

EMC[®] Storage Monitoring and Reporting

Version 4.1

Upgrading to ViPR SRM

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CHAPTER 1

Upgrading the System

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Overview

When you upgrade Storage Monitoring and Reporting to ViPR SRM, the upgrade process removes the frontend modules of the Storage Monitoring and Reporting instance and reuses the backend and collector in the ViPR SRM instance.

Pre-requisites:

- Storage Monitoring and Reporting and ViPR SRM must be the same release version.
- APG Services on both ViPR SRM and Storage Monitoring and Reporting must be running.
- For Storage Monitoring and Reporting for Unity, the same version of the SolutionPack for EMC Unity/VNX/VNXe must be installed in ViPR SRM. Refer to the *ViPR SRM SolutionPack Installation Guide*.
- For Storage Monitoring and Reporting for VPLEX, the same version of the SolutionPack for EMC VPLEX must be installed in ViPR SRM. Refer to the *ViPR SRM SolutionPack Installation Guide*.
- There should not be any system related health alerts in the EMC M&R Health reports in ViPR SRM or Storage Monitoring and Reporting

Required credentials

Gather the necessary credentials.

- Administrator credentials for Storage Monitoring and Reporting.
- Web Service Gateway credentials for ViPR SRM.

Verifying and documenting the current status of the environment

Verify and document the current status of the environment before starting the upgrade process. This will help you evaluate the success of the upgrade.

Before you begin

Refer to chapter 4 of the *ViPR SRM Administrator's Guide* for details about verifying the health of your system.

Refer to the *ViPR SRM Performance and Scalability Guidelines* for details about determining configuration size.

Note

If you install ViPR SRM in a different location than Storage Monitoring and Reporting, your deployment must still meet the network latency limits described in the guidelines.

Procedure

1. Look for blank reports and graphs. Determine if there are any blank reports caused by collection errors. Resolve any issues or document them for later follow up.
2. Look for broken links and resolve any issues or document them for later follow up.

3. Validate that topology is working. Resolve any issues.

After you finish

Engage EMC Support to resolve any observed issues prior to proceeding with the upgrade.

Backing up the environment

Ensure the proper backup of all of the servers in your environment. This includes all of the frontend, backend, and collector hosts.

Before starting the upgrade, use Discovery Center to export all of your SolutionPack devices.

If it is allowed in your environment, perform a complete shutdown of ViPR SRM and Storage Monitoring and Reporting and take an offline VMware snapshot of each VM before starting the upgrade. These snapshots will allow you to quickly recover if you encounter any problems during the upgrade. After the upgrade is complete without any errors, you can delete these snapshots.

If a VMware snapshot of each VM is not allowed, you should completely power cycle the vApps and/or VMs before starting the upgrade.

Note

Notify all users not to log in during the upgrade.

Refer to the following guides for details about your backup system:

- *EMC ViPR SRM: Backing Up with VMware vSphere Data Protection Advanced 5.8*
- *EMC ViPR SRM: vApp Backup and Restore Using EMC NetWorker*
- *EMC ViPR SRM: Backing up with EMC Avamar 7.1*
- *EMC ViPR SRM: vApp Backup and Restore Using IBM Tivoli Storage Manager*
- *EMC ViPR SRM: vApp Backup and Restore Using Symantec NetBackup*
- *EMC ViPR SRM: vApp Backup and Restore using Commvault Simpana Virtual Server Protection*

These guides are available from the [ViPR SRM Product Documentation Index](#).

Upgrading to ViPR SRM

Procedure

1. On the Storage Monitoring and Reporting instance, enter the following URL:
`http://<Frontend-hostname>:58080/upgrade`
2. In the **Authentication** section, enter the Storage Monitoring and Reporting username and password. The default username is `admin`, and the default password is `changeme`.
3. In the **Hostname** field of the **SRM installation** section, enter the FQDN of the ViPR SRM frontend server.
4. Enter the ViPR SRM username and password. The default username is `admin`, and the default password is `changeme`.
5. Click **Connect**.

The system validates the installation.

6. Click **Next**.
 7. Click **Complete Installation**.
-

Note

You can safely ignore any messages about "Moving alerting contexts."

8. Close the Upgrader window.
9. Log in to ViPR SRM at `http://<Frontend-hostname>:58080/APG`.

CHAPTER 2

Post-Upgrade Tasks

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Validating the environment

After upgrading your system, verify the operational status.

Note

After upgrading to ViPR SRM, do not install new SolutionPacks on the Storage Monitoring and Reporting host.

Note

You can discover new devices on the Storage Monitoring and Reporting host. For example, if you upgraded from Storage Monitoring and Reporting for VPLEX, you can discover additional VPLEX arrays. However, before you add the new devices, ensure that they will not cause the system to exceed the collector limits described in the Storage Monitoring and Reporting performance and scalability guidelines.

Procedure

1. Verify that the upgraded Storage Monitoring and Reporting host is listed under **Centralized Management > Physical Overview** as a new node.
2. Verify that all services have started on the upgraded Storage Monitoring and Reporting host:
 - a. In **Centralized Management > Physical Overview**, click the host name.
 - b. Verify that the status for each service is Started.
 - c. If a service did not start automatically, click the name of the service, and then click **Start**.
3. Navigate to **Discovery Center > Devices Management** and verify that the devices that existed in Storage Monitoring and Reporting before the upgrade are listed in ViPR SRM.
4. Look for blank reports and graphs.
Determine whether blank reports are caused by collection errors. Resolve issues or document them for later follow up.
5. Verify that all tasks are completing successfully (with the possible exception of automatic updates and ESRS).
6. Validate that topology is working. Resolve any issues.
7. Verify or edit polling periods.

Limitations and known issues

Storage Monitoring and Reporting for VPLEX

- Alerts that were generated before the upgrade are removed from the UI. Ensure that required alerts are re-enabled after the upgrade. The re-enabled alerts will be visible after the completion of a polling cycle.
- If non-default threshold values were set in Storage Monitoring and Reporting, you must set them appropriately again.

- After the upgrade, some alerts have duplicate definitions that are disabled by default. After you re-enable alerts, ensure that the duplicates are still disabled, or the system will generate duplicate events, emails, and traps.

Storage Monitoring and Reporting for Unity

- All alerts that were triggered before the upgrade are dropped from the database and UI.
- All of the alert definitions from the Storage Monitoring and Reporting instance are disabled automatically. However, all of the alerts definitions on the ViPR SRM instance are left enabled by default.
- New alerts will be triggered in subsequent polling cycles based on the threshold values set in the alerts definitions of the ViPR SRM instance. If non-default threshold values were set in Storage Monitoring and Reporting, you must set them appropriately again.

