



# **Backup strategy for SAP HANA databases**

SnapCenter software

NetApp

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# Backup strategy for SAP HANA databases

## Define a backup strategy for SAP HANA databases

Defining a backup strategy before you create your backup jobs helps you to have the backups that you require to successfully restore or clone your resources. Your service-level agreement (SLA), recovery time objective (RTO), and recovery point objective (RPO) largely determine your backup strategy.

### About this task

An SLA defines the level of service that is expected and addresses many service-related issues, including the availability and performance of the service. RTO is the time by which a business process must be restored after a disruption in service. RPO defines the strategy for the age of the files that must be recovered from backup storage for regular operations to resume after a failure. SLA, RTO, and RPO contribute to the data protection strategy.

### Steps

1. Determine when you should back up your resources.
2. Decide how many backup jobs you require.
3. Decide how to name your backups.
4. Decide whether you want to create a Snapshot copy-based policy to back up application-consistent Snapshots of the database.
5. Decide whether you want to verify the integrity of the database.
6. Decide whether you want to use NetApp SnapMirror technology for replication or NetApp SnapVault technology for long-term retention.
7. Determine the retention period for the Snapshots on the source storage system and the SnapMirror destination.
8. Determine whether you want to run any commands before or after the backup operation and provide a prescript or postscript.

## Automatic discovery of resources on Linux host

Resources are SAP HANA databases and Non-data Volume on the Linux host that are managed by SnapCenter. After installing the SnapCenter Plug-in for SAP HANA Database plug-in, the SAP HANA databases on that Linux host are automatically discovered and displayed in the Resources page.

Automatic discovery is supported for the following SAP HANA resources:

- Single containers

After installing or upgrading the plug-in, the single container resources located on a centralized host plug-in will continue as manually added resources.

After installing or upgrading the plug-in, the SAP HANA databases are automatically discovered only on the SAP HANA Linux hosts, which are directly registered into SnapCenter.

- Multitenant database container (MDC)

After installing or upgrading the plug-in, the MDC resources located on a centralized host plug-in will continue as manually added resource.

You must continue to manually add the MDC resources on the centralized host plug-in after upgrading to SnapCenter 4.3.

For SAP HANA Linux hosts directly registered in SnapCenter, installing or upgrading the plug-in will trigger an automatic discovery for resources on the host. After upgrading the plug-in, for every MDC resource that was located on the plug-in host, another MDC resource will be automatically discovered with a different GUID format and registered in SnapCenter. The new resource will be in locked state.

For example, in SnapCenter 4.2, if E90 MDC resource was located on the plug-in host and registered manually, after upgrading to SnapCenter 4.3, another E90 MDC resource with a different GUID will be discovered and registered in SnapCenter.

Automatic discovery is not supported for the following configurations:

- RDM and VMDK layouts



In case the above resources are discovered, the data protection operations are not supported on these resources.

- HANA multiple-host configuration
- Multiple instances on the same host
- Multitier scale out HANA System Replication
- Cascaded replication environment in System Replication mode

## Type of backups supported

Backup type specifies the type of backup that you want to create. SnapCenter supports File-Based Backup and Snapshot copy-based backup types for SAP HANA databases.

### File-Based Backup

File-Based Backups verify the integrity of the database. You can schedule the file-based backup operation to occur at specific intervals. Only active tenants are backed up. You cannot restore and clone File-Based backups from SnapCenter.

### Snapshot copy based backup

Snapshot copy-based backups leverage NetApp Snapshot technology to create online, read-only copies of the volumes on which the SAP HANA databases reside.

## How SnapCenter Plug-in for SAP HANA Database uses consistency group Snapshots

You can use the plug-in to create consistency group Snapshots for resource groups. A

consistency group is a container that can house multiple volumes so that you can manage them as one entity. A consistency group is simultaneous Snapshots of multiple volumes, providing consistent copies of a group of volumes.

You can also specify the wait time for the storage controller to consistently group Snapshots. The available wait time options are **Urgent**, **Medium**, and **Relaxed**. You can also enable or disable Write Anywhere File Layout (WAFL) sync during consistent group Snapshot operation. WAFL sync improves the performance of a consistency group Snapshot.

## How SnapCenter manages housekeeping of log and data backups

SnapCenter manages the housekeeping of log and data backups on the storage system and file system levels, and within the SAP HANA backup catalog.

The Snapshots on the primary or secondary storage and their corresponding entries in the SAP HANA catalog are deleted based on the retention settings. The SAP HANA catalog entries are also deleted during backup and resource group deletion.

## Considerations for determining backup schedules for SAP HANA database

The most critical factor in determining a backup schedule is the rate of change for the resource. You might back up a heavily used resource every hour, while you might back up a rarely used resource once a day. Other factors include the importance of the resource to your organization, your service-level agreement (SLA) and your recovery point objective (RPO).

Backup schedules have two parts, as follows:

- Backup frequency (how often backups are to be performed)

Backup frequency, also called schedule type for some plug-ins, is part of a policy configuration. For example, you might configure the backup frequency as hourly, daily, weekly, or monthly.

- Backup schedules (exactly when backups are to be performed)

Backup schedules are part of a resource or resource group configuration. For example, if you have a resource group that has a policy configured for weekly backups, you might configure the schedule to back up every Thursday at 10:00 p.m.

## Number of backup jobs needed for SAP HANA databases

Factors that determine the number of backup jobs that you need include the size of the resource, the number of volumes used, the rate of change of the resource, and your Service Level Agreement (SLA).

# Backup naming conventions for Plug-in for SAP HANA databases

You can either use the default Snapshot naming convention or use a customized naming convention. The default backup naming convention adds a timestamp to Snapshot names that helps you identify when the copies were created.

The Snapshot uses the following default naming convention:

```
resourcegroupname_hostname_timestamp
```

You should name your backup resource groups logically, as in the following example:

```
dts1_mach1x88_03-12-2015_23.17.26
```

In this example, the syntax elements have the following meanings:

- *dts1* is the resource group name.
- *mach1x88* is the host name.
- *03-12-2015\_23.17.26* is the date and timestamp.

Alternatively, you can specify the Snapshot name format while protecting resources or resource groups by selecting **Use custom name format for Snapshot copy**. For example, `customtext_resourcegroup_policy_hostname` or `resourcegroup_hostname`. By default, the time stamp suffix is added to the Snapshot name.

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