



# HYCU for Amazon DynamoDB

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R-Cloud Module Guide

## Table of Contents

About the module.....	3
Prerequisites.....	3
Limitations .....	3
Protecting data.....	3
Backup.....	4
Restore .....	4

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# About the module

The R-Cloud (formerly HYCU Protégé) module for Amazon DynamoDB enables you to protect the data stored in your DynamoDB database.

## Prerequisites

Before you can add the Amazon DynamoDB module to R-Cloud as a source, the AWS account that you use to access the DynamoDB database must be allowed to:

- Create, restore, and delete the DynamoDB database table backups. These abilities are included in the `AmazonDynamoDBFullAccess` policy.
- Call the `EC2 DescribeRegions` API. This ability is included in the `AmazonEC2ReadOnlyAccess` role, and is also included in the `ec2:DescribeRegions` permission.
- Read the KMS key metadata. The permission that allows this action is `kms:ListKeys`. This permission is included in the `AWSKeyManagementServicePowerUser` policy.
- Restore the Amazon Kinesis data stream. To allow this action, the `AmazonKinesisFullAccess` policy must be assigned to your AWS account.

## Limitations

- The tags that you use to categorize your resources cannot be restored.
- Up to 50 concurrent restores are possible for a single AWS account.
- The autoscaling settings cannot be restored.

## Protecting data

R-Cloud starts protecting your Amazon DynamoDB databases after you add the module as a source to R-Cloud and assign a policy to the related SaaS application.

For details on how to add the module as a source, see *HYCU R-Cloud Help*.

**Note** R-Cloud module for DynamoDB backs up the data using snapshots that are stored in the AWS backup vault. Therefore, you cannot select a staging target when adding DynamoDB as a source in R-Cloud.

# Backup

After configuring Amazon DynamoDB as a source in R-Cloud, the following resources can be backed up:

- Tables
- Global and secondary indexes
- Data streams
- The provisioned read and write capacity

**Note** The DynamoDB snapshots are used for backups. The backup data is not copied to S3 but remains in the AWS vault.

The name of the created backup is set to the name of the original table with appended `-hycu-backup-yyyymmdd-hhmmss`.

## Example

The snapshot of the table named `table1` would be: `table1-hycu-backup-snapshot-20230301-114301`.

The existing backups are listed at the bottom of Amazon DynamoDB management console. For details on how to create a backup in DynamoDB, see the Amazon DynamoDB documentation.

For details on how to configure backups for DynamoDB, see *HYCU R-Cloud Help*.

# Restore


R-Cloud allows restoring the DynamoDB tables from the backup.

For details on how to configure the restore for your DynamoDB, see *HYCU R-Cloud Help*.

The following restore options are supported:

- Restoring to a different region
- Restoring of any subset of local and global secondary indexes
- Restoring a resource to its original state, including the resource name (in-place restore)

The automatically restored options are Point-in-time recovery (PITR), Time to Live (TTL), Amazon Kinesis data stream, and DynamoDB stream support.

 **Note** These options are always restored. Their restore cannot be enabled or disabled by using the Restore dialog box in R-Cloud.

For the restored resource, the restore configuration in R-Cloud allows you to define:

- The name
- The region
- The KMS key to encrypt the restored resource
- The selection of global and secondary indexes

# Provide feedback

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

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We will be glad to hear from you!

