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AWS IAM FAQs

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General

Q: What is AWS Identity and Access Management (IAM)?

You can use AWS IAM to securely control individual and group access to your AWS resources. You can create and manage user identities ("IAM users") and grant permissions to IAM users to access your resources. You can also grant permissions for users outside of AWS (federated users).

Q: How do I get started with IAM?

After you've signed up for AWS, you can create users and groups and assign them permissions to access your AWS resources. You can use the IAM console (for web-based ac AWS Command Line Interface (CLI, for command line access), or the API or SDKs (for programmatic access). To grant permissions, you create policy documents that you attac groups, or other entities. See the video, Getting Started with AWS IAM.

Q: What problems does IAM solve?

IAM makes it easy to provide multiple users secure access to your AWS resources. IAM enables you to:

- Manage IAM users and their access: You can create users in AWS's identity management system, assign users individual security credentials (such as access keys, passwor factor authentication devices), or request temporary security credentials to provide users access to AWS services and resources. You can specify permissions to control whice operations a user can perform.
- Manage access for federated users: You can request security credentials with configurable expirations for users who you manage in your corporate directory, allowing you to
 your employees and applications secure access to resources in your AWS account without creating an IAM user account for them. You specify the permissions for these sec
 credentials to control which operations a user can perform.

Q: Who can use IAM?

Any AWS customer can use IAM. The service is offered at no additional charge. You will be charged only for the use of other AWS services by your users.

Q: What is a user?

A user is a unique identity recognized by AWS services and applications. Similar to a login user in an operating system like Windows or UNIX, a user has a unique name and car itself using familiar security credentials such as a password or access key. A user can be an individual, system, or application requiring access to AWS services. IAM supports u (referred to as "IAM users") managed in AWS's identity management system, and it also enables you to grant access to AWS resources for users managed outside of AWS in you directory (referred to as "federated users").

Q: What can a user do?

A user can place requests to web services such as Amazon S3 and Amazon EC2. A user's ability to access web service APIs is under the control and responsibility of the AWS under which it is defined. You can permit a user to access any or all of the AWS services that have been integrated with IAM and to which the AWS account has subscribed. If p user has access to all of the resources under the AWS account. In addition, if the AWS account has access to resources from a different AWS account, its users may be able to under those AWS accounts. Any AWS resources created by a user are under control of and paid for by its AWS account. A user cannot independently subscribe to AWS service resources.

Q: How do users call AWS services?

Users can make requests to AWS services using security credentials. Explicit permissions govern a user's ability to call AWS services. By default, users have no ability to call se on behalf of the account.

Q: How do I get started with IAM?

To start using IAM, you must subscribe to at least one of the AWS services that is integrated with IAM. You then can create and manage users, groups, and permissions via IAW

https://aws.amazon.com/iam/faqs/

AWS CLI, or the IAM console, which gives you a point-and-click, web-based interface. You can also use the AWS Policy Generator to create policies.

IAM User Management

Q: How are IAM users managed?

IAM supports multiple methods to:

- · Create, delete, and list IAM users.
- · Manage group membership.
- · Manage user security credentials.
- · Assign permissions.

You can create and manage users, groups, and permissions via IAM APIs, the AWS CLI, or the IAM console, which gives you a point-and-click, web-based interface. You can a AWS Policy Generator and AWS Policy Simulator to create and test policies.

Q: What is a group?

A group is a collection of IAM users. Manage group membership as a simple list:

- · Add users to or remove them from a group.
- · A user can belong to multiple groups.
- · Groups cannot belong to other groups.
- Groups can be granted permissions using access control policies. This makes it easier to manage permissions for a collection of users, rather than having to manage permissions for a collection of users, rather than having to manage permissions for a collection of users, rather than having to manage permissions.
- Groups do not have security credentials, and cannot access web services directly; they exist solely to make it easier to manage user permissions. For details, see Working w and Users

Q: What kinds of security credentials can IAM users have?

IAM users can have any combination of credentials that AWS supports, such as an AWS access key, X.509 certificate, SSH key, password for web app logins, or an MFA device allows users to interact with AWS in any manner that makes sense for them. An employee might have both an AWS access key and a password; a software system might have access key to make programmatic calls; IAM users might have a private SSH key to access AWS CodeCommit repositories; and an outside contractor might have only an X.508 to use the EC2 command-line interface. For details, see Temporary Security Credentials in the IAM documentation.

Q: Which AWS services support IAM users?

You can find the complete list of AWS services that support IAM users in the AWS Services That Work with IAM section of the IAM documentation. AWS plans to add support for services over time.

Q: Can I enable and disable user access?

Yes. You can enable and disable an IAM user's access keys via the IAM APIs, AWS CLI, or IAM console. If you disable the access keys, the user cannot programmatically access services.

Q: Who is able to manage users for an AWS account?

The AWS account holder can manage users, groups, security credentials, and permissions. In addition, you may grant permissions to individual users to place calls to IAM APIs manage other users. For example, an administrator user may be created to manage users for a corporation—a recommended practice. When you grant a user permission to ma users, they can do this via the IAM APIs, AWS CLI, or IAM console.

Q: Can I structure a collection of users in a hierarchical way, such as in LDAP?

Yes. You can organize users and groups under paths, similar to object paths in Amazon S3-for example /mycompany/division/project/joe.

Q: Can I define users regionally?

Not initially. Users are global entities, like an AWS account is today. No region is required to be specified when you define user permissions. Users can use AWS services in any region.

Q: How are MFA devices configured for IAM users?

You (the AWS account holder) can order multiple MFA devices. You can then assign these devices to individual IAM users via the IAM APIs, AWS CLI, or IAM console.

Q: What kind of key rotation is supported for IAM users?

User access keys and X.509 certificates can be rotated just as they are for an AWS account's root access identifiers. You can manage and rotate programmatically a user's acc and X.509 certificates via the IAM APIs, AWS CLI, or IAM console.

Q: Can IAM users have individual EC2 SSH keys?

Not in the initial release. IAM does not affect EC2 SSH keys or Windows RDP certificates. This means that although each user has separate credentials for accessing web servic must share SSH keys that are common across the AWS account under which users have been defined.

Q: Where can I use my SSH keys?

Currently, IAM users can use their SSH keys only with AWS CodeCommit to access their repositories.

Q: Do IAM user names have to be email addresses?

No, but they can be. User names are just ASCII strings that are unique within a given AWS account. You can assign names using any naming convention you choose, including addresses

Q: Which character sets can I use for IAM user names?

You can only use ASCII characters for IAM entities.

Q: Are user attributes other than user name supported?

Not at this time.

Q: How are user passwords set?

You can set an initial password for an IAM user via the IAM console, AWS CLI, or IAM APIs. User passwords never appear in clear text after the initial provisioning, and are neve or returned via an API call. IAM users can manage their passwords via the **My Password** page in the IAM console. Users access this page by selecting the **Security Credential** from the drop-down list in the upper right corner of the AWS Management Console.

Q: Can I define a password policy for my user's passwords?

Yes, you can enforce strong passwords by requiring minimum length or at least one number. You can also enforce automatic password expiration, prevent re-use of old password require a password reset upon the next AWS sign-in. For details, see Setting an Account Policy Password for IAM Users.

Q: Can I set usage quotas on IAM users?

No. All limits are on the AWS account as a whole. For example, if your AWS account has a limit of 20 Amazon EC2 instances, IAM users with EC2 permissions can start instance limit. You cannot limit what an individual user can do.

IAM Role Management

Q: What is an IAM role?

An IAM role is an IAM entity that defines a set of permissions for making AWS service requests. IAM roles are not associated with a specific user or group. Instead, trusted entiti roles, such as IAM users, applications, or AWS services such as EC2.

Q: What problems do IAM roles solve?

IAM roles allow you to delegate access with defined permissions to trusted entities without having to share long-term access keys. You can use IAM roles to delegate access to managed within your account, to IAM users under a different AWS account, or to an AWS service such as EC2.

Q: How do I get started with IAM roles?

You create a role in a way similar to how you create a user—name the role and attach a policy to it. For details, see Creating IAM Roles.

Q: How do I assume an IAM role?

You assume an IAM role by calling the AWS Security Token Service (STS) AssumeRole APIs (in other words, AssumeRole, AssumeRoleWithWebIdentity, and AssumeRoleWithS APIs return a set of temporary security credentials that applications can then use to sign requests to AWS service APIs.

Q: How many IAM roles can I assume?

There is no limit to the number of IAM roles you can assume, but you can only act as one IAM role when making requests to AWS services.

Q: Who can use IAM roles?

Any AWS customer can use IAM roles.

Q: How much do IAM roles cost?

IAM roles are free of charge. You will continue to pay for any resources a role in your AWS account consumes.

Q: How are IAM roles managed?

You can create and manage IAM roles via the IAM APIs, AWS CLI, or IAM console, which gives you a point-and-click, web-based interface.

Q: What is the difference between an IAM role and an IAM user?

An IAM user has permanent long-term credentials and is used to directly interact with AWS services. An IAM role does not have any credentials and cannot make direct request services. IAM roles are meant to be assumed by authorized entities, such as IAM users, applications, or an AWS service such as EC2.

Q: When should I use an IAM user, IAM group, or IAM role?

An IAM user has permanent long-term credentials and is used to directly interact with AWS services. An IAM group is primarily a management convenience to manage the same permissions for a set of IAM users. An IAM role is an AWS Identity and Access Management (IAM) entity with permissions to make AWS service requests. IAM roles cannot mak requests to AWS services; they are meant to be assumed by authorized entities, such as IAM users, applications, or AWS services such as EC2. Use IAM roles to delegate acce between AWS accounts.

Q: Can I add an IAM role to an IAM group?

Not at this time.

Q: How many policies can I attach to an IAM role?

For inline policies: You can add as many inline policies as you want to a user, role, or group, but the total aggregate policy size (the sum size of all inline policies) per entity can the following limits:

- User policy size cannot exceed 2,048 characters.
- Role policy size cannot exceed 10,240 characters.

• Group policy size cannot exceed 5,120 characters.

For managed policies: You can add up to 10 managed policies to a user, role, or group. The size of each managed policy cannot exceed 5,120 characters.

Q: How many IAM roles can I create?

You are limited to 250 IAM roles under your AWS account. If you need more roles, submit the IAM limit increase request form with your use case, and we will consider your requ

Q: To which services can my application make requests?

Your application can make requests to all AWS services that support role sessions.

Q: What is IAM roles for EC2 instances?

IAM roles for EC2 instances enables your applications running on EC2 to make requests to AWS services such as Amazon S3, Amazon SQS, and Amazon SNS without you hav AWS access keys to every instance. For details, see IAM Roles for Amazon EC2.

Q: What are the features of IAM roles for EC2 instances?

IAM roles for EC2 instances provides the following features:

- · AWS temporary security credentials to use when making requests from running EC2 instances to AWS services.
- Automatic rotation of the AWS temporary security credentials.
- · Granular AWS service permissions for applications running on EC2 instances.

Q: What problem does IAM roles for EC2 instances solve?

IAM roles for EC2 instances simplifies management and deployment of AWS access keys to EC2 instances. Using this feature, you associate an IAM role with an instance. Then instance provides the temporary security credentials to applications running on the instance, and the applications can use these credentials to make requests securely to the AV resources defined in the role.

Q: How do I get started with IAM roles for EC2 instances?

To understand how roles work with EC2 instances, you need to use the IAM console to create a role, launch an EC2 instance that uses that role, and then examine the running i can examine the instance metadata to see how the role credentials are made available to an instance. You can also see how an application that runs on an instance can use the more details, see How Do I Get Started?

Q: Can I use the same IAM role on multiple EC2 instances?

Yes.

Q: Can I change the IAM role on a running EC2 instance?

Yes. Although a role is usually assigned to an EC2 instance when you launch it, a role can also be assigned to an EC2 instance that is already running. To learn how to assign a running instance, see IAM Roles for Amazon EC2. You can also change the permissions on the IAM role associated with a running instance, and the updated permissions take cimmediately.

Q: Can I associate an IAM role with an already running EC2 instance?

Yes. You can assign a role to an EC2 instance that is already running. To learn how to assign a role to an already running instance, see IAM Roles for Amazon EC2.

Q: Can I associate an IAM role with an Auto Scaling group?

Yes. You can add an IAM role as an additional parameter in an Auto Scaling launch configuration and create an Auto Scaling group with that launch configuration. All EC2 instar launched in an Auto Scaling group that is associated with an IAM role are launched with the role as an input parameter. For more details, see What Is Auto Scaling? in the Auto Developer Guide.

Q: Can I associate more than one IAM role with an EC2 instance?

No. You can only associate one IAM role with an EC2 instance at this time. This limit of one role per instance cannot be increased.

Q: What happens if I delete an IAM role that is associated with a running EC2 instance?

Any application running on the instance that is using the role will be denied access immediately.

Q: Can I control which IAM roles an IAM user can associate with an EC2 instance?

Yes. For details, see Permissions Required for Using Roles with Amazon EC2.

Q: Which permissions are required to launch EC2 instances with an IAM role?

You must grant an IAM user two distinct permissions to successfully launch EC2 instances with roles:

- · Permission to launch EC2 instances.
- · Permission to associate an IAM role with EC2 instances.

For details, see Permissions Required for Using Roles with Amazon EC2.

Q: Who can access the access keys on an EC2 instance?

Any local user on the instance can access the access keys associated with the IAM role.

Q: How do I use the IAM role with my application on the EC2 instance?

If you develop your application with the AWS SDK, the AWS SDK automatically uses the AWS access keys that have been made available on the EC2 instance. If you are not us SDK, you can retrieve the access keys from the EC2 instance metadata service. For details, see Using an IAM Role to Grant Permissions to Applications Running on Amazon EC

Q: How do I rotate the temporary security credentials on the EC2 instance?

The AWS temporary security credentials associated with an IAM role are automatically rotated multiple times a day. New temporary security credentials are made available no la

minutes before the existing temporary security credentials expire.

Q: Can I use IAM roles for EC2 instances with any instance type or Amazon Machine Image?

Yes. IAM roles for EC2 instances also work in Amazon Virtual Private Cloud (VPC), with spot and reserved instances.

Q: What is a service-linked role

A service-linked role is a type of role that links to an AWS service (also known as a *linked service*) such that only the linked service can assume the role. Using these roles, you c permissions to AWS services to create and manage AWS resources on your behalf.

Q: Can I assume a service-linked role?

No. A service-linked role can be assumed only by the linked service. This is the reason why the trust policy of a service-linked role cannot be modified.

Q: How can I delete a service-linked role?

You can delete a service-linked role from the linked service. Before you delete the role, the linked service may require you to delete all the AWS resources that depend on the role ensures that you do not inadvertently delete a role required for your AWS resources to function properly.

Permissions

Q: How do permissions work?

Access control policies are attached to users, groups, and roles to assign permissions to AWS resources. By default, IAM users, groups, and roles have no permissions; users v permissions must use a policy to grant the desired permissions.

Q: How do I assign permissions using a policy?

To set permissions, you can create and attach policies using the AWS Management Console, the IAM API, or the AWS CLI. Users who have been granted the necessary permiscreate policies and assign them to IAM users, groups, and roles.

Q: What are managed policies?

Managed policies are IAM resources that express permissions using the IAM policy language. You can create, edit, and manage separately from the IAM users, groups, and role they are attached. After you attach a managed policy to multiple IAM users, groups, or roles, you can update that policy in one place and the permissions automatically extend t attached entities. Managed policies are managed either by you (these are called customer managed policies) or by AWS (these are called AWS managed policies). For more info about managed policies, see Managed Policies and Inline Policies.

Q: How do I assign commonly used permissions?

AWS provides a set of commonly used permissions that you can attach to IAM users, groups, and roles in your account. These are called AWS managed policies. One example access for Amazon S3. When AWS updates these policies, the permissions are applied automatically to the users, groups, and roles to which the policy is attached. AWS mana automatically appear in the **Policies** section of the IAM console. When you assign permissions, you can use an AWS managed policy or you can create your own customer man Create a new policy based on an existing AWS managed policy, or define your own.

Q: How do group-based permissions work?

Use IAM groups to assign the same set of permissions to multiple IAM users. A user can also have individual permissions assigned to them. The two ways to attach permissions work together to set overall permissions.

Q: What is the difference between assigning permissions using IAM groups and assigning permissions using managed policies?

Use IAM groups to collect IAM users and define common permissions for those users. Use managed policies to share permissions across IAM users, groups, and roles. For exa want a group of users to be able to launch an Amazon EC2 instance, and you also want the role on that instance to have the same permissions as the users in the group, you can managed policy and assign it to the group of users and the role on the Amazon EC2 instance.

Q: How are IAM policies evaluated in conjunction with Amazon S3, Amazon SQS, Amazon SNS, and AWS KMS resource-based policies?

IAM policies are evaluated together with the service's resource-based policies. When a policy of any type grants access (without explicitly denying it), the action is allowed. For information about the policy evaluation logic, see IAM Policy Evaluation Logic.

Q: Can I use a managed policy as a resource-based policy?

Managed policies can only be attached to IAM users, groups, or roles. You cannot use them as resource-based policies.

Q: How do I set granular permissions using policies?

Using policies, you can specify several layers of permission granularity. First, you can define specific AWS service actions you wish to allow or explicitly deny access to. Second on the action, you can define specific AWS resources the actions can be performed on. Third, you can define conditions to specify when the policy is in effect (for example, if M enabled or not)

Q: How can I easily remove unnecessary permissions?

To help you determine which permissions are needed, the IAM console now displays service last accessed data that shows the hour when an IAM entity (a user, group, or role) I accessed an AWS service. Knowing if and when an IAM entity last exercised a permission can help you remove unnecessary permissions and tighten your IAM policies with less

Q: Can I grant permissions to access or change account-level information (for example, payment instrument, contact email address, and billing history)?

Yes, you can delegate the ability for an IAM user or a federated user to view AWS billing data and modify AWS account information. For more information about controlling accebilling information, see Controlling Access.

Q: Who can create and manage access keys in an AWS account?

Only the AWS account owner can manage the access keys for the root account. The account owner and IAM users or roles that have been granted the necessary permissions c access keys for IAM users.

Q: Can I grant permissions to access AWS resources owned by another AWS account?

Yes. Using IAM roles, IAM users and federated users can access resources in another AWS account via the AWS Management Console, the AWS CLI, or the APIs. See Manage for more information.

Q: What does a policy look like?

The following policy grants access to add, update, and delete objects from a specific folder, example_folder, in a specific bucket, example_bucket.

```
"Version":"2012-10-17",

"Statement":[
{

    "Effect":"Allow",
    "Action":[
        "s3:PutObject",
        "s3:GetObjectVersion",
        "s3:DeleteObject",
        "s3:DeleteObjectVersion"
],
    "Resource":"arn:aws:s3:::example_bucket/example_folder/*"
}
```

Q: What is a policy summary?

If you are using the IAM console and choose a policy, you will see a policy summary. A policy summary lists the access level, resources, and conditions for each service defined (see the following screenshot for an example). The access level (View, Read, Write, or Permissions management) is defined by actions granted for each service in the policy. You the policy in JSON by choosing the **JSON** button.

Service -	Access level	Resource	Request condition
Allow (10 of 94 services)			
CloudFormation	Full: List Limited: Read, Write	All resources	None
CloudWatch Logs	Full access	Multiple	None
EC2	Full: List Limited: Read	All resources	None
Elastic Beanstalk	Full access	All resources	elasticbeanstalk:InApplication = arn:aws:elasticbeanstalk:*11112222 3333:application/Bank-Devl

Policy Simulator

Q: What is the IAM policy simulator?

The IAM policy simulator is a tool to help you understand, test, and validate the effects of your access control policies.

Q: What can the policy simulator be used for?

You can use the policy simulator in several ways. You can test policy changes to ensure they have the desired effect before committing them to production. You can validate ex policies attached to users, groups, and roles to verify and troubleshoot permissions. You can also use the policy simulator to understand how IAM policies and resource-based work together to grant or deny access to AWS resources.

Q: Who can use the policy simulator?

The policy simulator is available to all AWS customers.

Q: How much does the policy simulator cost?

The policy simulator is available at no extra cost.

Q: How do I get started?

Go to https://policysim.aws.amazon.com, or click the link on the IAM console under "Additional Information." Specify a new policy or choose an existing set of policies from a uror role that you'd like to evaluate. Then select a set of actions from the list of AWS services, provide any required information to simulate the access request, and run the simular determine whether the policy allows or denies permissions to the selected actions and resources. To learn more about the IAM policy simulator, watch our Getting Started video documentation.

Q: What kinds of policies does the IAM policy simulator support?

The policy simulator supports testing of newly entered policies and existing policies attached to users, groups, or roles. In addition, you can simulate whether resource-level pol access to a particular resource for Amazon S3 buckets, Amazon Glacier vaults, Amazon SNS topics, and Amazon SQS queues. These are included in the simulation when an Ar Resource Name (ARN) is specified in the **Resource** field in **Simulation Settings** for a service that supports resource policies.

Q: If I change a policy in the policy simulator, do those changes persist in production?

No. To apply changes to production, copy the policy that you've modified in the policy simulator and attach it to the desired IAM user, group, or role.

Q: Can I use the policy simulator programmatically?

Yes. You can use the policy simulator using the AWS SDKs or AWS CLI in addition to the policy simulator console. Use the iam:SimulatePrincipalPolicy API to programmatically existing IAM policies. To test the effects of new or updated policies that are not yet attached to a user, group, or role, call the iam:SimulateCustomPolicy API.

Signing In

Q: How does an IAM user sign in?

An IAM user must sign in using the account's sign-in URL, which will direct them to a page where they can enter their IAM user name and password. This sign-in URL is located dashboard of the IAM console. The AWS account's system administrator must communicate the sign-in URL to the IAM user.

Q: What is an AWS account alias?

The account alias is a name you define to make it more convenient to identify your account. You can create an alias using the IAM APIs, AWS Command Line Tools, or the IAM You can have one alias per AWS account.

Q: Do IAM users always have to use the direct link?

IAM users must use the account-specific URL for the first sign-in. Thereafter, the account-specific URL is stored as a cookie in the user's browser. This allows a user to return to http://aws.amazon.com and simply click **Sign In to the Console**. If the user clears his browser cookies or uses a different browser, he must use the account-specific URL once

Q: Which AWS sites can IAM users access?

IAM users can sign in to the following AWS sites:

- AWS Management Console
- AWS Forums
- AWS Support Center
- AWS Marketplace

Q: Can IAM users sign in to other Amazon.com properties with their credentials?

No. Users created with IAM are recognized only by AWS services and applications.

Q: Is there an authentication API to verify IAM user sign-ins?

No. There is no programmatic way to verify user sign-ins.

Q: Can users SSH to EC2 instances using their AWS user name and password?

No. User security credentials created with IAM are not supported for direct authentication to customer EC2 instances. Managing EC2 SSH credentials is the customer's responsible EC2 console.

Temporary Security Credentials

Q: What are temporary security credentials?

Temporary security credentials consist of the AWS access key ID, secret access key, and security token. Temporary security credentials are valid for a specified duration and fo set of permissions. Temporary security credentials are sometimes simply referred to as *tokens*. Tokens can be requested for IAM users or for federated users you manage in you corporate directory. For more information, see Common Scenarios for Temporary Credentials.

Q: What are the benefits of temporary security credentials?

Temporary security credentials allow you to:

- Extend your internal user directories to enable federation to AWS, enabling your employees and applications to securely access AWS service APIs without needing to create
 identity for them.
- Request temporary security credentials for an unlimited number of federated users.
- Configure the time period after which temporary security credentials expire, offering improved security when accessing AWS service APIs through mobile devices where then losing the device.

Q: How can I request temporary security credentials for federated users?

You can call the GetFederationToken, AssumeRole, AssumeRoleWithSAML, or AssumeRoleWithWebIdentity STS APIs.

Q: How can IAM users request temporary security credentials for their own use?

IAM users can request temporary security credentials for their own use by calling the AWS STS GetSessionToken API. The default expiration for these temporary credentials is

minimum is 15 minutes, and the maximum is 36 hours.

You can also use temporary credentials with Multi-Factor Authentication (MFA)-Protected API Access.

Q: How can I use temporary security credentials to call AWS service APIs?

If you're making direct HTTPS API requests to AWS, you can sign those requests with the temporary security credentials that you get from AWS Security Token Service (AWS S this, do the following:

- Use the access key ID and secret access key that are provided with the temporary security credentials the same way you would use long-term credentials to sign a request. I information about signing HTTPS API requests, see Signing AWS API Requests in the AWS General Reference.
- Use the session token that is provided with the temporary security credentials. Include the session token in the "x-amz-security-token" header. See the following example reconstruction of providing examples and provided with the temporary security credentials. Include the session token in the "x-amz-security-token" header.
 For Amazon S3, via the "x-amz-security-token" HTTP header.
 - For other AWS services, via the SecurityToken parameter.

Q: Which AWS services accept temporary security credentials?

For a list of supported services, see AWS Services That Work with IAM.

Q: What is the maximum size of the access policy that I can specify when requesting temporary security credentials (either GetFederationToken or AssumeRole)? The policy plaintext must be 2048 bytes or shorter. However, an internal conversion compresses it into a packed binary format with a separate limit.

Q: Can a temporary security credential be revoked prior to its expiration?

No. When requesting temporary credentials, we recommend the following:

- When creating temporary security credentials, set the expiration to a value that is appropriate for your application.
- Because root account permissions cannot be restricted, use an IAM user and not the root account for creating temporary security credentials. You can revoke permissions or user that issued the original call to request it. This action almost immediately revokes privileges for all temporary security credentials issued by that IAM user

Q: Can I reactivate or extend the expiration of temporary security credentials?

No. It is a good practice to actively check the expiration and request a new temporary security credential before the old one expires. This rotation process is automatically mana when temporary security credentials are used in roles for EC2 instances.

Q: Are temporary security credentials supported in all regions?

Customers can request tokens from AWS STS endpoints in all regions, including AWS GovCloud (US) and China (Beijing) regions. Temporary credentials from AWS GovCloud (IC) can be used only in the region from which they originated. Temporary credentials requested from any other region such as US East (N. Virginia) or EU (Ireland) can all regions except AWS GovCloud (US) and China (Beijing).

Q: Can I restrict the use of temporary security credentials to a region or a subset of regions?

No. You cannot restrict the temporary security credentials to a particular region or subset of regions, except the temporary security credentials from AWS GovCloud (US) and Cl (Beijing), which can be used only in the respective regions from which they originated.

Q: What do I need to do before I can start using an AWS STS endpoint?

AWS STS endpoints are active by default in all regions and you can start using them without any further actions.

Q: What happens if I try to use a regional AWS STS endpoint that has been deactivated for my AWS account?

If you attempt to use a regional AWS STS endpoint that has been deactivated for your AWS account, you will see an **AccessDenied** exception from AWS STS with the following "AWS STS is not activated in this region for account: *AccountID*. Your account administrator can activate AWS STS in this region using the IAM console."

Q: What permissions are required to activate or deactivate AWS STS regions from the Account Settings page?

Only users with at least iam:* permissions can activate or deactivate AWS STS regions from the **Account Settings** page in the IAM console. Note that the AWS STS endpoints i (N. Virginia), AWS GovCloud (US), and China (Beijing) regions are always active and cannot be deactivated.

Q: Can I use the API or CLI to activate or deactivate AWS STS regions?

No. There is no API or CLI support at this time to activate or deactivate AWS STS regions. We plan to provide API and CLI support in a future release.

Identity Federation

Q: What is identity federation?

AWS Identity and Access Management (IAM) supports identity federation for delegated access to the AWS Management Console or AWS APIs. With identity federation, externa are granted secure access to resources in your AWS account without having to create IAM users. These external identities can come from your corporate identity provider (such Microsoft Active Directory or from the AWS Directory Service) or from a web identity provider (such as Amazon Cognito, Login with Amazon, Facebook, Google, or any OpenID compatible provider).

Q: What are federated users?

Federated users (external identities) are users you manage outside of AWS in your corporate directory, but to whom you grant access to your AWS account using temporary sec credentials. They differ from IAM users, which are created and maintained in your AWS account.

Q: Do you support SAML?

Yes, AWS supports the Security Assertion Markup Language (SAML) 2.0.

Q: What SAML profiles does AWS support?

The AWS single sign-on (SSO) endpoint supports the IdP-initiated HTTP-POST binding WebSSO SAML Profile. This enables a federated user to sign in to the AWS Managemen using a SAML assertion. A SAML assertion can also be used to request temporary security credentials using the AssumeRoleWithSAML API. For more information, see About S. Based Federation.

Q: Can federated users access AWS APIs?

Yes. You can programmatically request temporary security credentials for your federated users to provide them secure and direct access to AWS APIs. We have provided a san application that demonstrates how you can enable identity federation, providing users maintained by Microsoft Active Directory access to AWS service APIs. For more informati Using Temporary Security Credentials to Request Access to AWS Resources.

Q: Can federated users access the AWS Management Console?

Yes. There are a couple ways to achieve this. One way is by programmatically requesting temporary security credentials (such as GetFederationToken or AssumeRole) for your 1 users and including those credentials as part of the sign-in request to the AWS Management Console. After you have authenticated a user and granted them temporary security you generate a sign-in token that is used by the AWS single sign-on (SSO) endpoint. The user's actions in the console are limited to the access control policy associated with the security credentials. For more details, see Creating a URL that Enables Federated Users to Access the AWS Management Console (Custom Federation Broker).

Alternatively, you can post a SAML assertion directly to AWS sign-in (https://signin.aws.amazon.com/saml). The user's actions in the console are limited to the access control p associated with the IAM role that is assumed using the SAML assertion. For more details, see Enabling SAML 2.0 Federated Users to Access the AWS Management Console.

Using either approach allows a federated user to access the console without having to sign in with a user name and password. We have provided a sample application that dern how you can enable identity federation, providing users maintained by Microsoft Active Directory access to the AWS Management Console.

Q: How do I control what a federated user is allowed to do when signed in to the console?

When you request temporary security credentials for your federated user using an AssumeRole API, you can optionally include an access policy with the request. The federated privileges are the intersection of permissions granted by the access policy passed with the request and the access policy attached to the IAM role that was assumed. The access passed with the request cannot elevate the privileges associated with the IAM role being assumed. When you request temporary security credentials for your federated user using GetFederationToken API, you must provide an access control policy with the request. The federated user's privileges are the intersection of the permissions granted by the acceps and with the request and the access policy attached to the IAM user that was used to make the request. The access policy passed with the request cannot elevate the privile associated with the IAM user used to make the request. These federated user permissions apply to both API access and actions taken within the AWS Management Console.

Q: What permissions does a federated user need to use the console?

A user requires permissions to the AWS service APIs called by the AWS Management Console. Common permissions required to access AWS services are documented in Usin Security Credentials to Request Access to AWS Resources.

Q: How do I control how long a federated user has access to the AWS Management Console?

Depending on the API used to create the temporary security credentials, you can specify a session limit between 15 minutes and 36 hours (for GetFederationToken and GetSes and between 15 minutes and 12 hours (for AssumeRole* APIs), during which time the federated user can access the console. When the session expires, the federated user mus new session by returning to your identity provider, where you can grant them access again. Learn more about setting session duration.

Q: What happens when the identity federation console session times out?

The user is presented with a message stating that the console session has timed out and that they need to request a new session. You can specify a URL to direct users to your intranet web page where they can request a new session. You add this URL when you specify an Issuer parameter as part of your sign-in request. For more information, see Ena 2.0 Federated Users to Access the AWS Management Console.

Q: How many federated users can I give access to the AWS Management Console?

There is no limit to the number of federated users who can be given access to the console.

Q: What is web identity federation?

Web identity federation allows you to create AWS-powered mobile apps that use public identity providers (such as Amazon Cognito, Login with Amazon, Facebook, Google, or Connect-compatible provider) for authentication. With web identity federation, you have an easy way to integrate sign-in from public identity providers (IdPs) into your apps with to write any server-side code and without distributing long-term AWS security credentials with the app.

For more information about web identity federation and to get started, see About Web Identity Federation.

Q: How do I enable web identity federation with accounts from public IdPs?

For best results, use Amazon Cognito as your identity broker for almost all web identity federation scenarios. Amazon Cognito is easy to use and provides additional capabilities anonymous (unauthenticated) access, and synchronizing user data across devices and providers. However, if you have already created an app that uses web identity federation calling the AssumeRoleWithWebIdentity API, you can continue to use it and your apps will still work.

Here are the basic steps to enable identify federation using one of the supported web IdPs:

- 1. Sign up as a developer with the IdP and configure your app with the IdP, who gives you a unique ID for your app.
- 2. If you use an IdP that is compatible with OIDC, create an identity provider entity for it in IAM.
- 3. In AWS, create one or more IAM roles.
- 4. In your application, authenticate your users with the public IdP.

- 5. In your app, make an unsigned call to the AssumeRoleWithWebidentity API to request temporary security credentials.
- 6. Using the temporary security credentials you get in the AssumeRoleWithWebidentity response, your app makes signed requests to AWS APIs.
- 7. Your app caches the temporary security credentials so that you do not have to get new ones each time the app needs to make a request to AWS.

For more detailed steps, see Using Web Identity Federation APIs for Mobile Apps.

Q: How does identity federation using AWS Directory Service differ from using a third-party identity management solution?

If you want your federated users to be able to access only the AWS Management Console, using AWS Directory Service provides similar capabilities compared to using a third-management solution. End users are able to sign in using their existing corporate credentials and access the AWS Management Console. Because AWS Directory Service is a n service, customers do not need to set up or manage federation infrastructure, but rather need to create an AD Connector directory to integrate with their on-premises directory. interested in providing your federated users access to AWS APIs, use a third-party offering, or deploy your own proxy server.

Billing

Q: Does AWS Billing provide aggregated usage and cost breakdowns by user?

No, this is not currently supported.

Q: Does the IAM service cost anything?

No, this is a feature of your AWS account provided at no additional charge.

Q: Who pays for usage incurred by users under an AWS Account?

The AWS account owner controls and is responsible for all usage, data, and resources under the account.

Q: Is billable user activity logged in AWS usage data?

Not currently. This is planned for a future release.

Q: How does IAM compare with Consolidated Billing?

IAM and Consolidated Billing are complementary features. Consolidated Billing enables you to consolidate payment for multiple AWS accounts within your company by designa paying account. The scope of IAM is not related to Consolidated Billing. A user exists within the confines of an AWS account and does not have permissions across linked accompredetails, see Paying Bills for Multiple Accounts Using Consolidated Billing.

Q: Can a user access the AWS accounts billing information?

Yes, but only if you let them. In order for IAM users to access billing information, you must first grant access to the Account Activity or Usage Reports. See Controlling Access.

Additional Questions

Q: What happens if a user tries to access a service that has not yet been integrated with IAM?

The service returns an "Access denied" error.

Q: Are IAM actions logged for auditing purposes?

Yes. You can log IAM actions, STS actions, and AWS Management Console sign-ins by activating AWS CloudTrail. To learn more about AWS logging, see AWS CloudTrail.

Q: Is there any distinction between people and software agents as AWS entities?

No, both of these entities are treated like users with security credentials and permissions. However, people are the only ones to use a password in the AWS Management Consc

Q: Do users work with AWS Support Center and Trusted Advisor?

Yes, IAM users have the ability to create and modify support cases as well as use Trusted Advisor.

Q: Are there any default quota limits associated with IAM?

Yes, by default your AWS account has initial quotas set for all IAM-related entities. For details see Limitations on IAM Entities and Objects.

These quotas are subject to change. If you require an increase, you can access the Service Limit Increase form via the Contact Us page, and choose IAM Groups and Users for Type drop-down list.

Multi-Factor Authentication

Q. What is AWS MFA?

AWS multi-factor authentication (AWS MFA) provides an extra level of security that you can apply to your AWS environment. You can enable AWS MFA for your AWS account a individual AWS Identity and Access Management (IAM) users you create under your account.

Q. How does AWS MFA work?

AWS MFA uses an authentication device that continually generates random, six-digit, single-use authentication codes. There are two primary ways to authenticate using an AW device:

- AWS Management Console users: When a user with MFA enabled signs in to an AWS website, they are prompted for their user name and password (the first factor—what the
 an authentication code from their AWS MFA device (the second factor—what they have). All AWS websites that require sign-in, such as the AWS Management Console, fully s
 MFA. You can also use AWS MFA together with Amazon S3 secure delete for additional protection of your S3 stored versions.
- AWS API users: You can enforce MFA authentication by adding MFA restrictions to your IAM policies. To access APIs and resources protected in this way, developers can re
 temporary security credentials and pass optional MFA parameters in their AWS Security Token Service (STS) API requests (the service that issues temporary security credent
 validated temporary security credentials can be used to call MFA-protected APIs and resources.

Q. How do I get AWS MFA?

You follow two easy steps:

Get an authentication device. You have three options:

- · You can purchase a hardware device that is compatible with AWS MFA from Gemalto, a third party provider.
- · You can install a virtual AWS MFA compatible application on a device such as your smartphone.
- You can sign up for the preview of SMS MFA, which allows you to use the text messaging functionality of your mobile phone to receive security codes (available only for IAM

Visit the MFA page for details on how to acquire a hardware or virtual MFA device and how to set up SMS MFA.

After you have the authentication device, you must activate it. You activate an AWS MFA device for your AWS account or your IAM users in the IAM Console. You can also use to activate it for an IAM user.

Q. Is there a fee associated with using AWS MFA?

AWS does not charge any additional fees for using AWS MFA with your AWS account. However, if you want to use a physical authentication device then you will need to purcha authentication device that is compatible with AWS MFA from Gemalto, a third party provider. For more details, please visit Gemalto's website.

Q. Can I have multiple authentication devices active for my AWS account?

Yes. Each IAM user can have its own authentication device. However, each identity (IAM user or root account) can be associated with only one authentication device.

Q. Can I use my authentication device with multiple AWS accounts?

No. The authentication device or mobile phone number is bound to an individual AWS identity (IAM user or root account). If you have a TOTP-compatible application installed or smartphone, you can create multiple virtual MFA devices on the same smartphone. Each one of the virtual MFA devices is bound to a single identity, just like a hardware device dissociate (deactivate) the authentication device, you can then reuse it with a different AWS identity. The authentication device cannot be used by more than one identity simultates.

Q. I already have a hardware authentication device from my place of work or from another service I use, can I re-use this device with AWS MFA?

No. AWS MFA relies on knowing a unique secret associated with your authentication device in order to support its use. Because of security constraints that mandate such secret shared between multiple parties, AWS MFA cannot support the use of your existing hardware authentication device. Only a compatible hardware authentication device purchase Gemalto can be used with AWS MFA.

Purchasing an MFA Device

Q. I'm having a problem with an order for an authentication device using the third-party provider Gemalto's website. Where can I get help? Gemalto's customer service can assist you.

Q. I received a defective or damaged authentication device from the third party provider Gemalto. Where can I get help? Gemalto's customer service can assist you.

Q. I just received an authentication device from the third party provider Gemalto. What should I do?

You simply need to activate the authentication device to enable AWS MFA for your AWS account. See the IAM console to perform this task.

Provisioning a Virtual MFA Device

Q. What is a virtual MFA device?

A virtual MFA device is an entry created in a TOTP compatible software application that can generate six-digit authentication codes. The software application can run on any co computing device, such as a smartphone.

Q. What are the differences between a virtual MFA device and physical MFA devices?

Virtual MFA devices use the same protocols as the physical MFA devices. Virtual MFA devices are software based and can run on your existing devices such as smartphones. MFA applications also allow you to enable more than one virtual MFA device, which makes them more convenient than physical MFA devices.

Q. Which virtual MFA applications can I use with AWS MFA?

You can use applications that generate TOTP-compliant authentication codes, such as the Google Authenticator application, with AWS MFA. You can provision virtual MFA dev automatically by scanning a QR code with the device's camera or by manual seed entry in the virtual MFA application.

Visit the MFA page for a list of supported virtual MFA applications.

Q. What is a QR code?

A QR code is a two-dimensional barcode that is readable by dedicated QR barcode readers and most smartphones. The code consists of black squares arranged in larger squarent and a white background. The QR code contains the required security configuration information to provision a virtual MFA device in your virtual MFA application.

Q. How do I provision a new virtual MFA device?

You can configure a new virtual MFA device in the IAM console for your IAM users as well as for your AWS root account. You can also use the aws iam create-virtual-mfa-device

in the AWS CLI or the CreateVirtualMFADevice API to provision new virtual MFA devices under your account. The aws iam create-virtual-mfa-device and the CreateVirtualMFAD return the required configuration information, called a seed, to configure the virtual MFA device in your AWS MFA compatible application. You can either grant your IAM users the permissions to call this API directly or perform the initial provisioning for them.

Q. How should I handle and distribute the seed material for virtual MFA devices?

You should treat seed material like any other secret (for example the AWS secret keys and passwords)

Q. How can I enable an IAM user to manage virtual MFA devices under my account?

Grant the IAM user the permission to call the CreateVirtualMFADevice API. You can use this API to provision new virtual MFA devices.

Setting up SMS MFA

Q. How do I begin using the SMS option during the preview?

To sign up for the preview, you must visit the MFA page and register by clicking the SMS MFA sign-up button. After acceptance into the preview, which typically occurs within c business days, you receive a confirmation email with instructions about how to set up SMS MFA. You can then navigate to the IAM console and enable SMS MFA for an IAM us process involves entering a phone number for each IAM user. Then, when the IAM user signs in to the AWS Management Console, the user receives a 6-digit security code via a SMS text message and must enter it during sign-in.

Q. Can I use SMS MFA with root accounts during the preview?

No. Support for the SMS MFA option is limited to IAM users during the preview.

Q. Can I use SMS MFA when assuming temporary security credentials from AWS STS?

No. In the preview, you cannot use SMS MFA when assuming temporary security credentials from AWS STS.

Enabling AWS MFA Devices

Q. Where do I enable AWS MFA?

You can enable AWS MFA for an AWS account and your IAM users in the IAM console, the AWS CLI, or by calling the AWS API.

Q. What information do I need to activate a hardware or virtual authentication device?

If you are activating the MFA device with the IAM console then you only need the device. If you are using the AWS CLI or the IAM API then you need the following:

- 1. The serial number of the authentication device. The format of the serial number depends on whether you are using a hardware device or a virtual device:
 - Hardware MFA device: The serial number is on the bar-coded label on the back of the device.
 - Virtual MFA device: The serial number is the Amazon Resource Name (ARN) value returned when you run the iam-virtualmfadevicecreate command in the AWS CI CreateVirtualMFADevice API.
- 2. Two consecutive authentication codes displayed by the authentication device.

Q. My authentication device seems to be working normally, but I am not able to activate it. What should I do?

Please contact us for help.

Using AWS MFA

Q. If I enable AWS MFA for my AWS root account or my IAM users, do they always need to use an authentication code to sign in to the AWS Portal or AWS Manageme

Yes. The AWS account and your IAM users must have their MFA device with them any time they need to sign in any AWS site.

If the authentication device associated with the AWS root account is damaged, lost, stolen, or stops working, you can contact us for help with disabling AWS MFA for the root a allows you to temporarily sign in to AWS using just the user name and password for the AWS account.

With virtual and hardware MFA, if your IAM users lose or damage their authentication device or if it is stolen or stops working, you can disable AWS MFA yourself using the IAM the AWS CLI. With SMS MFA, there is no disruption to MFA if you acquire a new mobile phone that retains the same phone number.

Q. If I enable AWS MFA for my AWS root account or IAM users, do they always need to enter an MFA code to directly call AWS APIs?

No, it's optional. However, you must enter an MFA code if you plan to call APIs that are secured by MFA-protected API access.

If you are calling AWS APIs using access keys for your AWS root account or IAM user, you do not need to enter an MFA code. For security reasons, we recommend that you rer access keys from your AWS root account and instead call AWS APIs with the access keys for an IAM user that has the required permissions.

Q. How do I sign in to the AWS Portal and AWS Management Console using my authentication device?

Follow these two steps:

If you are signing in as an AWS root account, sign in as usual with your user name and password when prompted. To sign in as an IAM user, use the account-specific URL and user name and password when prompted.

On the next page, enter the six-digit authentication code that appears on your authentication device.

Q. Does AWS MFA affect how I access AWS Service APIs?

AWS MFA changes the way IAM users access AWS Service APIs only if the account administrator(s) choose to enable MFA-protected API access. Administrators may enable the

add an extra layer of security over access to sensitive APIs by requiring that callers authenticate with an AWS MFA device. For more information, see the MFA-protected API ac documentation in more detail.

Other exceptions include S3 PUT bucket versioning, GET bucket versioning, and DELETE object APIs, which allow you to require MFA authentication to delete or change the ve state of your bucket. For more information see the S3 documentation discussing Configuring a Bucket with MFA Delete in more detail.

For all other cases, AWS MFA does not currently change the way you access AWS service APIs.

Q. Can I use a given authentication code more than once?

No. For security reasons, you can use each authentication code only once.

Q. I was recently asked to resync my authentication device because my authentication codes were being rejected. Should I be concerned?

No, this can happen occasionally. AWS MFA relies on the clock in your authentication device being in sync with the clock on our servers. Sometimes, these clocks can drift apa happens, when you use the authentication device to sign in to access secure pages on the AWS website or the AWS Management Console, AWS automatically attempts to resy authentication device by requesting that you provide two consecutive authentication codes (just as you did during activation).

Q. My authentication device seems to be working normally, but I am not able to use it to sign in to the AWS Management Console. What should I do?

We suggest you try resyncing the authentication device using Troubleshoot Your Authentication Device if your MFA device protects your AWS root account credentials (requires Synchronize MFA Devices for your IAM user's credentials. If you already tried to resync and are still having trouble signing in, please contact us for help.

Q. My authentication device is lost, damaged, or stolen, and now I can't sign in to the AWS Management Console. What should I do?

If the authentication device is associated with an AWS root account, follow these steps:

Contact us for help with disabling AWS MFA so you can temporarily access the AWS Management Console using just your user name and password.

Be sure to change your Amazon password in case an attacker has stolen your authentication device and might also have your current password.

Purchase a new authentication device from the third party provider Gemalto using their website or provision a new virtual MFA device under your account using the IAM console

When you complete the preceding steps, use the IAM console to activate the new authentication device to reenable AWS MFA for your AWS account.

If the authentication device is associated with an IAM user, you can use the IAM console, AWS CLI, or AWS API to remove the MFA device for the IAM user. If you are using SM the IAM user, there is no disruption to MFA if you acquire a new mobile phone that retains the same phone number.

Q. My physical authentication device has stopped working and now I can't sign in to the AWS Portal or AWS Management Console. What should I do?

If the physical authentication device is associated with an AWS root account, follow these steps:

Contact us for help with disabling AWS MFA so you can temporarily access the AWS Management Console using just your user name and password.

Contact the third party provider Gemalto for further assistance with the authentication device.

When you have another authentication device, come back to the AWS website and activate the authentication device to reenable AWS MFA for your AWS account, just as before

If the authentication device is associated with an IAM user, the user should contact the person who provided the IAM user name and password.

Q. How do I disable AWS MFA?

To disable AWS MFA for your AWS account, you can deactivate your authentication device using the Security Credentials page. To disable AWS MFA for your IAM users, you not lead to console or the AWS CLI.

Q. Can I use AWS MFA in GovCloud?

Yes, you can use AWS virtual MFA and hardware MFA devices in GovCloud.

MFA-protected API access

Q. What is MFA-protected API access?

MFA-protected API access is optional functionality that lets account administrators enforce additional authentication for customer-specified APIs by requiring that users provide authentication factor in addition to a password. Specifically, it enables administrators to include conditions in their IAM policies that check for and require MFA authentication for selected APIs. Users making calls to those APIs must first get temporary credentials that indicate the user entered a valid MFA code.

Q. What problem does MFA-protected API access solve?

Previously, customers could require MFA for access to the AWS Management Console, but could not enforce MFA requirements on developers and applications interacting dire AWS service APIs. MFA-protected API access ensures that IAM policies are universally enforced regardless of access path. As a result, you can now develop your own applicat AWS and prompts the user for MFA authentication before calling powerful APIs or accessing sensitive resources.

Q. How do I get started with MFA-protected API access?

You can get started in two simple steps:

- 1. Assign an MFA device to your IAM users. You can purchase a hardware key fob, use SMS MFA with any SMS-compatible mobile phone, or download a free TOTP-compatible application for your smart phone, tablet, or computer. See the MFA detail page for more information on AWS MFA devices.
- 2. Enable MFA-protected API access by creating permission policies for the IAM users and/or IAM groups from which you want to require MFA authentication. To learn more al policy language syntax, see the access policy language documentation.

Q. How do developers and users access APIs and resources secured with MFA-protected API access?

Developers and users interact with MFA-protected API access both in the AWS Management Console and at the APIs.

In the AWS Management Console, any MFA-enabled IAM user must authenticate with their device to sign in. Users that do not have MFA do not receive access to MFA-protect resources.

At the API level, developers can integrate AWS MFA into their applications to prompt users to authenticate using their assigned MFA devices before calling powerful APIs or acc sensitive resources. Developers enable this functionality by adding optional MFA parameters (serial number and MFA code) to requests to obtain temporary security credentials requests are also referred to as "session requests"). If the parameters are valid, temporary security credentials that indicate MFA status are returned. See the temporary security documentation for more information.

Q. Who can use MFA-protected API access?

MFA-protected API access is available for free to all AWS customers.

Q. Which services does MFA-protected API access work with?

MFA-protected API access is supported by all AWS services that support temporary security credentials. For a list of supported services, see AWS Services that Work with IAM the column labeled Supports temporary security credentials.

Q. What happens if a user provides incorrect MFA device information when requesting temporary security credentials?

The request to issue temporary security credentials fails. Temporary security credential requests that specify MFA parameters must provide the correct serial number of the dev the IAM user as well as a valid MFA code.

Q. Does MFA-protected API access control API access for AWS root accounts?

No, MFA-protected API access only controls access for IAM users. Root accounts are not bound by IAM policies, which is why we recommend that you create IAM users to inte AWS service APIs rather than use AWS root account credentials.

Q. Do users have to have an MFA device assigned to them in order to use MFA-protected API access?

Yes, a user must first be assigned a unique virtual, hardware, or SMS MFA device.

Q. Is MFA-protected API access compatible with S3 objects, SQS queues, and SNS topics?

Yes

Q. How does MFA-protected API access interact with existing MFA use cases such as S3 MFA Delete?

MFA-protected API access and S3 MFA Delete do not interact with each other. S3 MFA Delete currently does not support temporary security credentials. Instead, calls to the Si Delete API must be made using long-term access keys.

Q. Does MFA-protected API access work in the GovCloud (US) region?

Yes.

Q. Does MFA-protected API access work for federated users?

Customers cannot use MFA-protected API access to control access for federated users. The GetFederatedSession API does not accept MFA parameters. Since federated users authenticate with AWS MFA devices, they are unable to access resources designated using MFA-protected API access.

Q. Can I use SMS MFA when assuming temporary security credentials form AWS STS?

During the preview, you cannot use SMS MFA when assuming temporary security credentials from AWS STS.

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