



Cloud Service Automation

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For Linux operating systems

Integrate

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Contents

Integrate with content capsules	4
Install Content Capsule	5
In HCM Suite Environment	5
In Standalone CSA Environment	6
Configure Content Capsule	7
Product Compatibility Matrix	7
Content Capsule Library	8
Update OO jar	9
Send documentation feedback	12

Integrate with content capsules

This section provides information about the Cloud Service Automation (CSA) and Application Release Automation (Codar) content that is available to all CSA and Codar customers.

Each content is delivered as capsules and can be deployed during the product installation or from the content store available on CSA and Codar.

Note: Content store is an interface between CSA users and the ITOM Marketplace portal. It gives an easy access to all supported capsules.

What is are capsules?

Capsules are a bundle or collection of artifacts that cater to multiple cloud products and enable a CSA administrator to build and deploy rich cloud services. Each capsule contains CSA and Operations Orchestration (OO) artifacts.

Note: Each capsule contains a different combination of artifacts based on its functionality.

The CSA artifacts include Service designs, Service offerings, Component templates, auxiliary files (JSP or JS files), database components and file system components. The OO artifacts include all the OO content packs.

Note: A OO content pack contains all the OO flows and other operations that are linked by decision-making logic in order to automate tasks.

What is a manifest file?

Capsules contain manifest files. The manifest files are the contract of all artifacts present in the capsule and has information about the service designs, OO content packs, auxiliary files, and so on. The capsule installer reads the manifest file and executes the instructions.

Capsules are thus the new, easy and efficient delivery format to create and share CSA content across environments.

When are capsules released?

Capsules are released often to address the need to support new technologies and content fixes. New capsules are published on the ITOM Marketplace independent of the CSA and OO releases. We recommend that you often visit the [ITOM Marketplace](#) and subscribe to associated forum to be informed about changes in capsule.

CSA Out of the Box content obtained during product installation, upgrade, or directly from ITOM Marketplace comes with its own release notes and compatibility matrix.

For a complete set of supported content:

1. Go to [ITOM Marketplace](#)
2. Go to Hybrid Cloud Management
3. Click Capsule. All capsules are displayed.

Cloud Service Automation Content Catalog is available at

[https://marketplace.saas.hpe.com/itom/category/all?product=Cloud Service Automation \(CSA\)&version=All versions&company=All companies](https://marketplace.saas.hpe.com/itom/category/all?product=Cloud Service Automation (CSA)&version=All versions&company=All companies).

Note: Download the CSA Content SDK to build your own capsules from <https://marketplace.saas.hpe.com/itom/content/hpe-csa-content-sdk>. The SDK contains a set of tools and best practices to build portable content known as Capsule. We encourage the overall CSA ecosystem to publish new capsules on ITOM Marketplace as community content.

Install Content Capsule

You can install the content capsule in a HCM suite environment or in a standalone CSA environment:

In HCM Suite Environment

During HCM Installation, you can choose to deploy the content capsules in your environment. The content capsules are grouped under tags/ tiles. Select the tag/ tile according to the required capsule grouped under the tags/ tiles as mentioned below:

- Compute
- Network
- Application
- Monitoring
- Compliance
- IT management
- Others.

Note: You can choose a particular category (tag or tile) and deploy all the capsules available in

that category.

After installing HCM, if you have to deploy content capsules, you can choose to deploy using [Content Store](#) or [Capsule Installer](#).

In Standalone CSA Environment

For Standalone CSA, you can either use Content Store or Capsule Installer to install content capsule:

Using Content Store

Follow the steps to install content capsule using the Content Store:

1. Log on to the **Cloud Service Management Console** as an administrator.
2. From the **My Applications** panel, go to the **Settings** tab and configure access to [ITOM Marketplace](#) content store.

Note: This configuration must be done when you log in for the first time only.

3. From the **My Applications** panel on to the **Cloud Service Management Console**, go to the **Content Store** tab.
4. Browse, search, filter and deploy the content capsules automatically.

For more information, see the CSA Administrative Guide from [HPE Software Support](#).

Using the Capsule Installer

Follow the steps to install content capsule using the Capsule Installer:

1. Download the latest Capsule Installer (Installer and Content Installer Guide) from <https://marketplace.saas.hpe.com/itom/content/hpe-csa-content-capsule-installer>

Note: Make sure that you use the appropriate version of the Capsule Installer that corresponds to the CSA environment.

2. Run the CSA Cloud Content Installer manually in the GUI mode or Silent mode. For detailed information, see [Cloud Content Capsule Installer](#) for details.

After you install the content capsule, you must configuring an offering in CSA and subscribe to a service.

Configure Content Capsule

The capsule import mechanism, imports the CSA templates, services and offering along with the OO content packs. After importing the capsule, you must log on to Cloud Service Management Console and perform configurations as described in individual capsule user guides.

Product Compatibility Matrix

Capsules may require one or more of the following:

Component	Supported version	Recommended version
HPE Cloud Service Automation	4.9	4.9
Application Release Automation (Codar)	1.81	1.81
HPE Operations Orchestration	10.70	<p>OO 10.70 with following standard content packs:</p> <ul style="list-style-type: none"> oo10-cloud-cp -2.1.1 oo10-base-cp-1.10.0 oo10-hpe-solutions-cp -1.11.0 oo10-virtualization-cp – 1.10.0 oo10-sa-cp -1.3.0.005 oo10-sm-cp -1.0.3 <p>CSA-INTEGRATIONS - 4.70.0000</p> <p>Default Path in Standalone CSA: <CSA_HOME>\CSAKit-4.7\OO Flow Content\10X</p> <p>Default Path in HCM master node: /var/vols/itom/hcm/shared/content/content-packs</p> <p>Note: Listed above are the current OO versions. These will be installed</p>

Component	Supported version	Recommended version
		<p>automatically when the user installs the contents. You can get the latest content pack from https://marketplace.saas.hpe.com/itom/category/all?product=Operations%20Orchestration</p>

Note: CSA OOTB Sequenced service designs, offerings, and subscriptions are not supported with HPE Codar only license. Add CSA license on Codar to get these features.

For information about topology and sequenced service designs, see [Cloud Service Automation Concepts Guide](#)

Content Capsule Library

The following table provides you the links to navigate to the content capsule documents of CSA that are available on the ITOM Marketplace:

Content Capsules	View Document	Download Capsule	Model
Capsule Amazon EC2 Topology	View	Go	Topology
Capsule Amazon EC2 - Sequence	Coming soon*	Go	Sequence
Capsule F5 BIG-IP LTM Load Balancer Managed Network	Coming soon*	Go	Sequence
Capsule Brown-to-Managed Compute	View	Go	Sequence
Capsule Go Active	View	Go	Sequence
Capsule Network Automation	View	Go	Sequence
Capsule Service Instance Upgrade	View	Go	Sequence
Capsule Service Manager	View	Go	IT Service Management
Capsule Server Automation	View	Go	Sequence
Capsule Operations Analytics	View	Go	Sequence
Capsule Cloud Optimizer	View	Go	Sequence

Content Capsules	View Document	Download Capsule	Model
Capsule Microsoft Azure	View	Go	Sequence
Capsule Microsoft SCVMM Compute	View	Go	Sequence
Capsule OpenStack Sequential	View	Go	Sequence
Capsule OpenStack Topology	View	Go	Topology
Capsule VMware vCenter - Sequence	Coming soon*	Go	Sequence
Capsule VMware vCenter - Topology	View	Go	Topology

* The HTML version of the document will be soon available. PDF version of the document can be download from the Marketplace Portal. Follow the links provided in the table.

Note: Capsule marked with * are applicable only for Application Release Automation.

Update OO jar

To update any of the OO jar, the user needs to extract the OOTB capsule and select the intended jar.

User can import the OO jar to OO studio and start updating the OO jars.

Use case	OO jar
Amazon AWS Integration	amazon-aws-integration-16.12.jar base-utility-16.12.jar
Amazon EC2 Topology	amazon-ec2-topology-16.12.jar
Capsule Azure Integration	microsoft-azure-16.12.jar base-utility-16.12.jar
OpenStack	openstack-common-utility-16.12.jar openstack-seq-16.12.jar base-utility-16.12.jar
OpenStack Topology	csa-openstack-topology-16.12.jar
Providers Go Active	providers-go-active-16.12.jar
Capsule F5 BIG-IP LTM Load Balancer Managed Network	f5-big-ip-ltm-load-balancer-16.12.jar base-utility-16.12.jar

Use case	OO jar
Capsule Microsoft SCVMM Compute	scvmm-hyperv-16.12.jar base-utility-16.12.jar
Capsule HPE Brown-to-Managed Compute	brown-to-managed-16.12.jar base-utility-16.12.jar
Provision VLAN using Network Automation	vcenter-compute-16.07.jar provision-vlan-using-network-automation-16.12.jar base-utility-16.12.jar
SA Software Policies Deployment on vCenter Compute	vcenter-compute-16.07.jar sa-agent-installation-16.07.jar sa-software-policies-16.12.jar base-utility-16.12.jar
Capsule HPE Server Automation Audit Compliance	vcenter-compute-16.07.jar sa-agent-installation-16.07.jar server-automation-audit-compliance-16.12.jar base-utility-16.12.jar
Capsule HPE Server Automation Patching Compliance	vcenter-compute-16.07.jar sa-agent-installation-16.07.jar server-automation-patching-compliance-16.12.jar base-utility-16.12.jar
Service Manager Integration	service-manager-16.12.jar base-utility-16.12.jar
vCenterTopology	vcenter-compute-16.07.jar sitescope-16.07.jar
VMWare vCenter Compute	vcenter-compute-citype-16.12.jar base-utility-16.12.jar
VPV Integration	vcenter-compute-16.07.jar base-utility-16.12.jar

Use case	OO jar
	vpv-integration-16.12.jar
Capsule Cloud Agnostics	dma-premium-database-10.50.000.000.jar dma-premium-middleware-10.50.000.000.jar dma-premium-utilities-10.50.000.000.jar base-utility-16.12.jar cloud-agnostic-16.12.jar vcenter-compute-citype-16.12.jar microsoft-azure-16.12.jar
Capsule HPE OpsAnalytics	ops-analytics-for-log-collection-on-vcenter-16.12.jar vcenter-compute-16.07.jar base-utility-16.12.jar
Capsule ALM Topology	alm-17.05.69.jar
Capsule Auto Generate Topology	auto-generate-17.05.46.jar
Capsule Cloud Management Platform Topology	cloud-management-platform-17.05.20.jar
Capsule Jenkins Plugin Topology	jenkins-plugin-17.05.40.jar
Capsule Script Action Topology	script-action-17.05.62.jar
Capsule Windows XI Server Topology	existing-infrastructure-windows-17.05.0.jar
Capsule Server XI Pool Topology	existing-infra-17.05.2.jar
Capsule Helion Stackato Topology	stackato-17.05.1.jar
Capsule Mesosphere DCOS Topology	mesosphere-dcos-17.05.0.jar
Capsule Docker UCP Integration Topology	docker-ucp-data-center-17.05.25.jar
Capsule Docker Topology	docker-17.05.35.jar

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