

HP Cloud Service Automation

What's New in HP Cloud Service Automation 4.50



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HP Cloud Service Automation 4.5 overview

HP Cloud Service Automation (HP CSA) is a unique platform that orchestrates the deployment of compute and infrastructure resources and complex, multi-tier application architectures. It is an enterprise grade cloud lifecycle management solution for heterogeneous environments. HP CSA integrates and leverages the strengths of several HP datacenter management and automation products, adding resource management, a service offering design, and a customer portal to create a comprehensive cloud management platform.

The HP CSA subscription, service design, and resource utilization capabilities address three key challenges:

- The Marketplace Portal provides a customer interface for requesting new cloud services and for monitoring and managing existing services, with subscription pricing to meet your business requirements.
- The HP CSA graphical service design and content portability tools simplify developing, leveraging, and sharing an array of service offerings that can be tailored to your customers' needs.
- The HP CSA lifecycle framework and resource utilization features ease the complexity of mapping your cloud.

What's New in HP Cloud Service Automation 4.50

- **Seamless integration with OpenStack**
- **Global search for service consumers**
- **Improved multi-tenancy**
- **Pricing and enhanced service consumption experience**
- **Improved service design experience**
- **Scaled service design in service topologies**
- **Service design versioning and access control**
- **Extended resource provider support**
- **Improved time to value**
- **Enterprise grade cloud management platform**

Seamless integration with OpenStack

HP Cloud Service Automation 4.5 provides simplified integration with OpenStack Identity Management to help users use HP CSA as a management platform for OpenStack. To facilitate integration with Automatic Identity Management or Keystone, out-of-the-box content for OpenStack is available in HP Cloud Service Automation 4.5

The generic OpenStack content uses native OpenStack APIs to support all OpenStack distributions.

Global search for service consumers

HP CSA 4.5 introduces integrated elastic search for catalog, subscriptions, and service instances. You can search for Service Offerings, Service Subscriptions, and Service Instances with the embedded search. The search indexes are kept up-to-date by the background service.

Improved multi-tenancy

HP CSA 4.50 introduces improved multi-tenancy. With the improved multi-tenancy, the Consumer Organization Administrator can view and manage the Global shared catalog. The Consumer Organization Administrator can also create offerings based on the published service designs. The Consumer Organization Administrator can also publish the offerings to the organization's catalog.

Pricing and enhanced service consumption experience

Dynamically populated service options provide the ability to define a dynamic set of values, like price, for a list type property. You can set price for a unit of an integer property. In the Marketplace portal, you can expand the price details or also hide all prices for a Service offering in the Marketplace portal. The pricing enhancements provide ability to manage and drive costs of the entire IT ecosystem.

Improved service design experience

The service designer and option editor provide options to make service designing easy and flexible.

- New Topology Designer

With the new service designer you can drag and drop components into a service topology. The new service designer enables the subscriber to define group capabilities and select logical groups.

- New Option Editor

The new option editor provides the flexibility to manage the increasing number of components in the design due to expanding environments. The copy, paste, and property option sets facilitate rapid time-to-value.

Scaled service design in service topologies

In topology based designs, components grouped together can be grouped as a repeatable unit. These groups help in standardizing and repeating components to create a scalable stack of components, which behave as a template. In this stack, the components have same property and behavior.

Service design versioning and access control

HP CSA 4.50 introduces the ability for service designers to create multiple versions of service designs. New versions of service designs are created so that service providers can deliver improvements. A new version inherits the display name and icon from the original design. You provide a version number (or string), description, and URL that are unique to a particular service design version. Any or all versions of a design can be published.

Extended resource provider support

HP CSA 4.5 supports other resource providers such as HP OneView, Puppet, ICSP, Docker, Chef, and HP Operations Orchestrator. HP OneView servers can be used to deploy firmware, BIOS, networking, storage connections, and storage volume systems on top of operating systems. You can deploy the specific operating system using the ICSP build plan. Additional components can be added using the HP OO, Chef, Puppet, or Docker providers. HP OO now includes content specific to Docker.

Improved time to value

The HP CSA 4.5 installer now includes the Cloud Content Pack installer which installs the out-of-the-box service designs. The out-of-the-box service designs provide rapid time-to-value, flexibility, and ease of operation. Improvements to backend queries to database and platforms help tune performance at the platform level providing faster response times.

Enterprise grade cloud management platform

HP CSA 4.5 has horizontal scaling with active-active cluster for distributed workloads. The REST API has been modified for improved scaling to support expanding services designs and increasing environments, and to support high availability. The active-active cluster configuration enables CSA deployments with large numbers of concurrent deployments and managed instances. You can use HP CSA as the platform to manage operating system instances and transform traditional workload to cloud workload.