Data Center Automation Suite

Software Version: 2016.10

User Guide

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Introduction

HPE Data Center Automation (DCA) Suite 2016.10 is a complete and heterogeneous IT operations solution running in an appliance, allowing you to standardize, consolidate, and automate IT operations in your hybrid data center by providing a single solution for Provisioning, Security Patch Management, Audit and Compliance, Software Management, as well as automating daily tasks using standard operating procedures (SOP).

DCA supports servers running on:

- Windows, Linux, and Solaris platforms

- Both HPE and non-HPE physical hardware

- Virtualized platforms or in the cloud

Therefore, DCA Suite provides significant improvements in day to day IT operations.

DCA offerings

For DCA offerings, the **Show More Details** button (ON | OFF) is switched to **ON** by default when viewing any offering. This button allows for more detail on selecting offerings, and should be in the **ON** position for best results.

# Server Automation (SA) Agent installation

> **Note:** DCA supports installing the SA agent one server at a time.

This service offering installs the management agent on a target server to be discovered and managed by Server Automation for application provisioning and ongoing lifecycle management.

Subscribe to the Install Server Automation (SA) Agent offering

1. Log onto the Operations Portal at **https://<ipaddress>:8079**

2. Click **All Services**.

3. Select the **Install Server Automation (SA) Agent** offering.

4. Create a Server IP or hostname.

5. Enter the administrator username for the user with Admin rights on the server.

6. Enter the administrator password.

7. Select the Server OS family for the server from the list of options.

8. Select one of the facilities listed, where the server is hosted.
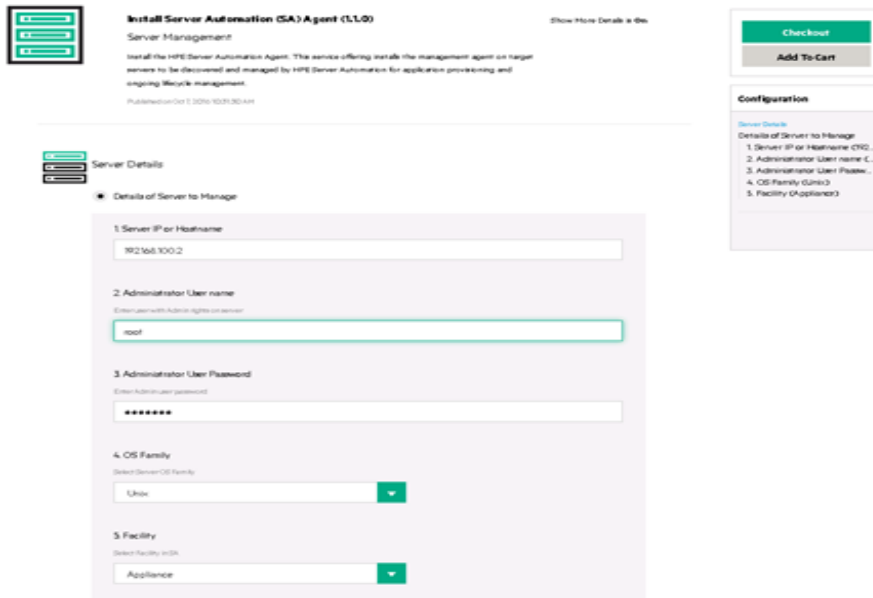
9. Perform a checkout operation. Include the Subscription Name and Service Description, Subscribing Period (the time period your subscription will operate). Optionally, you can attach documents to the service that are relevant to the user subscribing to the service.

10. Select **Submit Request** to subscribe to the service.

Manage servers

Manage the entire server lifecycle. This service offering allows you to deploy and remediate pre-defined software policies and applications, scripts and patch policies to individual servers.

To subscribe to the offering:

1. Log onto the Operations Portal at `https://<DCA_hostname or ipaddress>:8079`

2. Click **All Services**.

3. Select the **Manage Servers** offering.

4. Select the server name from the available list of all managed servers in SA.

5. The **Install Software Package** list displays all the available packages for the selected server. One or more packages can be selected at a time. To skip installing packages, select **--NONE--**.

6. You can apply additional software and patch policies to the selected server. As before, one or more policies can be selected at the same time. To skip applying software and patch policies, select **--NONE--** .
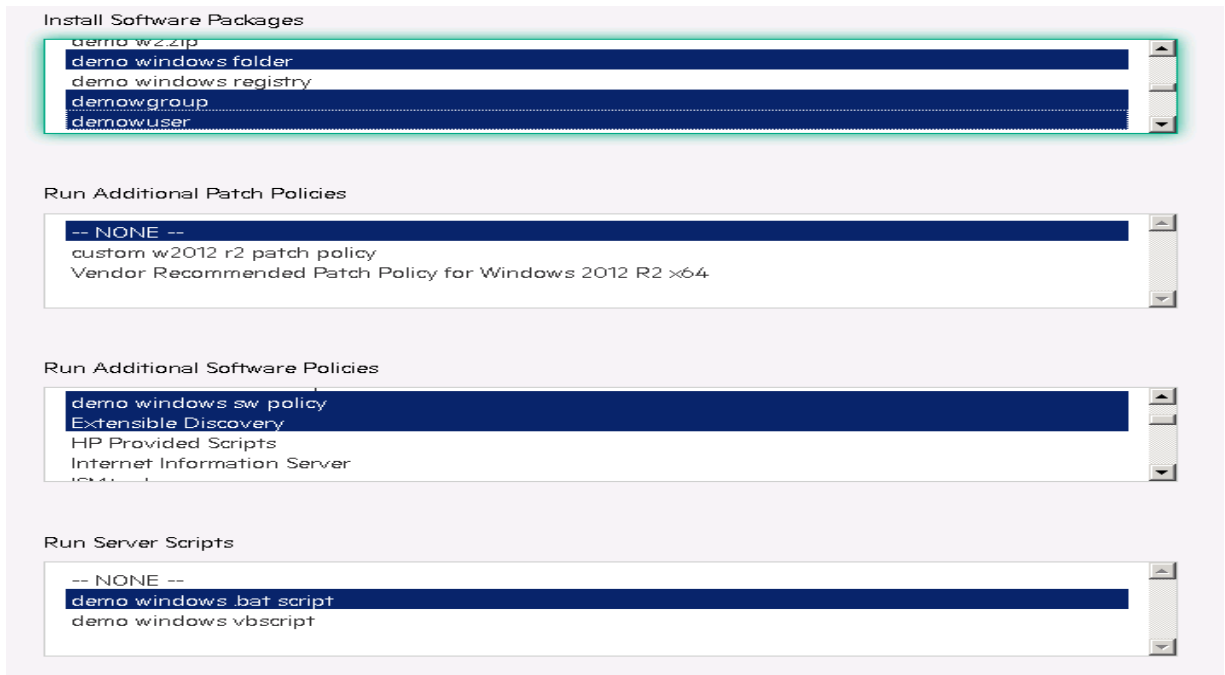
> **Note:** Ubuntu patch policies can be found in the **Run Additional Software Policies** list.

7. To run a server script on the selected server, select it from the **Run Server Scripts** list that shows the applicable scripts present in SA. To skip running scripts, select **--NONE--**.

   > **Note:** While running PowerShell scripts, or if a software package or policy contains a PowerShell script, permission must be granted on the managed server by running the following command in the PowerShell command prompt: set-executionpolicy unrestricted.

8. Additional options to send email notifications and attach a ticket ID to track a job in SA are also available for the subscriber. These options are not mandatory, and can be used only when necessary.

9. Optionally, attach the managed server to a business service or policy defined in ITOC.

10. Perform a checkout operation and submit after reviewing all the subscription details.

11. When the subscription becomes active, click on the subscription to view details.

Attach a managed server to ITOC

The **Manage Server** offering also allows you to attach a managed server to business services and policies defined in ITOC.

> **Note:** This feature is only available in the Premium edition.

1. Click **Business Services and Compliance Policies**.

2. Select the required business service. Either you can select an existing business service or you can create a new one. If you choose to create a new one, type a name in the **New Business Service Name** field, otherwise select the required business service from the list of options.

3. Select the required policies. These are attached to the business service provided above through a Statement of Applicability (SOA). If an existing business service is provided in the previous step, the selected policies will be merged with the policies already attached to the existing business service.

4. Select the maintenance windows. A maintenance window defines a period of time when ITOC may perform operations on the servers for the selected business service.

Provision servers

This offering allows you to provision the Operating System (OS) for the physical/virtual VMware or non-VMware virtual servers on your network.

To subscribe to the offering:

1. Log onto the Operations Portal at `https://<DCA_hostname or ipaddress>:8079`

2. Click **All Services**.

3. Select the **Provision Servers** offering. Choose whether to provision a new physical server or a new virtual server.

Provision Servers (1.2.0)

Accessory

Show More Details is **On**

OS Provisioning for physical or virtual servers. This service design provisions operating system baselines onto a bare metal physical server or multiple virtual servers, allowing you to select from pre-defined options.

Published on Oct. 7, 2016 10:49:15 AM

Checkout

Add To Cart

Configuration

Server Information
Provision a network booted Serv...
1. Select Unprovisioned Server ...
2. Select OS Build Plan (CentO...
Server Attributes
IT Operations Compliance (Optional)
Email Notifications and Ticket ID (Optional)

Server Information

○ Provision a network booted Server

Provision a network booted Physical/Virtual Server (Non-VMware)

1. Select Unprovisioned Server

dhcp-164-116.copper.qa.opsware.com-VMware-VMware ▼

2. Select OS Build Plan

CentOS 7 X86_64 Install ▼

3. Host Name Prefix

Hostname Prefix can be up to 9 characters (no special characters or blank spaces)

Server Attributes

☐ Attach Server to a Customer

☑ Attach Server to a Device Group

Device Group

demo DG ▼

Checkout

Add To Cart

Configuration

Server Information
Provision a network booted S...
1. Select Unprovisioned Ser...
2. Select OS Build Plan (Ge...
Server Attributes
Attach Server to a Device G...
Device Group (demo DG)
IT Operations Compliance (Optional)
Email Notifications and Ticket ID (Optional)

IT Operations Compliance (Optional)

HP IT Operations Compliance (ITOC) allows IT Operations users to track business service compliance against corporate and regulatory policies, making their environment compliant and therefore secure.

☐ Attach Policies

☐ Attach Business Services

Email Notifications and Ticket ID (Optional)

Options to get email notifications about the job and attach a Ticket ID to the job.

☐ Send Email Notifications about the Job

The email ID will be notified about the job status.

☐ Attach Ticket ID

This Ticket ID will be attached to the job.

4. Complete the details and click **Checkout**.

5. Verify the details and edit options.

6. Click **Submit Request**.

7. Open the **Subscriptions** tab to monitor the status of your subscription.
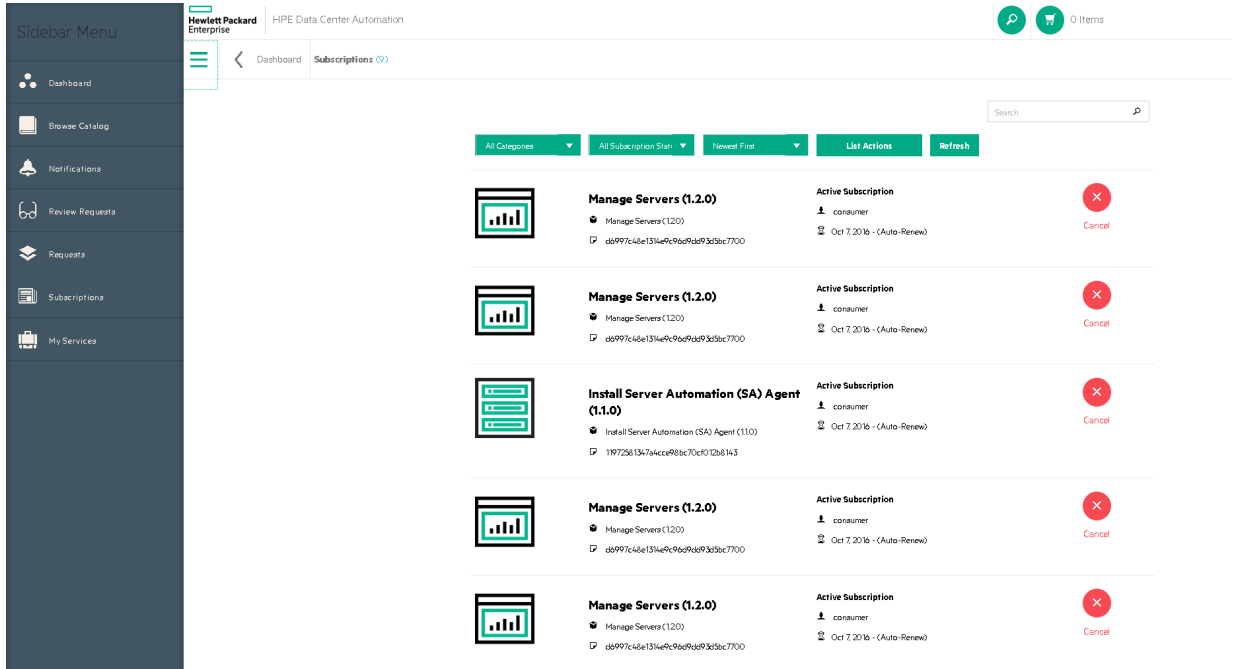
Provision a new network-booted server

1. Click **Provision Servers** and select the **Options** tab.

2. On the **Server Information** page, click **Provision a network booted server**.

3. Select the **Unprovisioned Server** from the list of available servers.

4. Select the **OS Build Plan**.

5. Create a name for the server in the **Host Name Prefix** field.

Provision a new virtual server (VMware)

1. At the bottom of the **Server Information** page, click **New Virtual Server**. The **New Virtual Server Details** selection page is displayed.

2. Select the Hypervisor.

3. Select the Number of Virtual Servers.

4. Select the Number of CPUs.

5. Enter the Memory in MB to allocate for the VM.

6. Create a Hostname.

7. Create an Inventory Folder name.

8. Set the Virtual Server attributes.

9. Set the virtual Server-Storage options.

10. Set the Virtual Server- Network options.

11. Set up OS Provisioning.

12. Set up Email Notifications and Ticket ID (optional).

Define compliance for provisioned servers

> **Note:** This feature is only available in the Premium edition.

After you provision a new server, you can optionally attach it to the business services and policies defined in ITOC.

- **Attach business services** – Select this option to attach the provisioned servers to an already existing business service. This means that the compliance policies and maintenance windows are already defined.

- **Attach policies** – Select this option to attach the provisioned servers to policies defined in ITOC. A new business service that will include the new provisioned servers is created. The selected policies are attached to it through a Statement of Applicability that is automatically generated.
  - **Select policies** – Select all the policies that need to be attached to the new server.

  - **Select maintenance windows** – Select the maintenance windows when operations on the new servers may be performed.

  - **Input Business Service name** – Provide a name for the new business service that will be created

  - **--NONE--** to have DCA generate a name.

Server policy remediation

This service offering allows you to remediate predefined software applications, scripts, and patch policies to individual servers or device groups.

Subscribe to the Server Policy Remediation offering

1. Log onto the Operations Portal at `https://<ipaddress>:8079`.

2. Click **All Services**.

3. Select the **Server Policy Remediation** offering.

4. Select one of the following options:

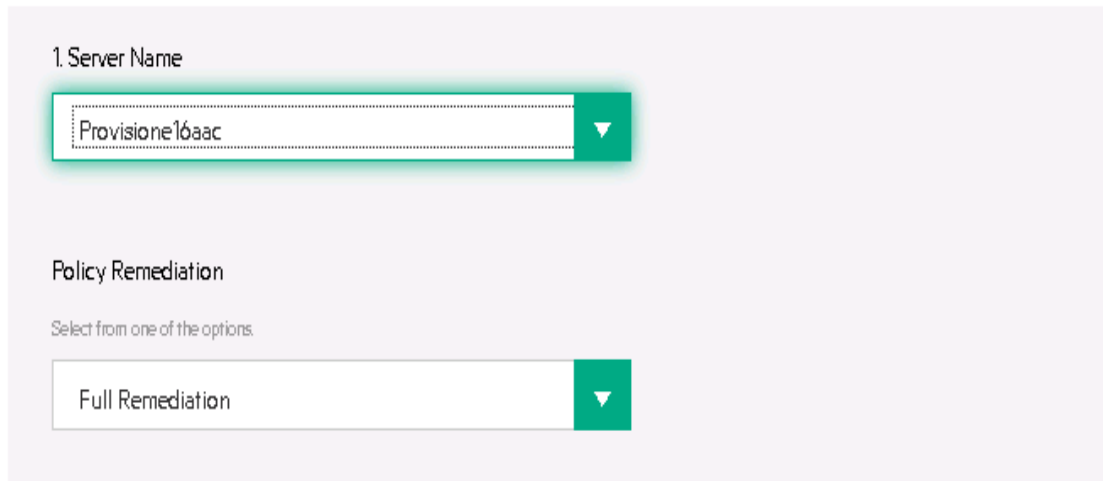   ○ **Remediate Patch and Software Policies on a Device Group** - Select the static or dynamic device group and policy remediation option from the list of options.

   ○ **Remediate Patch and Software Policies on Individual Server** - Select the server name and

remediation option from the list of options.

5. Additional options to send e-mail notification and attach ticket ID can also be selected, but are not mandatory.

6. Perform a checkout and submit the subscription.

7. After the subscription is active, click on the subscription to view details.

> **Note:** Ubuntu Server Patch policies are listed under software policies. You may use either full remediation or software remediation for Ubuntu systems.

Cart and checkout

You may order several services in one request by adding them to a cart. Note that if not all the mandatory fields have a value, those that still require a value are highlighted and the **Cart** and **Checkout** buttons are not active. Once all required options are selected, you can click **Cart** or **Checkout**.

After providing all the required inputs, clicking **Checkout** will provide a screen to finalize the order. Clicking **Add to cart** button instead, will add your request to a cart and a screen with the current content of the cart will be displayed. You can access the cart at any time by clicking the cart icon at the top of the screen.

In the cart screen, you can:

- Click **Edit Configuration**, which allows you to change the selected options for the offering

- Click **Remove Item** to remove the offering from the cart.

- Click **Continue Shopping** to go back to the **Browse Catalog** window and make additional selections

- Click **Checkout** to finish the request. Additionally, you can also:
  - Add subscription names: Type in a unique name in the **Subscription Name** field to provide a unique name and description to distinguish your service offering.

  - Configure the Subscription Period, which is the time period governing all subscriptions in your cart, such as Recurring, Term, or you can select a specific Start Date and End Date for the subscription.

  - Attach documents related to this subscription, such as contracts or terms and conditions for the subscription.

- When you are finished, click **Submit Cart**.

Cancel a subscription

You can cancel and delete a subscription for any offering at any time. Complete the following steps to cancel a subscription:

1. Click **All Subscriptions**.

2. Locate the subscription that you want to cancel.

3. Click **Cancel Subscription**.

4. Refresh the page and when the subscription has been cancelled, you can click **Delete** to remove it.

5. If email is added to the subscription, the recipient is notified that the subscription is now cancelled.

Get support

Contact your HPE Support Representative for any information on DCA or on your Support and Maintenance contract.

Log collection for support

- Run `/opt/opsware/oi_util/support_tools/sa_scenesnap.sh` to collect is a good starting set of logs for support.

- The logs are gathered in the following location: `/var/opt/opsware/tmp/`

- The file will be named: `sa_scenesnap.<hostname>.<date>.<time>.zip`

- The log collection for support for Operations Portal and OO.

Additional support for DCA Suite Premium

The DCA Suite Premium edition provides the following additional support:

- **More Content**: Additional supported content packs available for download

- **Audit and Remediation**: Additional audit and remediation capabilities

- **Larger supported environment**: A single installation of the Premium edition can support up to 3000 licensed servers on a network

- **Provisioning and managed platform**: Solaris x86 support including support for Solaris zones

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Feedback on User Guide (Data Center Automation Suite 2016.10)

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We appreciate your feedback!