

Multiple policy types

When multiple types of policies apply to a request, the resulting permissions are more complicated to understand. To learn how AWS determines whether to allow a request when multiple policy types are involved, see [Policy evaluation logic](#) in the *IAM User Guide*.

How Amazon Bedrock works with IAM

Before you use IAM to manage access to Amazon Bedrock, learn what IAM features are available to use with Amazon Bedrock.

IAM features you can use with Amazon Bedrock

IAM feature	Amazon Bedrock support
Identity-based policies	Yes
Resource-based policies	No
Policy actions	Yes
Policy resources	Yes
Policy condition keys	Yes
ACLs	No
ABAC (tags in policies)	Yes
Temporary credentials	Yes
Principal permissions	Yes
Service roles	Yes
Service-linked roles	No

To get a high-level view of how Amazon Bedrock and other AWS services work with most IAM features, see [AWS services that work with IAM](#) in the *IAM User Guide*.

Identity-based policies for Amazon Bedrock

Supports identity-based policies: Yes

Identity-based policies are JSON permissions policy documents that you can attach to an identity, such as an IAM user, group of users, or role. These policies control what actions users and roles can perform, on which resources, and under what conditions. To learn how to create an identity-based policy, see [Define custom IAM permissions with customer managed policies](#) in the *IAM User Guide*.

With IAM identity-based policies, you can specify allowed or denied actions and resources as well as the conditions under which actions are allowed or denied. To learn about all of the elements that you can use in a JSON policy, see [IAM JSON policy elements reference](#) in the *IAM User Guide*.

Identity-based policy examples for Amazon Bedrock

To view examples of Amazon Bedrock identity-based policies, see [Identity-based policy examples for Amazon Bedrock](#).

Resource-based policies within Amazon Bedrock

Supports resource-based policies: No

Resource-based policies are JSON policy documents that you attach to a resource. Examples of resource-based policies are IAM *role trust policies* and Amazon S3 *bucket policies*. In services that support resource-based policies, service administrators can use them to control access to a specific resource. For the resource where the policy is attached, the policy defines what actions a specified principal can perform on that resource and under what conditions. You must [specify a principal](#) in a resource-based policy. Principals can include accounts, users, roles, federated users, or AWS services.

To enable cross-account access, you can specify an entire account or IAM entities in another account as the principal in a resource-based policy. For more information, see [Cross account resource access in IAM](#) in the *IAM User Guide*.

Policy actions for Amazon Bedrock

Supports policy actions: Yes

Administrators can use AWS JSON policies to specify who has access to what. That is, which **principal** can perform **actions** on what **resources**, and under what **conditions**.

The Action element of a JSON policy describes the actions that you can use to allow or deny access in a policy. Include actions in a policy to grant permissions to perform the associated operation.

To see a list of Amazon Bedrock actions, see [Actions defined by Amazon Bedrock](#) in the *Service Authorization Reference*.

Policy actions in Amazon Bedrock use the following prefix before the action:

```
bedrock
```

To specify multiple actions in a single statement, separate them with commas.

```
"Action": [  
    "bedrock:action1",  
    "bedrock:action2"  
]
```

To view examples of Amazon Bedrock identity-based policies, see [Identity-based policy examples for Amazon Bedrock](#).

Policy resources for Amazon Bedrock

Supports policy resources: Yes

Administrators can use AWS JSON policies to specify who has access to what. That is, which **principal** can perform **actions** on what **resources**, and under what **conditions**.

The Resource JSON policy element specifies the object or objects to which the action applies. As a best practice, specify a resource using its [Amazon Resource Name \(ARN\)](#). For actions that don't support resource-level permissions, use a wildcard (*) to indicate that the statement applies to all resources.

```
"Resource": "*"
```

To see a list of Amazon Bedrock resource types and their ARNs, see [Resources defined by Amazon Bedrock](#) in the *Service Authorization Reference*. To learn with which actions you can specify the ARN of each resource, see [Actions defined by Amazon Bedrock](#).

Some Amazon Bedrock API actions support multiple resources. For example, [AssociateAgentKnowledgeBase](#) accesses **AGENT12345** and **KB12345678**, so a principal must have permissions to access both resources. To specify multiple resources in a single statement, separate the ARNs with commas.

```
"Resource": [  
    "arn:aws:bedrock:aws-region:111122223333:agent/AGENT12345",  
    "arn:aws:bedrock:aws-region:111122223333:knowledge-base/KB12345678"  
]
```

To view examples of Amazon Bedrock identity-based policies, see [Identity-based policy examples for Amazon Bedrock](#).

Policy condition keys for Amazon Bedrock

Supports service-specific policy condition keys: Yes

Administrators can use AWS JSON policies to specify who has access to what. That is, which **principal** can perform **actions** on what **resources**, and under what **conditions**.

The Condition element specifies when statements execute based on defined criteria. You can create conditional expressions that use [condition operators](#), such as equals or less than, to match the condition in the policy with values in the request. To see all AWS global condition keys, see [AWS global condition context keys](#) in the *IAM User Guide*.

To see a list of Amazon Bedrock condition keys, see [Condition Keys for Amazon Bedrock](#) in the *Service Authorization Reference*. To learn with which actions and resources you can use a condition key, see [Actions defined by Amazon Bedrock](#).

All Amazon Bedrock actions support condition keys using Amazon Bedrock models as the resource.

To view examples of Amazon Bedrock identity-based policies, see [Identity-based policy examples for Amazon Bedrock](#).

ACLs in Amazon Bedrock

Supports ACLs: No

Access control lists (ACLs) control which principals (account members, users, or roles) have permissions to access a resource. ACLs are similar to resource-based policies, although they do not use the JSON policy document format.

ABAC with Amazon Bedrock

Supports ABAC (tags in policies): Yes

Attribute-based access control (ABAC) is an authorization strategy that defines permissions based on attributes called tags. You can attach tags to IAM entities and AWS resources, then design ABAC policies to allow operations when the principal's tag matches the tag on the resource.

To control access based on tags, you provide tag information in the [condition element](#) of a policy using the `aws:ResourceTag/key-name`, `aws:RequestTag/key-name`, or `aws:TagKeys` condition keys.

If a service supports all three condition keys for every resource type, then the value is **Yes** for the service. If a service supports all three condition keys for only some resource types, then the value is **Partial**.

For more information about ABAC, see [Define permissions with ABAC authorization](#) in the *IAM User Guide*. To view a tutorial with steps for setting up ABAC, see [Use attribute-based access control \(ABAC\)](#) in the *IAM User Guide*.

Using temporary credentials with Amazon Bedrock

Supports temporary credentials: Yes

Temporary credentials provide short-term access to AWS resources and are automatically created when you use federation or switch roles. AWS recommends that you dynamically generate temporary credentials instead of using long-term access keys. For more information, see [Temporary security credentials in IAM](#) and [AWS services that work with IAM](#) in the *IAM User Guide*.

Cross-service principal permissions for Amazon Bedrock

Supports forward access sessions (FAS): Yes

Forward access sessions (FAS) use the permissions of the principal calling an AWS service, combined with the requesting AWS service to make requests to downstream services. For policy details when making FAS requests, see [Forward access sessions](#).

Service roles for Amazon Bedrock

Supports service roles: Yes

A service role is an [IAM role](#) that a service assumes to perform actions on your behalf. An IAM administrator can create, modify, and delete a service role from within IAM. For more information, see [Create a role to delegate permissions to an AWS service](#) in the *IAM User Guide*.

Warning

Changing the permissions for a service role might break Amazon Bedrock functionality. Edit service roles only when Amazon Bedrock provides guidance to do so.

Service-linked roles for Amazon Bedrock

Supports service-linked roles: No

A service-linked role is a type of service role that is linked to an AWS service. The service can assume the role to perform an action on your behalf. Service-linked roles appear in your AWS account and are owned by the service. An IAM administrator can view, but not edit the permissions for service-linked roles.

Identity-based policy examples for Amazon Bedrock

By default, users and roles don't have permission to create or modify Amazon Bedrock resources. To grant users permission to perform actions on the resources that they need, an IAM administrator can create IAM policies.

To learn how to create an IAM identity-based policy by using these example JSON policy documents, see [Create IAM policies \(console\)](#) in the *IAM User Guide*.

For details about actions and resource types defined by Amazon Bedrock, including the format of the ARNs for each of the resource types, see [Actions, Resources, and Condition Keys for Amazon Bedrock](#) in the *Service Authorization Reference*.

Topics

- [Policy best practices](#)
- [Use the Amazon Bedrock console](#)
- [Allow users to view their own permissions](#)
- [Deny access for inference of foundation models](#)
- [Allow users to invoke a provisioned model](#)
- [Identity-based policy examples for Amazon Bedrock Agents](#)