



Integrate

Data Center Automation Premium 2017.05

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Integrate

DCA requires additional components to perform analytics, reporting, and provisioning functions. Refer to [Prerequisites](#) for information about the installation and configuration of the components listed here.

The following table provides information about the components that must be integrated with DCA.

Component	Version	Integration concepts
HPE Server Automation (SA)	10.50 10.51 10.60	Integration with SA enables you to use DCA to provision operating systems and databases on target hosts. <div style="border: 1px solid #f0e68c; padding: 10px; margin: 10px 0;"> The ad hoc compliance scan and remediation job on the resources discovered through SA 10.50 will work only if the ROLLUP_10.50.002_71107 is applied to the SA 10.50.</div>
HPE Operations Bridge Reporter (OBR)	10.x	Integration with OBR enables you to generate reports for all the compliance scan and remediation jobs. This can help you understand the compliance status, compliance summary, SLO conformance details for policies, benchmarks, and resources.
HPE Cloud Optimizer (CO)	3.01	Integration with Cloud Optimizer helps you monitor and analyze the available computing resource in the monitored environment.

Integrate with Server Automation

Integrate DCA with Server Automation (SA) to provision and ensure compliance of SA managed servers.

 The ad hoc compliance scan and remediation job on the resources discovered through SA 10.50 will work only if the ROLLUP_10.50.002_71107 is applied to the SA 10.50. See https://patch-central.corp.hpecorp.net/crypt-web/protected/viewContent.do?patchId=ROLLUP_10.50.002_71107 for more information on the ROLLUP_10.50.002_71107.

Provisioning

SA enables DCA to provision operating systems and databases on target hosts. Target servers are discovered in DCA using SA. Target servers may be unprovisioned or provisioned with an OS. Deployment can be implemented on both servers depending on the resource type listed in the template that is applied. While deploying a template on the target server, the Build Plan ID must be retrieved from the SA user interface and populated in the deployment parameters dialog, along with the credentials that are created at the start of deployment. At the end of deployment, the credential will be associated with the target server.

Compliance

DCA can scan and remediate any resources imported from SA. Once you establish the connection to the SA Core, DCA can access all the available SA target servers. This means that you do not need to list the credentials of each target server in the DCA Credential Manager.

Access permissions

1. Check that the SA user has all required SA permissions. For example, permissions to import resources and install software.
2. Check that the SA user has Read and Write permissions to the **/Home/user** folder.
3. [Configure SA](#) so that DCA can use the resources available on your SA Core.

Related topics

[Install and configure prerequisite components](#)

Integrate with OBR

The integration Operations Bridge Reporter (OBR) with enables you to view compliance reports to measure SLOs, view compliance status of policies, benchmarks, and resources. The OBR-DCA reports are web intelligence documents. The Web Intelligence (WebI) Report Server in SAP Business Objects is responsible for generating the reports in DCA.

Before you integrate DCA with OBR, ensure that you have installed OBR and imported the OBR-DCA Suite Content Pack as part of the [Install and configure prerequisite components](#) tasks. You must also install the following components from the OBR installer at <ftp://iwfastr0001.ind.hp.com/pub/ec/OBR.10.10/10.10/10.10.000/10.10.000/PARTS/>.

Component	Version
OBR server (Web application for the reporting platform)	10.x
SAP BusinessObjects (Enterprise reporting and dashboard platform used to perform data analysis)	4.1 SP 8
Vertica database (Database that hosts the reports data warehouse and provides analytic functions)	7.2.3

Note

If you want to use the reporting capabilities of Server Automation (SA), you must install SA and OBR. Refer to the *HPE SA-OBR Configuration Guide* for detailed information.

Configure OBR

After you have installed the components, you must configure the Operations Bridge Reporter (OBR) server to enable DCA reporting.

The data source page in OBR enables you to manage the integration of data into the data warehouse through the activation of data sources. The available data source content packs are registered in the installation process and can then be activated in the **Data Source Configuration** section on the OBR console.

To configure the data source for DCA Suite reporting:

1. [Configure the initial data collection timeline.](#)
2. [Configure the data source for DCA reporting in OBR.](#)

Configure the initial data collection timeline

The initial data timeline sets the time period for data to be collected and presented in the reports.

1. SSH to the OBR server.
2. Stop the collection service by running the following command:
`/etc/init.d/HPE_PMDB_Platform_Collection stop`
3. In the `/opt/HP/BSM/PMDB/data/config.prp` file, edit the following parameters and set it to the following values:

```
dbcollector.initHistory=360
```

```
dbcollector.maxHistory=360
```

By default, the value of these parameters is 360 hours (15 days). This means that initial data collection happens for the last 15 days. However, it is recommended that data be collected from day 1. Hence, enter the value for the number of days (in hours) from which the data collection must begin (based on the time from when the data is available in the source database). For example, if you want data to be collected for the last 6 months (180 days), then set the parameters to 4320 (180 days * 24 hours).

Configure the data source for DCA reporting in OBR

You must configure the following three different data sources to collect data from different databases:

1. [Collect data from the DCA core database](#)
2. [Collect data from the DCA compliance database](#)
3. [Collect data from the DCA model repository \(uCMDB\)](#)

Note

The procedure to collect data from the DCA core database and the DCA compliance database is the same. For the DCA core database, in the URL field, move DCA_Core to the right box and for the DCA compliance database, move DCA_Compliance_Domain to the right box.

Collect data from the DCA core and compliance databases

1. Log in to the OBR Administration Console: **https://<obr-core-ip>:21412/BSMRApp**
2. Select **Data Source Configuration > Generic Database**.
3. Click **Create New**.

In the **Connection Parameters** area, enter the required values as follows to create the DCA data source.

Field	Description
Host name	Based on the Domains: <ul style="list-style-type: none"> • For DCA_Compliance_Domain, IP address of the DCA PostgreSQL database • For DCA_CORE, FQDN of the DCA PostgreSQL database
Port	Port number on which the DCA PostgreSQL database is listening. The default value is 33532.
Time zone	Select the required time zone for which you want the data to be populated.
Database type	Select POSTGRESQL .
Domains	Move DCA_Compliance_Domain and DCA_CORE to the right box. Note: The Domains field is displayed only if you select POSTGRESQL .
URL	jdbc:<database type>://<server>:<port>/<sid> where <server> is the host name of the DCA PostgreSQL database When you move DCA_Compliance_Domain to the right box, enter jdbc:postgresql://<server>/itoc in the URL field. When you move DCA_Core to the right box, enter jdbc:postgresql://<server>/dca_db in the URL field.

User name	User name of the DCA PostgreSQL database that you enter when installing DCA. The default user name is itocadmin .
Password	Password of the DCA PostgreSQL database that you enter when installing DCA.
Collection station	Used for a collector installed on a remote system. Select remote .

The data source configuration page is displayed as follows:

The screenshot shows a dialog box titled "Connection Parameters" with the following fields and options:

- Host name: 15.114.161.147
- Port: 33532
- Time zone: (GMT-12:00) International Date Line West
- Database type: POSTGRESQL
- Domains: Two panes, "DCA_Compliance_Domain" and "DCA_CORE", with navigation buttons between them.
- URL: jdbc:postgresql://15.114.161.147:33532/dca_db
- User name: dcaAdmin
- Password: Masked with dots
- Collection station: local

Buttons for "OK" and "Cancel" are at the bottom.

4. Click **OK**.
5. Click **Save**. The **Saved successfully** message is displayed.

The data is collected, processed, and loaded into the Vertica database. To view the data collection status and statistics, see the \$PMDB_HOME/log/dbcollector.log file where \$PMDB_HOME is the location where OBR is installed.

Collect data from the DCA model repository (uCMDB)

Data collected from uCMDB displays not just the IDs of deployments and resources but also the names, you must also configure the data source in the Topology Source area of the OBR Administration Console.

1. Log in to the OBR Administration Console: **https://<obr-core-ip>:21412/BSMRApp**
2. Select **Data Source Configuration > Topology Source**.

- Click **Create New**. The Connection Parameters dialog is displayed.

- Enter the required values as follows:

Field	Description
Host name	IP address or FQDN of the DCA server.
Port	Port number on which the DCA server is listening. The default value is 33071.
User name	User name of the DCA administrator. The default user name is admin .
Password	Password of the DCA administrator.
Collection station	Used for a collector installed on a remote system. Select remote .

- Click **OK**.
- Click **Save**. The **Saved successfully** message is displayed.

Where to go from here

[Reports](#)

Related topics

[Install and configure prerequisite components](#)

[Reports](#)

[Reports universe](#)

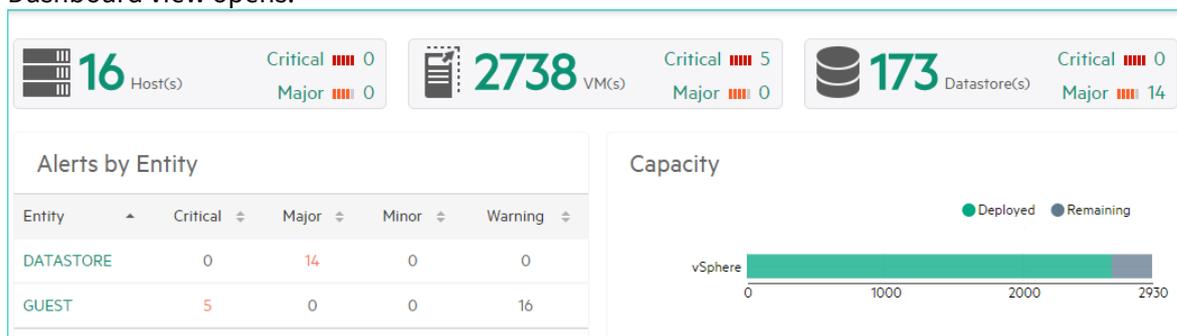
Integrate with Cloud Optimizer

Cloud Optimizer is a web-based analysis and visualization tool that analyzes performance trends of elements in virtualization environments, provides an overview of the environment, and presents the analyzed data--near-real-time and historical--in an interactive dashboard. It helps DCA monitor and analyze the available computing resource in the monitored environment. Integration of DCA with CO is established at the time of the DCA installation. Refer to [Install DCA](#) for detailed information.

Use Cloud Optimizer

You can take advantage of Cloud Optimizer's advanced analytics capability to perform proactive monitoring of compute resources in your data center. After successfully installing and configuring DCA, you can log on to the Cloud Optimizer by following these steps:

1. Launch the following URL in a browser:
http://<CO_Host>:<CO_Port>/PV
In this instance, <CO_Host> is the FQDN of the system where you installed Cloud Optimizer; <CO_Port> is the port that is configured with Cloud Optimizer.
2. Log on to the Cloud Optimizer console with configured access credentials. By default, the Dashboard view opens.



You can use the Dashboard view to perform advanced analysis like measuring the capacity of virtual compute resources, viewing the condition of existing data stores, and health of virtualization hosts.

Note

Integration with Cloud Optimizer enables you to power off a virtual machine resource by clicking **Actions > Power Off** on a resource details page. The **Power Off** button appears only if the resource is a virtual machine and if it is available in Cloud Optimizer database.

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