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About role-based access control

SnapManager for SAP

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About role-based access control

Role-based access control (RBAC) lets you control who has access to SnapManager operations. RBAC allows administrators to manage groups of users by defining roles and assigning users to those roles. You might want to use SnapManager RBAC in environments where RBAC is already in place.

RBAC includes the following components:

- Resources: Volumes and LUNs that hold the datafiles that make up your database.
- Capabilities: Types of operations that can be performed on a resource.
- · Users: People to whom you grant capabilities.
- Roles: A set of resources and capabilities allowed on resources. You assign a specific role to a user who should perform those capabilities.

You enable RBAC in SnapDrive. You can then configure specific capabilities per role in the Operations Manager Web graphical user interface or command-line interface. RBAC checks occur in the DataFabric Manager server.

The following table lists some roles and their typical tasks, as set in Operations Manager.

Role	Typical tasks
SAP basis administrator	 Creating, maintaining, and monitoring an Oracle database that resides on a host Scheduling and creating database backups
	Ensuring that backups are valid and can be restored
	Cloning databases
Server administrator	Setting up storage systems and aggregates
	Monitoring volumes for free space
	Provisioning storage on requests from users
	Configuring and monitoring disaster recovery mirroring
Storage architect	Making architectural decisions on storage
	Planning storage capacity growth
	Planning disaster recovery strategies
	Delegating capabilities to members of the team

If RBAC is in use (meaning that Operations Manager is installed and RBAC is enabled in SnapDrive), the storage administrator needs to assign RBAC permissions on all of the volumes and storage systems for the database files.

Enable role-based access control

SnapManager role-based access control (RBAC) is enabled using SnapDrive. Upon installation of SnapDrive, RBAC is disabled by default. After you enable RBAC in SnapDrive, SnapManager then performs operations with RBAC enabled.

About this task

The snapdrive.config file in SnapDrive sets many options, one of which enables RBAC.

The SnapDrive documentation contains details about SnapDrive.

Steps

- 1. Open the snapdrive.conf file in an editor.
- 2. Enable RBAC by changing the value of the rbac-method parameter from native to dfm.

The default value for this parameter is **native**, which disables RBAC.

Documentation on the NetApp Support Site

Set role-based access control capabilities and roles

After you enable role-based access control (RBAC) for SnapManager using SnapDrive, you can add RBAC capabilities and users to roles to perform SnapManager operations.

What you'll need

You must create a group in the Data Fabric Manager server and add the group to both primary and secondary storage systems. Run the following commands:

- dfm group create smsap grp
- dfm group add smsap grpprimary_storage_system
- dfm group add smsap grpsecondary_storage_system

About this task

You can use either the Operations Manager web interface or the Data Fabric Manager server command-line interface (CLI) to modify RBAC capabilities and roles.

The table lists the RBAC capabilities required to perform SnapManager operations:

SnapManager operations	RBAC capabilities required when data protection is not enabled	RBAC capabilities required when data protection is enabled
Profile create or profile update	SD.Storage.Read (smsap_grp)	SD.Storage.Read (SMSAP _profile dataset)

SnapManager operations	RBAC capabilities required when data protection is not enabled	RBAC capabilities required when data protection is enabled
Profile protection	DFM.Database.Write (smsap_grp)	None
	SD.Storage.Read (smsap_grp)	
	SD.Config.Read (smsap_grp)	
	SD.Config.Write (smsap_grp)	
	SD.Config.Delete (smsap_grp)	
	GlobalDataProtection	
Backup create	SD.Storage.Read (smsap_grp)	SD.Storage.Read (SMSAP _profile dataset)
	SD.Snapshot.Write (smsap_grp)	SD.Snapshot.Write (SMSAP _profile dataset)
	SD.Snapshot.Read (smsap_grp)	SD.Snapshot.Read (SMSAP _profile dataset)
	SD.Snapshot.Delete (smsap_grp)	SD.Snapshot.Delete (SMSAP _profile dataset)
Backup create (with DBverify)	SD.Storage.Read (smsap_grp)	SD.Storage.Read (SMSAP _profile dataset)
(With DDVCIIIy)	SD.Snapshot.Write (smsap_grp)	SD.Snapshot.Write (SMSAP _profile dataset)
	SD.Snapshot.Read (smsap_grp)	SD.Snapshot.Read (SMSAP _profile dataset)
	SD.Snapshot.Delete (smsap_grp)	SD.Snapshot.Delete (SMSAP _profile dataset)
	SD.SnapShot.Clone (smsap_grp)	SD.SnapShot.Clone (SMSAP _profile dataset)
Backup create (with RMAN)	SD.Storage.Read (smsap_grp)	SD.Storage.Read (SMSAP _profile dataset)
(WILLI KIMAN)	SD.Snapshot.Write (smsap_grp)	SD.Snapshot.Write (SMSAP _profile dataset)
	SD.Snapshot.Read (smsap_grp)	SD.Snapshot.Read (SMSAP _profile dataset)
	SD.Snapshot.Delete (smsap_grp)	SD.Snapshot.Delete (SMSAP _profile dataset)
	SD.SnapShot.Clone (smsap_grp)	SD.SnapShot.Clone (SMSAP _profile dataset)

SnapManager operations	RBAC capabilities required when data protection is not enabled	RBAC capabilities required when data protection is enabled	
Backup restore	SD.Storage.Read (smsap_grp)	SD.Storage.Read (SMSAP _profile dataset)	
	SD.Snapshot.Write (smsap_grp)	SD.Snapshot.Write (SMSAP _profile dataset)	
	SD.Snapshot.Read (smsap_grp)	SD.Snapshot.Read (SMSAP _profile dataset)	
	SD.Snapshot.Delete (smsap_grp)	SD.Snapshot.Delete (SMSAP _profile dataset)	
	SD.SnapShot.Clone (smsap_grp)	SD.SnapShot.Clone (SMSAP _profile dataset)	
	SD.Snapshot.Restore (smsap_grp)	SD.Snapshot.Restore (SMSAP _profile dataset)	
Backup delete	SD.Snapshot.Delete (smsap_grp)	SD.Snapshot.Delete (SMSAP _profile dataset)	
Backup verify	SD.Storage.Read (smsap_grp)	SD.Storage.Read (SMSAP _profile dataset)	
	SD.Snapshot.Read (smsap_grp)	SD.Snapshot.Read (SMSAP _profile dataset)	
	SD.Snapshot.Clone (smsap_grp))	SD.Snapshot.Clone (SMSAP _profile dataset)	
Backup mount	SD.Storage.Read (smsap_grp)	SD.Storage.Read (SMSAP _profile dataset)	
	SD.Snapshot.Read (smsap_grp)	SD.Snapshot.Read (SMSAP _profile dataset)	
	SD.Snapshot.Clone (smsap_grp)	SD.Snapshot.Clone (SMSAP _profile dataset)	
Backup unmount	SD.Snapshot.Clone (smsap_grp)	SD.Snapshot.Clone (SMSAP _profile dataset)	
Clone create	SD.Storage.Read (smsap_grp)	SD.Storage.Read (SMSAP _profile dataset)	
	SD.Snapshot.Read (smsap_grp)	SD.Snapshot.Read (SMSAP _profile dataset)	
	SD.SnapShot.Clone (smsap_grp)	SD.SnapShot.Clone (SMSAP _profile dataset)	
Clone delete	SD.Snapshot.Clone (smsap_grp)	SD.Snapshot.Clone (SMSAP _profile dataset)	
Clone split	SD.Storage.Read (smsap_grp)	SD.Storage.Read (SMSAP _profile dataset)	
	SD.Snapshot.Read (smsap_grp)	SD.Snapshot.Read (SMSAP _profile dataset)	
	SD.SnapShot.Clone (smsap_grp)	SD.SnapShot.Clone (SMSAP _profile dataset)	
	SD.Snapshot.Delete (smsap_grp)	SD.Snapshot.Delete (SMSAP _profile dataset)	
	SD.Storage.Write (smsap_grp)	SD.Storage.Write (SMSAP _profile dataset)	

For details about defining RBAC capabilities, see the *OnCommand Unified Manager Operations Manager Administration Guide*.

Steps

- 1. Access the Operations Manager console.
- 2. From the Setup menu, select Roles.
- 3. Select an existing role or create a new one.
- 4. To assign operations to your database storage resources, click **Add capabilities**.
- 5. On the Edit Role Settings page, to save your changes to the role, click **Update**.

Related information

OnCommand Unified Manager Operations Manager Administration Guide

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