



HYCU for AWS Identity and Access Management (IAM)

R-Cloud Module Guide

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About the module

With the R-Cloud (formerly HYCU Protégé) module for AWS Identity and Access Management (IAM), you can back up your IAM entities, policies, and identity provider configurations securely and efficiently.

Prerequisites

Before you add the module to R-Cloud as a source, the following prerequisites must be fulfilled:

- An AWS account is required.
- The HycuPolicy JSON policy document in the AWS management console requires you to manually add two statements.

See [Protecting data](#) for details.

Limitations

When adding the module and while protecting the related SaaS application, the following limitations apply:

- The created or modified timestamps will not be preserved during the restore. The timestamps are recreated.
- The object IDs are changed during the restore because they are recreated.
- The AWS account administrator must reconfigure the console access settings after restoring the IAM User.
- The exact policy version number is not preserved if more than five versions of a customer-managed policy are created. During the policy restore, the API creates policy versions sequentially starting from v1 by default.

Protecting data

R-Cloud starts protecting your AWS IAM data after you complete the following tasks:

1. Add the module as a source to R-Cloud. For instructions on how to add the module as a source, see *HYCU R-Cloud Help*.
2. Add your AWS account as a source in R-Cloud. For instructions on how to add your AWS account as a source, see *HYCU R-Cloud Help*.

Note When adding the AWS account as a source, make sure you sign into your AWS account by using the account root user or an IAM user with administrative permissions.

3. Edit the AWS JSON policy document. For instructions, see [Editing the HycuPolicy JSON policy file](#).
4. Assign a policy to the related SaaS application. For instructions, see *HYCU R-Cloud Help*.

Editing the HycuPolicy JSON policy file

In the IAM Management Console, click **Roles**, and then **HycuRole**. Click **HycuPolicy** to edit the policy. Append the below two statements to the existing HycuPolicy JSON policy document:

- Statement 1:

```
{
  "Effect": "Allow",
  "Action": [
    "iam: UpdateAssumeRolePolicy",
    "iam: GetPolicyVersion",
    "iam: GetAccountPasswordPolicy",
    "iam: ListRoleTags",
    "iam: CreateRole",
    "iam: AttachRolePolicy",
    "iam: PutRolePolicy",
    "iam: TagSAMLProvider",
    "iam: AddRoleToInstanceProfile",
```

"iam: ListAttachedRolePolicies",
 "iam: ListOpenIDConnectProviderTags",
 "iam: ListSAMLProviderTags",
 "iam: ListRolePolicies",
 "iam: PutGroupPolicy",
 "iam: ListPolicies",
 "iam: GetRole",
 "iam: CreateGroup",
 "iam: ListSAMLProviders",
 "iam: GetPolicy",
 "iam: ListEntitiesForPolicy",
 "iam: AttachUserPolicy",
 "iam: TagPolicy",
 "iam: UpdateAccountPasswordPolicy",
 "iam: GetUserPolicy",
 "iam: ListGroupsForUser",
 "iam: GetGroupPolicy",
 "iam: GetOpenIDConnectProvider",
 "iam: GetRolePolicy",
 "iam: CreateInstanceProfile",
 "iam: PutRolePermissionsBoundary",
 "iam: TagRole",
 "iam: ListInstanceProfileTags",
 "iam: CreateSAMLProvider",
 "iam: CreateUser",
 "iam: GetGroup",
 "iam: ListInstanceProfilesForRole",
 "iam: AddUserToGroup",
 "iam: ListAttachedUserPolicies",
 "iam: ListAttachedGroupPolicies",
 "iam: ListPolicyTags",
 "iam: CreatePolicyVersion",
 "iam: GetSAMLProvider",
 "iam: GetInstanceProfile",
 "iam: ListGroupPolicies",
 "iam: PutUserPermissionsBoundary",
 "iam: ListRoles",
 "iam: ListUserPolicies",
 "iam: TagUser",
 "iam: CreateOpenIDConnectProvider",

```

    "iam: CreatePolicy",
    "iam: CreateServiceLinkedRole",
    "iam: ListPolicies",
    "iam: ListOpenIDConnectProviders",
    "iam: AttachGroupPolicy",
    "iam: PutUserPolicy",
    "iam: ListUsers",
    "iam: GetUser",
    "iam: ListGroups",
    "iam: AddClientIDToOpenIDConnectProvider",
    "iam: TagOpenIDConnectProvider",
    "iam: TagInstanceProfile",
    "iam: SetDefaultPolicyVersion",
    "iam: ListUserTags",
    "iam: PassRole"
  ],
  "Resource": "*"
}

```

- **Statement 2**

```

{
  "Effect": "Allow",
  "Action": [
    "sts:GetAccessKeyInfo"
  ],
  "Resource": "*"
}

```

Backing up data

After configuring the AWS Account and adding the AWS IAM as a source in R-Cloud, all AWS IAM entities, policies and identity providers are automatically discovered.

For details on how to configure the backup for the SaaS application data, see *HYCU R-Cloud Help*.

The supported objects are:

- Users

- Their affiliated permissions policies, permissions boundary, groups, and tags
- Groups
 - Their affiliated permissions policies, permissions boundary, and users
- Roles
 - Trust policy
 - Their affiliated permissions policies, permissions boundary, tags, and instance profiles
- Policies (customer-managed)
 - Their permissions, attached entities, policy versions, and tags
- Identity Providers
 - Configuration
 - Their affiliated tags and roles
- Account Custom Password Policy

Restoring data

R-Cloud allows you to restore the protected AWS IAM data on the following levels:

- User
- Group
- Role
- Policy
- Identity Provider
- Account Custom Password Policy

Note

When restoring your AWS IAM data, all hierarchical relations among the content items are preserved on every level.

When restoring the Identity Provider, all the affiliated roles, role policies, and the existing attached entities of policies will also be restored.

For details on how to restore the SaaS application data, see *HYCU R-Cloud Help*.

Provide feedback

For any suggestions and comments regarding this product or its documentation, send us an e-mail to:

info@hycu.com

We will be glad to hear from you!

