



SnapCenter Plug-in for IBM Db2

SnapCenter Software 6.0

NetApp
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SnapCenter Plug-in for IBM Db2

SnapCenter Plug-in for IBM Db2 overview

The SnapCenter Plug-in for IBM Db2 Database is a host-side component of the NetApp SnapCenter software that enables application-aware data protection management of IBM Db2 databases. The Plug-in for IBM Db2 Database automates the backup, restore, and cloning of IBM Db2 databases in your SnapCenter environment.

- SnapCenter 6.0 supports IBM Db2 10.5 and later.
- SnapCenter 6.0.1 supports IBM Db2 9.7.x and later. Also, beginning with SnapCenter 6.0.1, IBM Db2 on AIX is supported.

SnapCenter supports single instance and multi instance Db2 setups. You can use the Plug-in for IBM Db2 Database in both Linux and Windows environments. In Windows environments, Db2 will be supported as manual resource.



Db2 pureScale environment and Db2 multi node (DPF) systems are not supported.

When the Plug-in for IBM Db2 Database is installed, you can use SnapCenter with NetApp SnapMirror technology to create mirror copies of backup sets on another volume. You can also use the plug-in with NetApp SnapVault technology to perform disk-to-disk backup replication for standards compliance.

SnapCenter Plug-in for Db2 supports NFS and SAN on ONTAP and Azure NetApp File storage layouts.

VMDK or virtual storage layout is not supported.

What you can do using the SnapCenter Plug-in for IBM Db2

When you install the Plug-in for IBM Db2 Database in your environment, you can use SnapCenter to back up, restore, and clone IBM Db2 databases and their resources. You can also perform tasks supporting those operations.

- Add databases.
- Create backups.
- Restore from backups.
- Clone backups.
- Schedule backup operations.
- Monitor backup, restore, and clone operations.
- View reports for backup, restore, and clone operations.

SnapCenter Plug-in for IBM Db2 features

SnapCenter integrates with the plug-in application and with NetApp technologies on the storage system. To work with the Plug-in for IBM Db2 Database, you use the SnapCenter graphical user interface.

- **Unified graphical user interface**

The SnapCenter interface provides standardization and consistency across plug-ins and environments. The SnapCenter interface enables you to complete consistent backup, restore, and clone operations across plug-ins, use centralized reporting, use at-a-glance dashboard views, set up role-based access control (RBAC), and monitor jobs across all plug-ins.

- **Automated central administration**

You can schedule backup operations, configure policy-based backup retention, and perform restore operations. You can also proactively monitor your environment by configuring SnapCenter to send email alerts.

- **Nondisruptive NetApp snapshot copy technology**

SnapCenter uses NetApp snapshot technology with the Plug-in for IBM Db2 Database to back up resources.

Using the Plug-in for IBM Db2 also offers the following benefits:

- Support for backup, restore, and clone workflows
- RBAC-supported security and centralized role delegation

You can also set the credentials so that the authorized SnapCenter users have application-level permissions.

- Creation of space-efficient and point-in-time copies of resources for testing or data extraction by using NetApp FlexClone technology

A FlexClone license is required on the storage system where you want to create the clone.

- Support for the consistency group (CG) snapshot feature of ONTAP as part of creating backups.
- Capability to run multiple backups simultaneously across multiple resource hosts

In a single operation, snapshots are consolidated when resources in a single host share the same volume.

- Capability to create snapshots using external commands.
- Support for Linux LVM on XFS file system.

Storage types supported by SnapCenter Plug-in for IBM Db2

SnapCenter supports a wide range of storage types on both physical machines and virtual machines (VMs). You must verify the support for your storage type before installing SnapCenter Plug-in for IBM Db2.

Machine	Storage type
Physical server	<ul style="list-style-type: none">• FC-connected LUNs• iSCSI-connected LUNs• NFS-connected volumes

Machine	Storage type
VMware ESXi	<ul style="list-style-type: none"> RDM LUNs connected by an FC or iSCSI ESXi HBAs <p>Scanning of host bus adapters (HBAs) might take long time to complete because SnapCenter scans all the host bus adaptors present in the host.</p> <p>You can edit the LinuxConfig.pm file located at <code>/opt/NetApp/snapcenter/spl/plugins/scu/scucore/modules/SCU/Config</code> to set the value of the SCSI_HOSTS_OPTIMIZED_RESCAN parameter to 1 to rescan only those HBAs that are listed in HBA_DRIVER_NAMES.</p> <ul style="list-style-type: none"> iSCSI LUNs connected directly to the guest system by the iSCSI initiator VMDKs on NFS datastores VMDKs on VMFS created NFS volumes connected directly to the guest system vVol datastores on both NFS and SAN <p>vVol datastore can only be provisioned with ONTAP Tools for VMware vSphere.</p>

Minimum ONTAP privileges required for IBM Db2 plug-in

The minimum ONTAP privileges that are required vary according to the SnapCenter plug-ins you are using for data protection.

- All-access commands: Minimum privileges required for ONTAP 8.3.0 and later
 - event generate-autosupport-log
 - job history show
 - job stop
 - lun
 - lun create
 - lun create
 - lun create
 - lun delete
 - lun igrp add
 - lun igrp create
 - lun igrp delete
 - lun igrp rename

- lun igrup rename
- lun igrup show
- lun mapping add-reporting-nodes
- lun mapping create
- lun mapping delete
- lun mapping remove-reporting-nodes
- lun mapping show
- lun modify
- lun move-in-volume
- lun offline
- lun online
- lun persistent-reservation clear
- lun resize
- lun serial
- lun show
- snapmirror policy add-rule
- snapmirror policy modify-rule
- snapmirror policy remove-rule
- snapmirror policy show
- snapmirror restore
- snapmirror show
- snapmirror show-history
- snapmirror update
- snapmirror update-ls-set
- snapmirror list-destinations
- version
- volume clone create
- volume clone show
- volume clone split start
- volume clone split stop
- volume create
- volume destroy
- volume file clone create
- volume file show-disk-usage
- volume offline
- volume online
- volume modify

- volume qtree create
- volume qtree delete
- volume qtree modify
- volume qtree show
- volume restrict
- volume show
- volume snapshot create
- volume snapshot delete
- volume snapshot modify
- volume snapshot modify-snaplock-expiry-time
- volume snapshot rename
- volume snapshot restore
- volume snapshot restore-file
- volume snapshot show
- volume unmount
- vserver cifs
- vserver cifs share create
- vserver cifs share delete
- vserver cifs shadowcopy show
- vserver cifs share show
- vserver cifs show
- vserver export-policy
- vserver export-policy create
- vserver export-policy delete
- vserver export-policy rule create
- vserver export-policy rule show
- vserver export-policy show
- vserver iscsi
- vserver iscsi connection show
- vserver show

- Read-only commands: Minimum privileges required for ONTAP 8.3.0 and later
 - network interface
 - network interface show
 - vserver

Prepare storage systems for SnapMirror and SnapVault replication for IBM Db2

You can use a SnapCenter plug-in with ONTAP SnapMirror technology to create mirror copies of backup sets on another volume, and with ONTAP SnapVault technology to perform disk-to-disk backup replication for standards compliance and other governance-related purposes. Before you perform these tasks, you must configure a data-protection relationship between the source and destination volumes and initialize the relationship.

SnapCenter performs the updates to SnapMirror and SnapVault after it completes the Snapshot operation. SnapMirror and SnapVault updates are performed as part of the SnapCenter job; do not create a separate ONTAP schedule.



If you are coming to SnapCenter from a NetApp SnapManager product and are satisfied with the data protection relationships you have configured, you can skip this section.

A data protection relationship replicates data on primary storage (the source volume) to secondary storage (the destination volume). When you initialize the relationship, ONTAP transfers the data blocks referenced on the source volume to the destination volume.



SnapCenter does not support cascade relationships between SnapMirror and SnapVault volumes (**Primary > Mirror > Vault**). You should use fanout relationships.

SnapCenter supports the management of version-flexible SnapMirror relationships. For details about version-flexible SnapMirror relationships and how to set them up, see the [ONTAP documentation](#).

Backup strategy for IBM Db2

Define a backup strategy for IBM Db2

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 use NetApp SnapMirror technology for replication or NetApp SnapVault technology for long-term retention.
6. Determine the retention period for the snapshots on the source storage system and the SnapMirror destination.
7. 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 IBM Db2 databases and instances on the Linux host that are managed by SnapCenter. After installing the SnapCenter Plug-in for IBM Db2 plug-in, the IBM Db2 databases from all the instances on that Linux host are automatically discovered and displayed in the Resources page.

Type of backups supported

Backup type specifies the type of backup that you want to create. SnapCenter supports snapshot copy-based backup type for IBM Db2 databases.

Snapshot copy based backup

Snapshot copy-based backups leverage NetApp snapshot technology to create online, read-only copies of the volumes on which the IBM Db2 databases reside.

How SnapCenter Plug-in for IBM Db2 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 data backups

SnapCenter manages the housekeeping of data backups on the storage system and file system levels.

The snapshots on the primary or secondary storage and their corresponding entries in the IBM Db2 catalog are deleted based on the retention settings.

Considerations for determining backup schedules for IBM Db2

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 IBM Db2

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 IBM Db2 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.

Restore and recovery strategy for IBM Db2

Define a restore and recovery strategy for IBM Db2 resources

You must define a strategy before you restore and recover your database so that you can perform restore and recovery operations successfully.



Only manual recovery of database is supported.

Steps

1. Determine the restore strategies supported for manually added IBM Db2 resources
2. Determine the restore strategies supported for auto discovered IBM Db2 databases

Types of restore strategies supported for manually added IBM Db2 resources

You must define a strategy before you can successfully perform restore operations using SnapCenter. There are two types of restore strategies for manually added IBM Db2 resources.



You cannot recover manually added IBM Db2 resources.

Complete resource restore

- Restores all volumes, qtrees, and LUNs of a resource



If the resource contains volumes or qtrees, the snapshots taken after the snapshot selected for restore on such volumes or qtrees are deleted and cannot be recovered. Also, if any other resource is hosted on the same volumes or qtrees, then that resource is also deleted.

Type of restore strategy supported for automatically discovered IBM Db2

You must define a strategy before you can successfully perform restore operations using SnapCenter.

Complete resource restore is the restore strategy supported for automatically discovered IBM Db2 databases. This restores all the volumes, qtrees, and LUNs of a resource.

Types of restore operations for auto discovered IBM Db2

SnapCenter Plug-in for IBM Db2 supports Single File SnapRestore, and connect-and-copy restore types for automatically discovered IBM Db2 databases.

Single File SnapRestore is performed in NFS environments for the following scenarios:

- If only the **Complete Resource** option is selected
- When the backup selected is from a SnapMirror or SnapVault secondary location, and the **Complete Resource** option is selected

Single File SnapRestore is performed in SAN environments for the following scenarios:

- If only the **Complete Resource** option is selected
- When the backup is selected from a SnapMirror or SnapVault secondary location, and the **Complete Resource** option is selected

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