 5.36.2

Additional 5.x release versions will be made available in subsequent updates.

To determine the current available release versions in AWS European Sovereign Cloud, use the following AWS CLI command:

```
aws emr list-release-labels --region eusc-de-east-1
```

This command retrieves the release labels of Amazon EMR services available in the region where the API is called.

Instance Types

Amazon EMR in AWS European Sovereign Cloud works to support a wide array of EC2 instance types that are available in the region, though there may be some lag between EC2 instance type availability and EMR support. Instance availability is subject to capacity and demand in the specified region and Availability Zone.

For more information about EC2 instance types, see EC2 Instance Types.

To get the most current list of supported instance types for EMR in AWS European Sovereign Cloud, you can use the AWS CLI command `list-supported-instance-types`. For more information, see list-supported-instance-types in the *AWS CLI Command Reference*.

For example, to list supported instance types for a specific EMR release version:

```
 aws emr list-supported-instance-types --release-label emr-6.15.0 --region eusc-de-
east-1
```

To determine which instance types are currently supported by EC2 in the region, use the following AWS CLI command:

```
 aws ec2 describe-instance-types --region eusc-de-east-1
```

This command describes the available instance types in the current region and can be filtered as needed.

General Differences for AWS European Sovereign Cloud

- Managed scaling is not available.

- EMR Serverless is not available.
- EMR on EKS is not available.
- EMR Notebooks is not available.
- Docker containers are not available.

Documentation References

- Amazon EMR documentation
- AWS Developer Tools in AWS European Sovereign Cloud
- Service endpoints for AWS European Sovereign Cloud

How Amazon End User Messaging differs in AWS European Sovereign Cloud

This topic describes the functionality of Amazon End User Messaging in the AWS European Sovereign Cloud Region.

AWS End User Messaging is an application-to-person (A2P) SMS, MMS, and voice messaging service which provides the global scale, resiliency, and flexibility required to deliver SMS messaging in any web, mobile, or business applications.

Service Differences

The following differences apply to Amazon End User Messaging in AWS European Sovereign Cloud:

- AWS End User Messaging Voice is not available
- AWS End User Messaging Social is not available
- AWS End User Messaging push notifications are not available
- Amazon Pinpoint push notifications are not available

Documentation References

- AWS End User Messaging SMS documentation
- AWS Developer Tools in AWS European Sovereign Cloud

- Service endpoints for AWS European Sovereign Cloud

How Amazon EventBridge differs in AWS European Sovereign Cloud

This topic describes the functionality of Amazon EventBridge in the AWS European Sovereign Cloud Region.

Amazon EventBridge is a serverless event bus service that makes it easy to connect your applications with data from a variety of sources. EventBridge delivers a stream of real-time data from your own applications, software-as-a-service (SaaS) applications, and AWS services and routes that data to targets such as AWS Lambda. You can set up routing rules to determine where to send your data to build application architectures that react in real time to all of your data sources. EventBridge enables you to build event-driven architectures that are loosely coupled and distributed.

Service Differences

The following differences apply to EventBridge in AWS European Sovereign Cloud:

1. For Amazon EventBridge API Destinations, the Private APIs feature is unavailable in this region.
2. For Amazon EventBridge Schemas, the Schema Discovery feature is unavailable in this region.

Documentation References

- Amazon EventBridge documentation
- AWS Developer Tools in AWS European Sovereign Cloud
- Service endpoints for AWS European Sovereign Cloud

How Amazon Data Firehose differs in AWS European Sovereign Cloud

This topic describes the functionality of Amazon Data Firehose in the AWS European Sovereign Cloud Region.

Collect, process, and analyze real-time, streaming data so you can get timely insights and react quickly to new information.

Service Differences

The following differences apply to Firehose in AWS European Sovereign Cloud:

- Secrets Manager integration is not supported in AWS European Sovereign Cloud (Germany) region.
- Splunk Destination is not available in AWS European Sovereign Cloud (Germany) region.

Documentation References

- Amazon Data Firehose documentation
- AWS Developer Tools in AWS European Sovereign Cloud
- Service endpoints for AWS European Sovereign Cloud

How Amazon FSx differs in AWS European Sovereign Cloud

Amazon FSx makes it easy and cost effective to launch and run popular file systems. With Amazon FSx, you can leverage the rich feature sets and fast performance of widely-used open source and commercially-licensed file systems, while avoiding time-consuming administrative tasks like hardware provisioning, software configuration, patching, and backups. It provides cost-efficient capacity and high levels of reliability, and it integrates with other AWS services so that you can manage and use the file systems in cloud-native ways. Amazon FSx let you choose between four widely-used file systems: Lustre, NetApp ONTAP, OpenZFS, and Windows File Server.

Service Differences

- For Amazon FSx for Lustre, the following features aren't available:
  - Elastic Fabric Adapter (EFA)
  - HDD storage class
  - Intelligent-Tiering storage class
  - Scratch deployment type
- For Amazon FSx for NetApp ONTAP, the following features aren't available:

  - Scale-out deployment type
- For Amazon FSx for OpenZFS, the following features aren't available:
  - Intelligent-Tiering storage class
  - Amazon S3 access points
- Amazon File Cache is not available.

Documentation References

- Amazon FSx documentation
- AWS Developer Tools in AWS European Sovereign Cloud
- Service endpoints for AWS European Sovereign Cloud

How AWS Glue differs in AWS European Sovereign Cloud

This topic describes the functionality of AWS Glue in the AWS European Sovereign Cloud Region.

AWS Glue is a scalable, serverless data integration service that makes it easy to discover, prepare, and combine data for analytics, machine learning, and application development.

Service Differences

The following differences apply to AWS Glue in AWS European Sovereign Cloud:

- This service has no differences between the AWS European Sovereign Cloud Region and the standard AWS Regions.

Documentation References

- AWS Glue documentation
- AWS Developer Tools in AWS European Sovereign Cloud
- Service endpoints for AWS European Sovereign Cloud

How Amazon GuardDuty differs in AWS European Sovereign Cloud

This topic describes the functionality of Amazon GuardDuty in the AWS European Sovereign Cloud Region.

Amazon GuardDuty is a continuous security monitoring service. Amazon GuardDuty can help to identify unexpected and potentially unauthorized or malicious activity in your AWS environment.

Service Differences

The following differences apply to GuardDuty in AWS European Sovereign Cloud:

- Malware Protection for EC2 and its associated finding types and APIs
- Malware Protection for S3 and its associated finding types and APIs
- RDS Protection and its associated finding types and APIs

Documentation References

- Amazon GuardDuty documentation
- AWS Developer Tools in AWS European Sovereign Cloud
- Service endpoints for AWS European Sovereign Cloud

How AWS Health Dashboard differs in AWS European Sovereign Cloud

This topic describes the functionality of AWS Health Dashboard in the AWS European Sovereign Cloud Region.

AWS Health provides personalized information about events that can affect your AWS infrastructure, guides you through scheduled changes, and accelerates the troubleshooting of issues that affect your AWS resources and accounts.

Service Differences

The following differences apply to Health Dashboard in AWS European Sovereign Cloud:

- This service has no differences between the AWS European Sovereign Cloud Region and the standard AWS Regions.

Documentation References

- AWS Health Dashboard documentation
- AWS Developer Tools in AWS European Sovereign Cloud
- Service endpoints for AWS European Sovereign Cloud

How IAM and IAM Access Analyzer differs in AWS European Sovereign Cloud

This topic describes the functionality of IAM and IAM Access Analyzer in the AWS European Sovereign Cloud Region.

AWS Identity and Access Management (IAM) is a web service for securely controlling access to AWS services. With IAM, you can centrally manage users, security credentials such as access keys, and permissions that control which AWS resources users and applications can access.

Service Differences

The following differences apply to IAM and IAM Access Analyzer in AWS European Sovereign Cloud:

- There is no AWS STS global endpoint in the AWS European Sovereign Cloud Region. AWS provides Regional AWS STS endpoints.
- Only some AWS services support service-linked roles in the AWS European Sovereign Cloud Region. For information about which services support using service-linked roles, see AWS Services That Work with IAM and look for the services that have Yes in the Service-Linked Role column. To learn whether the service supports service-linked roles in a specific region, choose the Yes link to view the service-linked role documentation for that service.
- Amazon Resource Names (ARNs) and endpoints have different values.
- Service Quotas integration - IAM does not support Service Quotas in the AWS European Sovereign Cloud Region.
- Independent Service Vendor Delegated Access support are not available in the AWS European Sovereign Cloud Region.

- JWT assertions are not available in the AWS European Sovereign Cloud Region.
- AWS Sign-In doesn't support PrivateLink in the AWS European Sovereign Cloud Region.

Documentation References

- IAM and IAM Access Analyzer documentation
- AWS Developer Tools in AWS European Sovereign Cloud
- Service endpoints for AWS European Sovereign Cloud

How IAM Roles Anywhere differs in AWS European Sovereign Cloud

This topic describes the functionality of IAM Roles Anywhere in the AWS European Sovereign Cloud Region.

You can use AWS Identity and Access Management (IAM) Roles Anywhere to obtain temporary security credentials in IAM for workloads such as servers, containers, and applications that run outside of AWS. Your workloads can use the same IAM policies and IAM roles that you use with AWS applications to access AWS resources.

Service Differences

The following differences apply to IAM Roles Anywhere in AWS European Sovereign Cloud:

- Amazon Resource Names (ARNs) and endpoints have different values.
- There is no IAM Roles Anywhere dual-stack endpoint in AWS European Sovereign Cloud.
- There is no AWS STS global endpoint in AWS European Sovereign Cloud. AWS provides Regional AWS STS endpoints.
- AWS X-Ray is not currently integrated with IAM Roles Anywhere.

Credential Helper Downloads

The AWS signing helper for IAM Roles Anywhere is available for download from the following URLs:

X86_64 Architecture

- Linux ALinux2
- Linux Amzn2023
- Windows Server2019
- macOS Sonoma

ARM64/Aarch64 Architecture

- Linux ALinux2
- Linux Amzn2023
- macOS Sonoma

Documentation References

- IAM Roles Anywhere documentation
- AWS Developer Tools in AWS European Sovereign Cloud
- Service endpoints for AWS European Sovereign Cloud

How EC2 Image Builder differs in AWS European Sovereign Cloud

EC2 Image Builder is a fully-managed AWS service that makes it easier to automate the creation, management, and deployment of customized, secure, and up-to-date “golden” server images that are pre-installed and pre-configured with software and settings to meet specific IT standards.

Service Differences

The following differences apply to Image Builder in AWS European Sovereign Cloud:

- Image Builder doesn’t support CIS Hardened Images or the CIS Hardening component from the Center for Internet Security.
- Image Builder doesn’t support Dedicated Instances or Dedicated Hosts.
- Image Builder doesn’t support macOS images.

The following Image Builder features are not supported in AWS European Sovereign Cloud:

- Common vulnerability (CVE) findings
- Image lifecycle policies
- AWS Marketplace Software components
- ISO disk file import

Documentation References

- EC2 Image Builder documentation
- AWS Developer Tools in AWS European Sovereign Cloud
- Service endpoints for AWS European Sovereign Cloud

How Amazon Kinesis Data Streams differs in AWS European Sovereign Cloud

This topic describes the functionality of Amazon Kinesis Data Streams in the AWS European Sovereign Cloud Region.

Amazon Kinesis makes it easy to collect, process, and analyze video and data streams in real time.

Service Differences

The following differences apply to Kinesis Data Streams in AWS European Sovereign Cloud:

- Amazon Kinesis Data Streams does not support record sizes > 1MiB in the AWS European Sovereign Cloud Region.

Documentation References

- Amazon Kinesis Data Streams documentation
- AWS Developer Tools in AWS European Sovereign Cloud
- Service endpoints for AWS European Sovereign Cloud

How AWS Key Management Service (AWS KMS) differs in AWS European Sovereign Cloud

This topic describes the functionality of AWS Key Management Service (AWS KMS) in the AWS European Sovereign Cloud Region.

AWS Key Management Service (AWS KMS) is an encryption and key management service scaled for the cloud. AWS KMS keys and functionality are used by other AWS services, and you can use them to protect data in your own applications that use AWS.

Service Differences

The following differences apply to AWS KMS in AWS European Sovereign Cloud:

- The AWS CloudHSM key stores feature is not available in the AWS European Sovereign Cloud Region.

Documentation References

- AWS Key Management Service (AWS KMS) documentation
- AWS Developer Tools in AWS European Sovereign Cloud
- Service endpoints for AWS European Sovereign Cloud

How AWS Lake Formation differs in AWS European Sovereign Cloud

This topic describes the functionality of AWS Lake Formation in the AWS European Sovereign Cloud Region.

AWS Lake Formation is a managed service that makes it easy to set up, secure, and manage your data lakes. Lake Formation helps you discover your data sources and then catalog, cleanse, and transform the data. You can use Lake Formation to secure the data and ingest it into an Amazon Simple Storage Service (Amazon S3) data lake.

Service Differences

The following differences apply to Lake Formation in AWS European Sovereign Cloud:

- Creating multi-level catalogs is not supported
- AWS IAM Identity Center integration with Lake Formation is not available
- LF-Tag expressions for metadata access control are not available
- Apache Iceberg table optimization is not supported
- Crawlers do not support writing Delta Lake table metadata to the AWS Glue Data Catalog
- Amazon SageMaker Lakehouse unified data connectivity is not available for crawlers
- Creating Amazon Redshift federated catalogs is not available
- Support for AWS PrivateLink is not available

Documentation References

- AWS Lake Formation documentation
- AWS Developer Tools in AWS European Sovereign Cloud
- Service endpoints for AWS European Sovereign Cloud

How AWS Lambda differs in AWS European Sovereign Cloud

This topic describes the functionality of AWS Lambda in the AWS European Sovereign Cloud Region.

With AWS Lambda, you can run code without provisioning or managing servers. You pay only for the compute time that you consume—there's no charge when your code isn't running. You can run code for virtually any type of application or backend service—all with zero administration. Just upload your code and Lambda takes care of everything required to run and scale your code with high availability.

Service Differences

The following differences apply to Lambda in AWS European Sovereign Cloud:

- Response Streaming is not available in AWS European Sovereign Cloud (Germany) region.
- Lambda support for AWS PrivateLink is not available in AWS European Sovereign Cloud (Germany) region.
- Function URLs is not available in AWS European Sovereign Cloud (Germany) region.

- The following event sources are not available in AWS European Sovereign Cloud (Germany) region: Apache Kafka Amazon MQ for ActiveMQ and Rabbit MQ Amazon DocumentDB
- X-Ray Integration is not available in AWS European Sovereign Cloud (Germany) region.

Documentation References

- AWS Lambda documentation
- AWS Developer Tools in AWS European Sovereign Cloud
- Service endpoints for AWS European Sovereign Cloud

How AWS License Manager differs in AWS European Sovereign Cloud

This topic describes the functionality of AWS License Manager in the AWS European Sovereign Cloud Region.

AWS License Manager streamlines the process of bringing software vendor licenses to the AWS Cloud. As you build out cloud infrastructure on AWS, you can save costs by repurposing your existing license inventory for use with cloud resources. License Manager reduces the risk of licensing overages and penalties with inventory tracking that is tied directly to AWS resources.

Service Differences

The following differences apply to License Manager in AWS European Sovereign Cloud:

- Server Manageability is not available in AWS European Sovereign Cloud (Germany) region.
- User-based Subscriptions is not available in AWS European Sovereign Cloud (Germany) region.
- Linux Subscriptions is not available in AWS European Sovereign Cloud (Germany) region.

Documentation References

- AWS License Manager documentation
- AWS Developer Tools in AWS European Sovereign Cloud
- Service endpoints for AWS European Sovereign Cloud

How Amazon Linux differs in AWS European Sovereign Cloud

This topic describes the functionality of Amazon Linux in the AWS European Sovereign Cloud Region.

Service Differences

The following differences apply to Amazon Linux in AWS European Sovereign Cloud:

- This service has no differences between the AWS European Sovereign Cloud Region and the standard AWS Regions.

Documentation References

- Amazon Linux documentation
- AWS Developer Tools in AWS European Sovereign Cloud
- Service endpoints for AWS European Sovereign Cloud

How AWS Marketplace differs in AWS European Sovereign Cloud

This topic describes the functionality of AWS Marketplace in the AWS European Sovereign Cloud Region.

AWS Marketplace is an online store where you can buy or sell software that runs on Amazon Web Services.

Service Differences

The following differences apply to AWS Marketplace in AWS European Sovereign Cloud:

Container Features

- Container product type Self-Service listings are not available for the AWS European Sovereign Cloud (Germany) region.
- Container product type private offers are not available for the AWS European Sovereign Cloud (Germany) region.

- Container product type Consulting Partner Private Offer (CPPO) feature is not available for the AWS European Sovereign Cloud (Germany) region.
- Containers Quick Launch feature is not available for the AWS European Sovereign Cloud (Germany) region.
- EKS add-on (Sleek) feature is not available for the AWS European Sovereign Cloud (Germany) region.

Container Pricing Models

- Bring Your Own License (BYOL) pricing for Containers is not available for the AWS European Sovereign Cloud (Germany) region.
- Free trials for Container product types are not available for the AWS European Sovereign Cloud (Germany) region.
- Hourly pricing for Containers is not available for the AWS European Sovereign Cloud (Germany) region.
- Hourly plus long-term contract pricing for Containers is not available for the AWS European Sovereign Cloud (Germany) region.
- Custom metered pricing for Containers is not available for the AWS European Sovereign Cloud (Germany) region.
- Contract pricing using AWS License Manager for Containers is not available for the AWS European Sovereign Cloud (Germany) region.
- Flexible payment scheduler for Containers is not available for the AWS European Sovereign Cloud (Germany) region.

AMI Pricing Models

- Custom metered pricing is not available in the AWS European Sovereign Cloud (Germany) region.
- Contracts pricing using AWS License Manager for AMI is not available in the AWS European Sovereign Cloud (Germany) region.
- Flexible payment scheduler for AMI is not available in the AWS European Sovereign Cloud (Germany) region.

Machine Learning Features

- Machine Learning Self-Service listings are not available in the AWS European Sovereign Cloud (Germany) region.

AWS Data Exchange Features

- AWS Data Exchange Self-Service listings are not available in the AWS European Sovereign Cloud (Germany) region.

SaaS Features

- Vendor Insights is not available in the AWS European Sovereign Cloud (Germany) region.
- SaaS Quick Launch feature is not available in the AWS European Sovereign Cloud (Germany) region.
- Vendor metered tags feature is not available in the AWS European Sovereign Cloud (Germany) region.
- Professional services product type is not available in the AWS European Sovereign Cloud (Germany) region.

SaaS Pricing Models

- Free trials for SaaS product type is not available in the AWS European Sovereign Cloud (Germany) region.
- Flexible payment scheduler for SaaS product type is not available in the AWS European Sovereign Cloud (Germany) region.

Seller Features

- Agreements based offer feature is not available for listings in the AWS European Sovereign Cloud (Germany) region.
- Agreements tab is not available for listings in the AWS European Sovereign Cloud (Germany) region.
- Business Intelligence Reporting is not available in the AWS European Sovereign Cloud (Germany) region.

Buyer Features

- Marketplace website is not available for the AWS European Sovereign Cloud (Germany) region. Marketplace buyers will use the Marketplace Console to search, discover, procure, and fulfill product listings.
- Request Product Demo feature is not available for the AWS European Sovereign Cloud (Germany) region.
- Request Private Offer feature is not available for the AWS European Sovereign Cloud (Germany) region.
- Similar Products feature is not available for the AWS European Sovereign Cloud (Germany) region.
- Deploy with AWS badge on product listings is not available for the AWS European Sovereign Cloud (Germany) region.
- Product Comparison feature is not available for the AWS European Sovereign Cloud (Germany) region.
- Private Marketplace (PMP) feature is not available for the AWS European Sovereign Cloud (Germany) region.
- Managed Entitlements feature is not available for the AWS European Sovereign Cloud (Germany) region.
- Cost allocation tagging feature is not available for the AWS European Sovereign Cloud (Germany) region.
- Procurement system integrations feature is not available for the AWS European Sovereign Cloud (Germany) region.
- Product reviews feature is not available for the AWS European Sovereign Cloud (Germany) region.

Documentation References

- AWS Marketplace documentation
- AWS Developer Tools in AWS European Sovereign Cloud
- Service endpoints for AWS European Sovereign Cloud

How Amazon Neptune differs in AWS European Sovereign Cloud

This topic describes the functionality of Amazon Neptune in the AWS European Sovereign Cloud Region.

Amazon Neptune is a fast, reliable, fully managed graph database service that makes it easy to build and run applications that work with highly connected datasets. The core of Neptune is a purpose-built, high-performance graph database engine that is optimized for storing billions of relationships and querying the graph with milliseconds of latency. Neptune supports two popular property-graph query languages, Gremlin and openCypher, as well as SPARQL for RDF data. These can help you build queries that efficiently navigate highly connected datasets. You can use Neptune for graph use cases such as recommendation engines, fraud detection, knowledge graphs, drug discovery, and network security.

Service Differences

The following differences apply to Neptune in AWS European Sovereign Cloud:

General Differences

- The Neptune workbench Jupyter notebooks are not supported.
- Cross-region replication, such as using DB snapshot copying, is not supported.
- Global databases are not supported.
- Neptune Analytics is not supported.
- The list of available DB instance classes is at Amazon Neptune Pricing.
- Engine version support is different from the commercial Regions. To list the supported engine versions for Neptune, run the following CLI command:

```
 aws neptune describe-db-engine-versions --engine neptune --query "*[].
{Engine:Engine,EngineVersion:EngineVersion}" --output text
```

Documentation References

- Amazon Neptune documentation
- AWS Developer Tools in AWS European Sovereign Cloud

- Service endpoints for AWS European Sovereign Cloud

How AWS User Notifications differs in AWS European Sovereign Cloud

This topic describes the functionality of AWS User Notifications in the AWS European Sovereign Cloud Region.

AWS User Notifications lets you centrally setup and view notifications from AWS services, such as AWS Health events, Amazon CloudWatch alarms, or EC2 Instance state changes, in a consistent, human-friendly format.

Service Differences

The following differences apply to AWS User Notifications in AWS European Sovereign Cloud:

- Private Link is not supported in AWS-EUSC

Documentation References

- AWS User notifications documentation
- AWS Developer Tools in AWS European Sovereign Cloud
- Service endpoints for AWS European Sovereign Cloud

How AWS User Notifications Contacts differs in AWS European Sovereign Cloud

This topic describes the functionality of AWS User Notifications Contacts in the AWS European Sovereign Cloud Region.

AWS User Notifications Contacts is a service that allows you to create and manage email contacts for AWS User Notifications.

Service Differences

The following differences apply to AWS User Notifications in AWS European Sovereign Cloud:

- Private Link is not supported in AWS-EUSC

Documentation References

- AWS User Notifications documentation
- AWS Developer Tools in AWS European Sovereign Cloud
- Service endpoints for AWS European Sovereign Cloud

How Amazon SageMaker AI differs in AWS European Sovereign Cloud

This topic describes the functionality of Amazon SageMaker AI in the AWS European Sovereign Cloud Region.

Amazon SageMaker AI is a fully managed platform that provides every developer and data scientist with the ability to build, train, and deploy machine learning (ML) models quickly. SageMaker AI removes the heavy lifting from each step of the machine learning process to make it easier to develop high quality models.

Service Differences

Only the following features are available in AWS European Sovereign Cloud:

- Training Jobs - Fast file input mode and IFDP are not supported.
- Processing Jobs - Processing jobs that use SageMaker Spark Container Images is not supported.
- Real-time Inference - The following features are not supported:
  - Auto scaling
  - Asynchronous Inference
  - Serverless Inference
  - Inference Components
- Studio
  - Authentication using AWS Identity and Access Management is supported; authentication using IAM Identity Center is not supported.
  - Scheduling a notebook job is not supported.

  - Only VPC option is available, and public internet is not available.
- Deep Learning Containers - vLLM images not available in THF:
  - https://gallery.ecr.aws/deep-learning-containers/vllm
  - https://gallery.ecr.aws/deep-learning-containers/vllm-arm64
- Model Cards
- Model Registry
- Pipelines
- Python SDK
- JupyterLab
- Search - Search does not return results for SageMaker AI features that are not available in AWS European Sovereign Cloud (Germany) region.
- Metrics - Public endpoints are not supported; only internal endpoints are supported.
- Distribution
- Images
- Role Manager

Documentation References

- Amazon SageMaker AI documentation
- AWS Developer Tools in AWS European Sovereign Cloud
- Service endpoints for AWS European Sovereign Cloud

How Amazon OpenSearch Service differs in AWS European Sovereign Cloud

This topic describes the functionality of Amazon OpenSearch Service in the AWS European Sovereign Cloud Region.

Amazon OpenSearch Service is a managed service that makes it easy to deploy, operate, and scale OpenSearch, a popular open-source search and analytics engine. OpenSearch Service also offers security options, high availability, data durability, and direct access to the OpenSearch API.

Service Differences

The following differences apply to OpenSearch Service in AWS European Sovereign Cloud:

Supported Features

- Available OpenSearch Versions Include: 1.0, 1.1, 1.2, 1.3, 2.3, 2.5, 2.7, 2.9, 2.11, 2.13, 2.15, 2.17, 2.19
- Available Elasticsearch Versions Include: 5.1, 5.3, 5.5, 5.6, 6.0, 6.2, 6.3, 6.4, 6.5, 6.7, 6.8, 7.1, 7.4, 7.7, 7.8, 7.9, 7.10

Region	Available Instance Types
eusc-de-east-1	c7i, m7i, r7i, r7gd, i4i, c7g, r7g, m7g

Current Limitations

- Kibana Authentication with Amazon Cognito is not available in AWS European Sovereign Cloud (Germany) region.
- Amazon OpenSearch Serverless is not available in AWS European Sovereign Cloud (Germany) region.
- OpenSearch Integrations is not available in AWS European Sovereign Cloud (Germany) region
- Semantic OpenSearch is not available in AWS European Sovereign Cloud (Germany) region.
- Connection Mode for Cross-Cluster Connection - VPC Endpoint is not available in AWS European Sovereign Cloud (Germany) region.
- Direct query for Security Lake is not available in AWS European Sovereign Cloud (Germany) region.
- Custom Plugins are not available in AWS European Sovereign Cloud (Germany) region.
- OpenSearch UI (Neo UI) is not available in AWS European Sovereign Cloud (Germany) region.
- Search Pipelines is not available in AWS European Sovereign Cloud (Germany) region.
- 1K Cluster Support is not available in AWS European Sovereign Cloud (Germany) region.
- Cross cluster Search - Inter Region is not available in AWS European Sovereign Cloud (Germany) region.
- Cosine Similarity is not available in AWS European Sovereign Cloud (Germany) region.

- OpenSearch Ingestion is not available in AWS European Sovereign Cloud (Germany) region.
- Optional plugins are not available in AWS European Sovereign Cloud (Germany) region.
- Third-party plugins are not available in AWS European Sovereign Cloud (Germany) region
- Domain Configuration Dry Run Verbose is not available in AWS European Sovereign Cloud (Germany) region
- Dedicated Coordinator nodes are not available in EU (German) region

Documentation References

- Amazon OpenSearch Service documentation
- AWS Developer Tools in AWS European Sovereign Cloud
- Service endpoints for AWS European Sovereign Cloud

How AWS Organizations differs in AWS European Sovereign Cloud

This topic describes the functionality of AWS Organizations in the AWS European Sovereign Cloud Region.

AWS Organizations helps you centrally manage and govern your environment as you grow and scale your AWS resources. Using Organizations, you can create accounts and allocate resources, group accounts to organize your workflows, apply policies for governance, and simplify billing by using a single payment method for all of your accounts. Organizations also integrates with select other AWS services, which allows you to use multi-account experiences for those services.

Topics

Region Availability

AWS Organizations is available in the following:

- eusc-de-east-1

How Organizations Differs for AWS European Sovereign Cloud

The implementation of Organizations is different for AWS European Sovereign Cloud in the following ways:

- Amazon Resource Names in AWS European Sovereign Cloud and endpoints have different values.
- AWS Organizations email notifications are disabled in AWS European Sovereign Cloud. To confirm an action has successfully completed, look for confirmation notifications directly in the AWS Organizations console.
- Resource control policies (RCPs), declarative policies, backup policies, tag policies, AI services opt-out policies, and chat applications policies are not available in the AWS European Sovereign Cloud.
- Some AWS services might not be available for trusted access in the AWS European Sovereign Cloud. To see the full list of AWS services that can be enabled for trusted access, open the AWS Organizations console in the AWS European Sovereign Cloud, and then choose **Services**.

Documentation for Organizations

The following documentation is based on the public AWS documentation. As you read this documentation, you should consider how Organizations differs for AWS European Sovereign Cloud, as described in this topic. Also, some features and new functionality described in this documentation might not be available in the current release of AWS European Sovereign Cloud. There are other differences, such as links, endpoints, and screenshots.

Documentation References

- AWS Organizations documentation
- AWS Developer Tools in AWS European Sovereign Cloud
- Service endpoints for AWS European Sovereign Cloud

How Amazon Relational Database Service (Amazon RDS) differs in AWS European Sovereign Cloud

This topic describes the functionality of Amazon Relational Database Service (Amazon RDS) in the AWS European Sovereign Cloud Region.

Amazon Relational Database Service (Amazon RDS) is a web service that makes it easier to set up, operate, and scale a relational database in the cloud. It provides cost-efficient, resizeable capacity for an industry-standard relational database and manages common database administration tasks. Amazon Aurora is a fully managed relational database engine that's built for the cloud and compatible with MySQL and PostgreSQL. Amazon Aurora is part of Amazon RDS.

Service Differences

The following differences apply to Amazon RDS in AWS European Sovereign Cloud:

The following features are not available in the eusc-de-east-1 region:

- RDS Snapshot X-Reg auto backup
- RDS Cross Region Read Replicas
- RDS Recommendations Hub
- RDS 1-click move to managed using DMS
- Volume Shrink
- Zero-ETL
- Amazon RDS for PostgreSQL - RDS Extended Support
- Dedicated Log Volume
- Database Insights
- Amazon RDS Custom for SQL Server
- Amazon RDS Custom for Oracle
- Amazon Relational Database Service for Db2
- Database Activity Stream

Default Backup Window : * eusc-de-east-1 uses the following time block as the default backup window : 02:00—10:00 UTC

Default Maintenance window: * eusc-de-east-1 uses the following time block as default Maintenance window: 0:2:0 - 0:10:0

Features Not Available for Aurora PostgreSQL

- Global Databases (eusc-de-east-1 is in a single region partition)
- Data API
- Optimized Reads
- I/O-Optimized cluster storage configuration
- Database Insights
- Zero-ETL
- Aurora PostgreSQL - RDS Extended Support
- AWS Secrets Manager Integration
- Kerberos/Active Directory integration
- 1-click connect to EC2 instance in RDS Easy Create workflow

Features Not Available for Aurora MySQL

- Global Databases (eusc-de-east-1 is in a single region partition)
- Data API
- Optimized Reads
- I/O-Optimized cluster storage configuration
- Database Insights
- Zero-ETL
- Aurora MySQL - RDS Extended Support
- AWS Secrets Manager Integration
- Kerberos/Active Directory integration
- 1-click connect to EC2 instance in RDS Easy Create workflow

Documentation References

- Amazon Relational Database Service (Amazon RDS) documentation
- AWS Developer Tools in AWS European Sovereign Cloud

- Service endpoints for AWS European Sovereign Cloud

How Amazon Redshift differs in AWS European Sovereign Cloud

This topic describes the functionality of Amazon Redshift in the AWS European Sovereign Cloud Region.

Amazon Redshift is a fast, fully managed, petabyte-scale data warehouse service that makes it simple and cost-effective to efficiently analyze all your data using your existing business intelligence tools. It is optimized for datasets ranging from a few hundred gigabytes to a petabyte or more and costs less than $1,000 per terabyte per year, a tenth the cost of most traditional data warehousing solutions.

Service Differences

The following differences apply to Amazon Redshift in AWS European Sovereign Cloud:

- Auto Copy is not available in AWS European Sovereign Cloud (Germany) region.
- DynamoDB zero-ETL integration with Amazon Redshift is not available in AWS European Sovereign Cloud (Germany) region.
- User-Defined Functions (Lambda) is not available in AWS European Sovereign Cloud (Germany) region.
- Concurrency Scaling is not available in AWS European Sovereign Cloud (Germany) region.
- Amazon Redshift Serverless is not available in AWS European Sovereign Cloud (Germany) region.
- Amazon Redshift Query Editor v2 is not available in AWS European Sovereign Cloud (Germany) region.
- Federated Queries is not available in AWS European Sovereign Cloud (Germany) region.
- PrivateLink Support is not available in AWS European Sovereign Cloud (Germany) region.
- Data Sharing is not available in AWS European Sovereign Cloud (Germany) region.
- Amazon Redshift ML is not available in AWS European Sovereign Cloud (Germany) region.
- Amazon Bedrock Integration is not available in AWS European Sovereign Cloud (Germany) region.

Documentation References

- Amazon Redshift documentation
- AWS Developer Tools in AWS European Sovereign Cloud
- Service endpoints for AWS European Sovereign Cloud

How AWS Resource Groups differs in AWS European Sovereign Cloud

This topic describes the functionality of AWS Resource Groups in the AWS European Sovereign Cloud Region.

AWS Resource Groups is the service that enables you to organize your AWS resources into *resource groups*, which can help you manage and automate tasks on large numbers of resources at one time.

Service Differences

The following differences apply to AWS Resource Groups in AWS European Sovereign Cloud:

- Group lifecycle events are not supported.
- Service-linked resource groups (configuration types and parameters) are not supported.
- The Tag Editor console is not supported.
- Integration with AWS PrivateLink is not supported.
- IPv6 is not supported.
- Amazon Resource Names (ARNs) and endpoints have different values.

Documentation References

- AWS Resource Management documentation
- AWS Developer Tools in AWS European Sovereign Cloud
- Service endpoints for AWS European Sovereign Cloud

How Amazon Route 53 differs in AWS European Sovereign Cloud

This topic describes the functionality of Amazon Route 53 in the AWS European Sovereign Cloud Region.

Amazon Route 53 is a highly available and scalable Domain Name System (DNS) web service.

Service Differences

The following differences apply to Route 53 in AWS European Sovereign Cloud:

- Registering domain names is not available in AWS European Sovereign Cloud (Germany) region. To delegate domains in the AWS European Sovereign Cloud (Germany) region, you can register them using the US East (N. Virginia) region.
- DNSSEC Signing is not available in AWS European Sovereign Cloud (Germany) region.
- Traffic flow is not available in AWS European Sovereign Cloud (Germany) region.
- Route 53 alias records are supported as follows:
  - You can alias to another record in the same hosted zone.
  - You can alias to Elastic Load Balancing load balancers.
  - You can alias to a Network Load Balancer.
  - You can alias to a VPC endpoint.
  - You can alias to an Amazon API Gateway endpoint.
  - You can alias to an OpenSearch service.
  - You can alias to an Amazon S3 bucket.
  - You can’t alias to other AWS resources.
- IP-Based Routing is not available in AWS European Sovereign Cloud (Germany) region.
- DNS record types TLSA, HTTPS, SVCB, and SSHFP are not available in AWS European Sovereign Cloud (Germany) region.
- TestDNSAnswer API is not available in AWS European Sovereign Cloud (Germany) region.

Documentation References

- Amazon Route 53 documentation

- AWS Developer Tools in AWS European Sovereign Cloud
- Service endpoints for AWS European Sovereign Cloud

How Amazon Simple Storage Service (Amazon S3) differs in AWS European Sovereign Cloud

This topic describes the functionality of Amazon Simple Storage Service (Amazon S3) in the AWS European Sovereign Cloud Region.

Amazon Simple Storage Service (Amazon S3) is storage for the internet. You can use Amazon S3 to store and retrieve any amount of data at any time, from anywhere on the web.

Service Differences

The following differences apply to Amazon S3 in AWS European Sovereign Cloud:

- S3 Vectors is not available in AWS European Sovereign Cloud (Germany) region.
- S3 Access Grants is not available in AWS European Sovereign Cloud (Germany) region.
- S3 Object Lambda is not available in AWS European Sovereign Cloud (Germany) region.
- S3 Select is not available in AWS European Sovereign Cloud (Germany) region.
- S3 Mountpoint is not available in AWS European Sovereign Cloud (Germany) region.
- S3 Multi-Region Access Points is not available in AWS European Sovereign Cloud (Germany) region.
- S3 Metadata is not available in AWS European Sovereign Cloud (Germany) region.
- S3 Express One Zone is not available in AWS European Sovereign Cloud (Germany) region.
- S3 Tables is not available in AWS European Sovereign Cloud (Germany) region.
- S3 on Outposts is not available in AWS European Sovereign Cloud (Germany) region.
- S3 does not support attribute-based access control for general purpose buckets in AWS European Sovereign Cloud (Germany) region.
- S3 does not support TagResource/UnTagResource/ListTagsForResource for general purpose buckets in AWS European Sovereign Cloud (Germany) region.
- S3 does not support the tags parameter with CreateBucket API for general purpose buckets in AWS European Sovereign Cloud (Germany) region.

Amazon S3 website endpoints

When you configure your bucket as a website, the website is available by using the following Region-specific website endpoints. Note that the website endpoints are different than the REST API endpoints listed in the preceding table. For more information about hosting websites on Amazon S3, see Hosting Websites on Amazon S3 in the Amazon Simple Storage Service User Guide. You need the hosted zone IDs when using the Amazon Route 53 API to add an alias record to your hosted zone.

> **Note**
>
> Amazon S3 website endpoints do not support HTTPS or Amazon S3 Access Points. If you want to use HTTPS, you can use Amazon CloudFront to serve a static website hosted on Amazon S3. For more information, see Configuring a static website using a custom domain registered with Route 53 and Improving the performance of your website using CloudFront in the *Amazon S3 User Guide*.

Region Name	Region	Endpoint	Protocol	Route 53 Hosted Zone ID
AWS European Sovereign Cloud (Germany)	eusc-de-east-1	s3-website.eusc-de-east-1.amazonaws.eu	HTTP	Z07946532Z2HP0940LD8G

Documentation References

- Amazon Simple Storage Service (Amazon S3) documentation
- AWS Developer Tools in AWS European Sovereign Cloud
- Service endpoints for AWS European Sovereign Cloud

How AWS Secrets Manager differs in AWS European Sovereign Cloud

This topic describes the functionality of AWS Secrets Manager in the AWS European Sovereign Cloud Region.

AWS Secrets Manager helps you to securely encrypt, store, and retrieve credentials for your databases and other services. Instead of hardcoding credentials in your apps, you can make calls to Secrets Manager to retrieve your credentials whenever needed. Secrets Manager helps you protect access to your IT resources and data by enabling you to rotate and manage access to your secrets.

Service Differences for AWS European Sovereign Cloud

The following differences apply to Secrets Manager in AWS European Sovereign Cloud:

- The PrivateLink VPC Endpoint service name is `com.amazonaws.<region name>.secretsmanager`.
- Multi-Region secrets are not supported.
- Amazon Resource Names (ARNs) and endpoints have different values.
- FIPS endpoints are not supported.
- Only Signature Version 4 signing is supported.
- AWS Config managed rules for Secrets Manager are not supported.
- Managed External Secrets are not supported.

Documentation References

- AWS Secrets Manager documentation
- AWS Developer Tools in AWS European Sovereign Cloud
- Service endpoints for AWS European Sovereign Cloud

How AWS Security Hub CSPM differs in AWS European Sovereign Cloud

This topic describes the functionality of AWS Security Hub CSPM in the AWS European Sovereign Cloud Region.

AWS Security Hub CSPM provides you with a comprehensive view of the security state of your AWS resources. Security Hub collects security data from across AWS accounts and services, and helps you analyze your security trends to identify and prioritize the security issues across your AWS environment. == Region Availability

AWS Security Hub CSPM is available in the following:

- eusc-de-east-1

Service Differences

The implementation of Security Hub CSPM is different for AWS European Sovereign Cloud in the following ways:

- The preview release of the new Security Hub CSPM isn't available. This includes the console and all operations and features that apply exclusively to its correlation, contextualization, and other capabilities.
- When working with the Summary dashboard on the Security Hub CSPM console, the **Software vulnerabilities with exploits** widget isn't available.
- The AWS Resource Tagging standard and the controls that apply exclusively to this standard aren't available.
- Some Security Hub CSPM controls aren't available in the AWS European Sovereign Cloud. On the Security Hub CSPM console, a control doesn't appear in the list of controls if it isn't available in the Region that you're currently signed in to. To programmatically determine whether a control is available in the current Region, you can use the ListSecurityControlDefinitions operation of the Security Hub CSPM API.

To review a list of the Security Hub CSPM controls that are available in the AWS European Sovereign Cloud, expand the following section. For detailed information about a control, see the Security Hub CSPM control reference.

Security Hub CSPM controls in the

The following Security Hub CSPM controls are available in the AWS European Sovereign Cloud:

- CloudTrail.1
- CloudTrail.2

- CloudTrail.3
- CloudTrail.4
- CloudTrail.5
- CloudWatch.1
- CloudWatch.10
- CloudWatch.11
- CloudWatch.12
- CloudWatch.13
- CloudWatch.14
- CloudWatch.15
- CloudWatch.16
- CloudWatch.2
- CloudWatch.3
- CloudWatch.4
- CloudWatch.5
- CloudWatch.6
- CloudWatch.7
- CloudWatch.8
- CloudWatch.9
- Config.1
- DynamoDB.1
- DynamoDB.2
- EC2.1
- EC2.12
- EC2.13
- EC2.14
- EC2.15
- EC2.16
- EC2.17

- EC2.18
- EC2.2
- EC2.20
- EC2.3
- EC2.6
- EC2.7
- EC2.8
- EC2.9
- ELB.1
- ELB.4
- ELB.5
- ELB.6
- ELB.9
- IAM.20
- KMS.4
- Lambda.1
- Lambda.2
- Lambda.3
- RDS.1
- RDS.10
- RDS.11
- RDS.12
- RDS.13
- RDS.15
- RDS.2
- RDS.3
- RDS.4
- RDS.5
- RDS.6
- RDS.7

- RDS.8
- RDS.9
- S3.1
- S3.14
- S3.15
- S3.2
- S3.3
- S3.5
- S3.6
- S3.8
- S3.9
- SNS.1

Documentation References

- AWS Security Hub CSPM documentation
- AWS Developer Tools in AWS European Sovereign Cloud
- Service endpoints for AWS European Sovereign Cloud

How Service Quotas differs in AWS European Sovereign Cloud

This topic describes the functionality of Service Quotas in the AWS European Sovereign Cloud Region.

With Service Quotas, you can view and manage your quotas for AWS services from a central location.

Service Differences

The following differences apply to Service Quotas in AWS European Sovereign Cloud:

- PrivateLink Support is not available in the AWS European Sovereign Cloud (Germany) region.
- Service Quotas request templates is not available in the AWS European Sovereign Cloud (Germany) region.

Documentation References

- Service Quotas documentation
- AWS Developer Tools in AWS European Sovereign Cloud
- Service endpoints for AWS European Sovereign Cloud

How AWS Signer differs in AWS European Sovereign Cloud

This topic describes the functionality of AWS Signer in the AWS European Sovereign Cloud Region.

AWS Signer is a fully managed code-signing service to ensure the trust and integrity of your code. Organizations validate code against a digital signature to confirm that the code is unaltered and from a trusted publisher. With AWS Signer, your security administrators have a single place to define your signing environment, including what AWS Identity and Access Management (IAM) role can sign code and in what Regions. AWS Signer manages the code-signing certificate's public and private keys, and enables central management of the code-signing lifecycle.

Service Differences

The following differences apply to AWS Signer in AWS European Sovereign Cloud:

- AWS Signer only supports the container image signing feature (platform id: `Notation-OCI-SHA384-ECDSA`) and Lambda Zip signing feature (platform id: `AWSLambda-SHA384-ECDSA`) with AWS Signer APIs, the AWS CLI, and the console.
- AWS Signer automatically uses the European Sovereign Cloud partition specific root certificate when signing.
- Signature revocation is only valid within the same AWS partition that an artifact was signed in. The GetRevocationStatus API will not return the revocation information for any signatures or profiles that were revoked in other partitions.
- If you're signing container images, you must complete the following steps:
  - You must use the European Sovereign Cloud specific root certificate when verifying container images signed in the European Sovereign Cloud Region. For more information, see Prerequisites for signing container images.
  - In your trust policy, you must set `signingAuthority` to `aws-eusc-signer-ts`. For example:

```
{
  "version":"1.0",
  "trustPolicies":[
     {
        "name":"aws-signer-tp",
        "registryScopes":[
           "*"
        ],
        "signatureVerification":{
           "level":"strict"
        },
        "trustStores":[
           "signingAuthority:aws-eusc-signer-ts"
        ],
        "trustedIdentities":[
           "arn:aws-eusc:signer:region:111122223333:/signing-profiles/
ecr_signing_profile",
           "arn:aws-eusc:signer:region:111122223333:/signing-profiles/
ecr_signing_profile2"
        ]
     }
  ]
}
```

For more information about setting up trust policies for image verification, see Verify an image locally after signing.

Documentation References

- AWS Signer documentation
- AWS Developer Tools in AWS European Sovereign Cloud
- Service endpoints for AWS European Sovereign Cloud

How Amazon Simple Notification Service (Amazon SNS) differs in AWS European Sovereign Cloud

This topic describes the functionality of Amazon Simple Notification Service (Amazon SNS) in the AWS European Sovereign Cloud Region.

Amazon Simple Notification Service (Amazon SNS) is a web service that enables applications, end-users, and devices to instantly send and receive notifications from the cloud.

Service Differences

The following differences apply to Amazon SNS in AWS European Sovereign Cloud:

- In AWS European Sovereign Cloud Regions, Amazon SNS does not support mobile push notifications.

Documentation References

- Amazon Simple Notification Service (Amazon SNS) documentation
- AWS Developer Tools in AWS European Sovereign Cloud
- Service endpoints for AWS European Sovereign Cloud

How Amazon Simple Queue Service (Amazon SQS) differs in AWS European Sovereign Cloud

This topic describes the functionality of Amazon Simple Queue Service (Amazon SQS) in the AWS European Sovereign Cloud Region.

Amazon Simple Queue Service (Amazon SQS) is a fully managed message queuing service that makes it easy to decouple and scale microservices, distributed systems, and serverless applications. Amazon SQS moves data between distributed application components and helps you decouple these components.

Service Differences

The following differences apply to Amazon SQS in AWS European Sovereign Cloud:

- This service has no differences between the AWS European Sovereign Cloud Region and the standard AWS Regions.

Documentation References

- Amazon Simple Queue Service (Amazon SQS) documentation

- AWS Developer Tools in AWS European Sovereign Cloud
- Service endpoints for AWS European Sovereign Cloud

How AWS Systems Manager differs in AWS European Sovereign Cloud

This topic describes the functionality of AWS Systems Manager in the AWS European Sovereign Cloud Region.

Use AWS Systems Manager to organize, monitor, and automate management tasks on your AWS resources.

Service Differences

The following differences apply to Systems Manager in AWS European Sovereign Cloud:

- Session Manager is not available in AWS European Sovereign Cloud (Germany) region.
- Change Manager is not available in AWS European Sovereign Cloud (Germany) region.
- Application Manager is not available in AWS European Sovereign Cloud (Germany) region.
- SSM Change Management is not available in AWS European Sovereign Cloud (Germany) region.
- SSM Contacts is not available in AWS European Sovereign Cloud (Germany) region.
- SSM JITNA is not available in AWS European Sovereign Cloud (Germany) region.
- AWS Systems Manager for SAP is not available in AWS European Sovereign Cloud (Germany) region.
- AWS Systems Manager Incident Manager is not available in AWS European Sovereign Cloud (Germany) region.

Documentation References

- AWS Systems Manager documentation
- AWS Developer Tools in AWS European Sovereign Cloud
- Service endpoints for AWS European Sovereign Cloud

How Amazon VPC differs in AWS European Sovereign Cloud

This topic describes the functionality of Amazon VPC in the AWS European Sovereign Cloud Region.

Amazon Virtual Private Cloud (Amazon VPC) enables you to provision a logically isolated section of the AWS Cloud where you can launch AWS resources in a virtual network that you've defined.

Service Differences

The following differences apply to VPC in AWS European Sovereign Cloud:

- Inter-Region VPC Peering is not available
- Reachability Analyzer is not supported.
- Network Access Analyzer is not supported.
- VPC Route Server is not supported.

Documentation References

- Amazon VPC documentation
- AWS Developer Tools in AWS European Sovereign Cloud
- Service endpoints for AWS European Sovereign Cloud

How AWS Site-to-Site VPN differs in AWS European Sovereign Cloud

This topic describes the functionality of AWS Site-to-Site VPN in the AWS European Sovereign Cloud Region.

AWS Virtual Private Network (AWS VPN) establishes a secure and private tunnel from your network or device to the AWS Cloud. You can extend your existing on-premises network into a VPC, or connect to other AWS resources from a client. AWS VPN offers two types of private connectivity that feature the high availability and robust security necessary for your data.

Service Differences

The following differences apply to Site-to-Site VPN in AWS European Sovereign Cloud:

- S2S VPN integration with Secrets Manager for PSK is not available in AWS European Sovereign Cloud (Germany) region.
- Accelerated VPN is not available in AWS European Sovereign Cloud (Germany) region.
- Private IP VPN with AWS Direct Connect is not available in AWS European Sovereign Cloud (Germany) region.
- Certificated-Based VPN is not available in AWS European Sovereign Cloud (Germany) region.

Documentation References

- AWS Site-to-Site VPN documentation
- AWS Developer Tools in AWS European Sovereign Cloud
- Service endpoints for AWS European Sovereign Cloud

How AWS WAF differs in AWS European Sovereign Cloud

This topic describes the functionality of AWS WAF in the AWS European Sovereign Cloud Region. AWS WAF is a web application firewall that lets you monitor web requests that are forwarded to resources, such as AWS API Gateway and AWS Application Load Balancers. You can also use AWS WAF to block or allow requests based on conditions that you specify, such as the IP addresses that requests originate from or values in the requests. For list of services that AWS WAF supports, please visit the service page.

Service Differences

The following differences apply to AWS WAF in AWS European Sovereign Cloud:

AWS WAF for AWS European Sovereign Cloud (EU) doesn't support the following functionality:

- Partner Managed rule groups that are provided for subscription by AWS Marketplace third party sellers are not available for use in European Sovereign Cloud (EU). The only managed rule groups that are available in AWS European Sovereign Cloud (EU) are the AWS managed rule groups that are provided with AWS WAF. For more information about managed rule groups in AWS WAF, see Managed rule groups in the AWS WAF Developer Guide.
- AWS WAF web ACL association with AWS App Runner, AWS AppSync, Amazon Cognito, AWS Verified Access, Amazon CloudFront, and AWS Amplify is not available in the European Sovereign Cloud (EU) region.

- AWS PrivateLink integration with AWS WAF is not available in the European Sovereign Cloud (EU) region.

Export-controlled Content

For AWS Services architected within the AWS European Sovereign Cloud (EU) Regions, the following list explains how certain components of data may leave the AWS European Sovereign Cloud (EU) Regions in the normal course of the service offerings. The list can be used as a guide to help meet applicable customer compliance obligations. Data not included in the following list remains within the AWS European Sovereign Cloud (EU) Regions.

- No export-controlled data may be entered, stored, or processed by AWS WAF. For example, AWS WAF metadata is not permitted to contain export-controlled data. For example, do not enter export-controlled data in the following fields:
  - Web ACL name
  - CloudWatch metric name
  - Condition
  - Rule name

Documentation References

- AWS WAF documentation
- AWS Developer Tools in AWS European Sovereign Cloud
- Service endpoints for AWS European Sovereign Cloud

How AWS X-Ray differs in AWS European Sovereign Cloud

This topic describes the functionality of AWS X-Ray in the AWS European Sovereign Cloud Region.

AWS X-Ray makes it easy for developers to analyze the behavior of their distributed applications by providing request tracing, exception collection, and profiling capabilities.

Service Differences

The following differences apply to X-Ray in AWS European Sovereign Cloud:

- Amazon Resource Names in AWS European Sovereign Cloud and endpoints have different values.
- Only signature version 4 signing is supported.
- Trace IDs in W3C file format are not supported
- Cross-account tracing is not supported
- IPv6 endpoint types are not supported
- AWS Distro for OpenTelemetry (ADOT) collector is not supported
- The following APIs are not supported:
  - start-trace-retrieval
  - get-retrieved-traces-graph
  - list-retrieved-traces
  - cancel-trace-retrieval
  - update-trace-segment-destination
  - get-trace-segment-destination
  - get-indexing-rules
  - update-indexing-rule
- Transaction Search is not supported.

Unlike commercial regions X-Ray Daemon assets are not replicated to buckets in the Secret Regions. However, the CloudWatch Agent is able to act as a replacement for X-Ray Daemon and is compatible with X-Ray SDK. The CloudWatch Agent is available in the Secret Regions. For more information, see Collect metrics.

Documentation References

- AWS X-Ray documentation
- AWS Developer Tools in AWS European Sovereign Cloud
- Service endpoints for AWS European Sovereign Cloud

How Application Recovery Controller - Zonal Shift differs in AWS European Sovereign Cloud

This topic describes the functionality of Application Recovery Controller - Zonal Shift in the AWS European Sovereign Cloud Region.

Application Recovery Controller - Zonal Shift

Service Differences

The following differences apply to Zonal Shift in AWS European Sovereign Cloud:

- Region Switch is not available in AWS European Sovereign Cloud (Germany) region.
- Routing Control is not available in AWS European Sovereign Cloud (Germany) region.
- Readiness Checks is not available in AWS European Sovereign Cloud (Germany) region.

Documentation References

- Application Recovery Controller - Zonal Shift documentation
- AWS Developer Tools in AWS European Sovereign Cloud
- Service endpoints for AWS European Sovereign Cloud