Hybrid Cloud Management

Software Version: 2017.05

Apache Tomcat Standalone Basic Provision 17.05

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Introduction

This section describes how to use the Apache Tomcat capsules as a provider for HPE Hybrid Cloud Management 2017.05 to deploy Tomcat application server using templates. The Service Designs simplify and accelerate the creation of the application server lifecycle Service Designs and implementation so that it can be consumed more easily by business users, as well as managed more quickly and consistently by application server administrators. They also enable the users to provide self-service offerings to install application server instances and to manage their lifecycle, or to manage the lifecycle of pre-installed application server instances.

Audience

Capsules are designed and built with ease of deployment and consumption in mind. However, Capsule installation and configuration still require domain expertise with the underlying cloud provider or associated vendor technology. The Cloud Service Automation Content Administrator should be familiar or work with certified personnel to properly deploy the out-of-the box capsule content including service provider properties, service designs and service offerings.

Pre-deployment requirements

This topic lists the requirements that must be met before you import the Apache Tomcat capsule, use the service designs, and create subscriptions in the marketplace.

- Ensure that the HPE Hybrid Cloud Management 2017.05 is configured, operational and ready for content execution.

- Ensure that you have a shared location to store the required Runtime Client Solution binaries and Apache Tomcat binaries, for example **/var/vols/itom/hcm/shared/content/resources/dma-binaries** as a file server. The file server details need to be updated in the service design.

- Ensure that the following requirements for the target system are met:

    - The root user has `sudo` access.

    - Java Development Kit (JDK) version 1.7 or later is installed.

Set up Runtime Client Solution files

The DMA Client binaries are available in the Runtime Client Solution Pack. These files must be copied into the file server or shared folder, for example, /var/vols/itom/hcm/shared/content/resources/dma-binaries:

- dma_oo_client_bin_linux.zip

- dma_oo_client_bin_windows.zip

- dma_oo_client_code_linux.zip

- dma_oo_client_code_windows.zip

- dma_oo_client_bin_linux.zip.MD5

- dma_oo_client_bin_windows.zip.MD5

- dma_oo_client_code_linux.zip.MD5

- dma_oo_client_code_windows.zip.MD5

Install Content Capsule

Use the Content Store area in the Cloud Service Management Console to consume and deploy the content from the CSA platform directly, instead of downloading the Content SDK available from CSA. To consume and deploy the content, you must have Content Manager or Administration rights. For more information about Content store, see HCM documentation.

Environment requirements and support matrix

The following table shows the major components required to use this implementation. The versions of components listed in this table are supported for HPE Hybrid Cloud Management Suite 2017.05.

Component	Supported Version[1]
Hybrid Cloud Management	2017.05
File server	Linux server with administrator privileges, to be used as a repository to upload and download content or software.
Virtualization	1.9.1
Base Utility	16.12
VMWare vCenter Compute	16.07

1. HPE recommends to use the latest product versions.

Support matrix

The following table shows the platform support and database support for Apache Tomcat capsule:

Capsule	Operating system	
Apache Tomcat	Red Hat Enterprise Linux 5, 6	7, 8

Configure Offerings in Cloud Service Automation

Resource categories that are referenced in a service design will be automatically created when the service design archive is imported.

Service Designs	Provider
Apache Tomcat Standalone Basic Provision	Database and Middleware

Adding a Resource Provider

Resource providers must be created in CSA/Codar. The following table lists the resource providers required for this integration and the service access point. You should change them to reflect your environment.

Provider name	Service access point
Database and Middleware	Provide Database and Middleware identity service access endpoint: http://<ip or host>:<port>/version Example: `https://mycompany.com:8445/oo`

Perform the following steps for the provider:

1. Log on to the **Cloud Service Management Console** as administrator.

2. Click **Providers**.

3. Select the Provider from the panel on the left.

4. Click **Gear icon** ⚙ at the top right of the toolbar.

5. Click **Create Resource Provider**.

6. Fill in the Create Resource Provider fields.

    a. Enter the **Display Name**.

    b. Enter the **User ID** and **Password** in the respective fields.

    c.   Enter the **Service Access Point**.

7. Click **Create** to complete or **Cancel** to exit.

Create Credentials and System variables

After you import the flows, you must create system variables and credentials to subscribe service successfully.

Define the following credentials and system property under **Operations Orchestration** > **Content Management** > **Configuration items**, if it does not already exist.

Name	Description
OOServer	The user credentials for the OO Server, OO Orchestration is running.
Source	The File Server credentials. Linux File server from where the binaries are downloaded to the target system
SAUser	If you want to use HPE Server Automation (SA) as the file server, configure the SAUser system account.
CSA_ REST_ URI	If you have installed RAS service and CSA on separate systems, you must create or edit the CSA_REST_URI with the FQDN or IP address of the system where CSA is running.

Component properties of Service Designs

The following are the mandatory properties of the Apache Tomcat Standalone Basic Provision service design. You must provide the values of these properties, You can also change the default values of these properties.

Apache Tomcat Standalone Basic Provision

Property name	Default Value	Description
Download Source Host	no default	The host name of IP address of the file server.
Download Source Path	no default	The absolute location of the files to be downloaded in the file server.

Apache Tomcat Standalone Basic Provision, continued

Property name	Default Value	Description
Server Target	no default	The host name or IP address of the target server.
Server Target Password	no default	The target server password.
Server Target Username	no default	The target server user name.
Domain Location	/apps/dma/domain1	The path to Tomcat Domain Location.
Download Location	/tmp	The location where the Java and Tomcat binaries will be downloaded and kept in the target machine.
Install Directory	/apps/tomcat	Fully qualified path of location to decompress binaries of both Java and JBoss.
Java Binary Archive	jdk-7u71-linux-x64.gz	The name of the compressed Java software package.
Tomcat Binary Archive	apache-tomcat-8.0.27.tar.gz	The name of the Tomcat software package.
Tomcat Group	tomcatgrp	The Group to which the Tomcat user belongs.
Tomcat Instance Name	no default	The Tomcat Instance name that should be provisioned under the given domain as specified by 'Domain Location' property.
Tomcat User	no default	The user under which the Tomcat server will run .

To change component properties:

1. Log on to the Cloud Service Management Console as an administrator.

2. Click **Designs** > **Sequenced** > **Designer**.

3. Select the service design.

4. Click the **Version** tab and select the required version of the design.

5. Click **Designer** tab.

6. Select the component.

7. Change values for the component properties as listed in the table above.

8. After making the changes, on the **Overview** tab, click **Publish**, to publish the Service Design.

> **Tip:** Click **Help** icon at the top right corner of the screen to know the details about editing component properties.

Creating Service Offering

A service offering must be created in CSA before subscribers can request services based on this service design.

Complete the following steps to create an offering:

1. Log on to the **Cloud Service Management Console** as an administrator.

2. Click **Offerings**.

3. Click **Create Offering** option from the **Gear icon**.

4. Fill in the Create Offering fields:

   a. Enter the **Display Name** of the new offering. This is the offering that will be visible to the subscribers of this service.

   b. Enter the **Version** with the latest version.

   c. Click the appropriate **Service Design** from the drop down and then click Select.

   d. Enter the **Description** (optional) in the provided field.

5. Click **Create** to complete or click **Cancel** to exit.

> **Note:** After the offering is created, you can modify the pricing information, associate documents or the subscriber options.

Publishing the Service Offering

To publish the Service Offering to the selected Catalog, perform the following task:

1. Log on to the **Cloud Service Management Console** as an administrator.

2. Click **Catalogs**.

3. Select the appropriate Catalog.

   > **Tip:** Global Shared Catalog is installed by default when CSA gets installed. When you publish a service offering to this catalog, it will be visible in ever organization's Marketplace Portal.

4. Click **Offerings** tab, and then click **Add Offering**.

5. Select the service offering you created from the options displayed.

6. Click the **In Category** drop down, and then select the category from the list.

   In the Marketplace Portal, the Service Offering will appear under this category.

7. Click **Publish** to complete or Cancel to exit.

8. A pop-up appears, click **OK** to confirm.

The service offering published to the selected catalog is now available for subscription.

> **Note:** You can also publish the service offering after creating it in the **Offering** tile. Go to **Offering** tile, select the created offering, click **Publishing** tab, click **Publish** select the **Catalog** and **Category**, click **Publish** to complete.

Subscribe to Service

After the service offering is published to a catalog, you can subscribe it from the Marketplace Portal. If you have configured multiple organizations in CSA or published your service offering to a catalog other than the Global Shared Catalog, log on to the appropriate Marketplace Portal of your organization.

To subscribe to the service:

1. Log on to the **Marketplace portal** (https://<hostname>:8089) as a consumer.

2. Click Sidebar Menu from **Dashboard**, and then click **Browse Catalog**.

3. Click on the published Service offering

4. Enter the required values to subscribe for the offerings.

5. Click **Checkout**.

6. Enter the details such as the **Subscription Name** and **Start Date** of the subscription.

7. Click **Submit Request** to complete subscription process.

To monitor the status of subscription, click on the **Subscriptions** tab.

Cancel Subscription

To cancel a subscription:

1. Log on to the Marketplace portal (https://<hostname>:8089) as a consumer.

2. On the Sidebar Menu, click Subscriptions.

3. Identify the subscription that you want to cancel.

    a. Click the subscription to view its details.

    b. Click Cancel Subscription.

    c. Click Yes to confirm cancellation or click No to exit.

Note: The request is approved automatically, and shows the status as **Approved** in the **Requests** tab.

Support

All CSA Customers are entitled to browse, download and deploy CSA content capsules. The level of Support provided with this Capsule is associated with the respective Capsule Content Type For more information about the different content type supported and their level of support, see
https://hpln.hpe.com/help/content-type-support

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