Red Hat Advanced Cluster Security for Kubernetes 4.4

Troubleshooting Central

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Last Updated: 2024-04-22

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Abstract

Use this guide to learn how to backup and restore Central database by using the roxctl CLI.

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CHAPTER 1. BACKING UP CENTRAL DATABASE BY USING THE ROXCTL CLI

Central stores information about the following:

- Activity observed in your clusters
- Information retrieved from integrated image registries or Scanners
- Red Hat Advanced Cluster Security for Kubernetes (RHACS) configuration

Backing up the Central database is critical to ensure data integrity and system reliability. Regular backups of the database, which contain the necessary configurations, resources, events, and certificates, protect against database failures, corruption, and accidental data loss.

You can use the **roxctl** CLI to back up and restore the Central database by using the **backup** command. This command requires an API token or your administrator password.

1.1. ON-DEMAND BACKUPS BY USING AN API TOKEN

You can back up the entire database of RHACS by using an API token.

Prerequisites

- You have an API token with the **Admin** role.
- You have installed the **roxctl** CLI.

Procedure

1. Set the **ROX_API_TOKEN** and the **ROX_ENDPOINT** environment variables by running the following commands:

```
$ export ROX_API_TOKEN=<api_token>
```

```
$ export ROX_ENDPOINT=<address>:<port_number>
```

2. Initiate a backup for Central by running the following command:

```
$ roxctl central backup 1
```

1 You can use the **--output** option to specify the backup file location.

By default, the **roxctl** CLI saves the backup file in the directory where you run the command.

Additional resources

- System roles

1.2. ON-DEMAND BACKUPS BY USING THE ADMINISTRATOR PASSWORD

You can back up the entire database of RHACS by using your administrator password.

Prerequisites

- You have the administrator password.
- You have installed the **roxctl** CLI.

Procedure

1. Set the **ROX_ENDPOINT** environment variable by running the following command:

   ```
   $ export ROX_ENDPOINT=<address>:<port_number>
   ```

2. Initiate a backup for Central by running the following command:

   ```
   $ roxctl -p <admin_password> central backup 1
   ```

   1 For **<admin_password>**, specify the administrator password.

   By default, the **roxctl** CLI saves the backup file in the directory in which you run the command. You can use the **--output** option to specify the backup file location.

CHAPTER 2. RESTORING CENTRAL DATABASE BY USING THE ROXCTL CLI

You can use the **roxctl** CLI to restore Red Hat Advanced Cluster Security for Kubernetes (RHACS) by using the **restore** command. This command requires an API token or your administrator password.

2.1. RESTORING BY USING AN API TOKEN

You can restore the entire database of RHACS by using an API token.

Prerequisites

- You have a RHACS backup file.
- You have an API token with the administrator role.
- You have installed the **roxctl** CLI.

Procedure

1. Set the **ROX_API_TOKEN** and the **ROX_ENDPOINT** environment variables by running the following commands:

```
$ export ROX_API_TOKEN=<api_token>
```

```
$ export ROX_ENDPOINT=<address>:<port_number>
```

2. Restore the Central database by running the following command:

```
$ roxctl central db restore <backup_file> 1
```

1 For **<backup_file>**, specify the name of the backup file that you want to restore.

2.2. RESTORING BY USING THE ADMINISTRATOR PASSWORD

You can restore the entire database of RHACS by using your administrator password.

Prerequisites

- You have a RHACS backup file.
- You have the administrator password.
- You have installed the **roxctl** CLI.

Procedure

1. Set the **ROX_ENDPOINT** environment variable by running the following command:

```
$ export ROX_ENDPOINT=<address>:<port_number>
```

2. Restore the Central database by running the following command:

```
$ roxctl -p <admin_password> \ 1
  central db restore <backup_file> 2
```

1 For **<admin_password>**, specify the administrator password.

2 For **<backup_file>**, specify the name of the backup file that you want to restore.

2.3. RESUMING THE RESTORE OPERATION

If your connection is interrupted during a restore operation or you need to go offline, you can resume the restore operation.

- If you do not have access to the machine running the resume operation, you can use the **roxctl central db restore status** command to check the status of an ongoing restore operation.
- If the connection is interrupted, the **roxctl** CLI automatically attempts to restore a task as soon as the connection is available again. The automatic connection retries depend on the duration specified by the **timeout** option.
- Use the **--timeout** option to specify the time in seconds, minutes or hours after which the **roxctl** CLI stops trying to resume a restore operation. If the option is not specified, the default timeout is 10 minutes.
- If a restore operation gets stuck or you want to cancel it, use the **roxctl central db restore cancel** command to cancel a running restore operation.
- If a restore operation is stuck, you have canceled it, or the time has expired, you can resume the previous restore by running the original command again.

IMPORTANT

- During interruptions, RHACS caches an ongoing restore operation for 24 hours. You can resume this operation by executing the original restore command again.
- The **--timeout** option only controls the client-side connection retries and has no effect on the server-side restore cache of 24 hours.
- You cannot resume restores across Central pod restarts.
- If a restore operation is interrupted, you must restart it within 24 hours and before restarting Central, otherwise RHACS cancels the restore operation.