Master any Cloud with Hybrid Cloud Management from HPE
February 2, 2017

Today's Speakers:

Danny Cavion
Director Cloud & Automation Management EMEA
Hewlett Packard Enterprise

Keri Sprinkle
Sr. Product Marketing Manager
Helion Cloud Suite
Hewlett Packard Enterprise

Marc Bernis
DevOps & Cloud Solution Architect
Hewlett Packard Enterprise

Hewlett Packard Enterprise

The webinar will begin shortly.

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Master any Cloud with Hybrid Cloud Management from HPE

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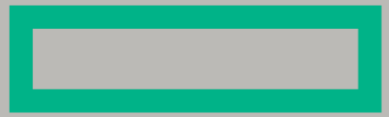

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- This “LIVE” session is being recorded
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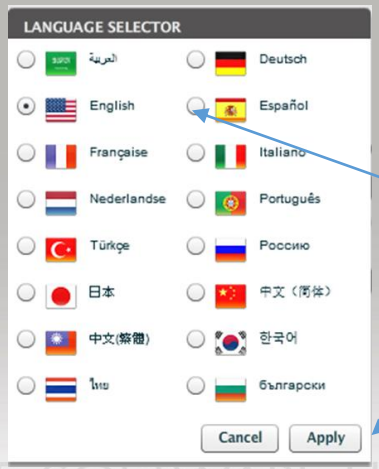

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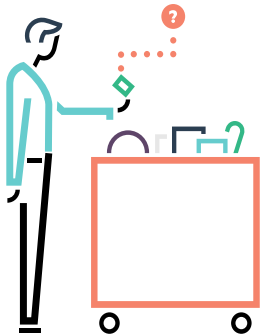
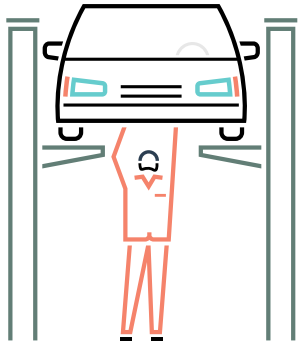
Challenges with hybrid cloud environments



No unified management of various cloud stacks and technologies



Incomplete automation drives up cloud operational cost

Lack of visibility in capacity, placement and resource utilization across various clouds

Lack of self-service with governance policies to enable flexible ordering

So what would you need to effectively manage hybrid cloud?

Central IT needs…

- Effective compliance automation
- Embrace and support ~~shadow IT~~ business unit IT
- End-to-end orchestration across business units, clouds and IT silos
- Unified management of hybrid and heterogeneous environments

Line of business needs

- Flexibility to choose the right tools
- Simplified self-service consumption
- Ability to use new technologies (containers, microservices)
- Agile platform delivery and application deployment

HPE Hybrid Cloud Management

DevOps-ready hybrid and multi-cloud management

- Master of any cloud
- End-to-end orchestration
- ChatOps collaboration
- Automated stage gates for continuous delivery
- Service-level compliance

Hybrid cloud orchestration

Application release automation

Broker compliant services

Comprehensive IT process orchestration

Across any technology

Bare-metal, virtual, containers

Private, managed and public clouds

Traditional and modern apps

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Enable all your business choices

Cloud freedom + technology freedom = business freedom

Hybrid cloud orchestration

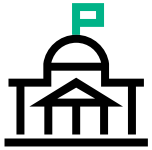
Agility improvement

- Provision, configure and manage hybrid cloud environments
- Comprehensive IT process orchestration
- Showback reporting and workload optimization

Application release automation+

Application innovation

- Pipeline visibility with automated stage gates
- Accelerate support for development processes with XaaS (anything-as-a-service)
- Continuous delivery



Broker compliant services

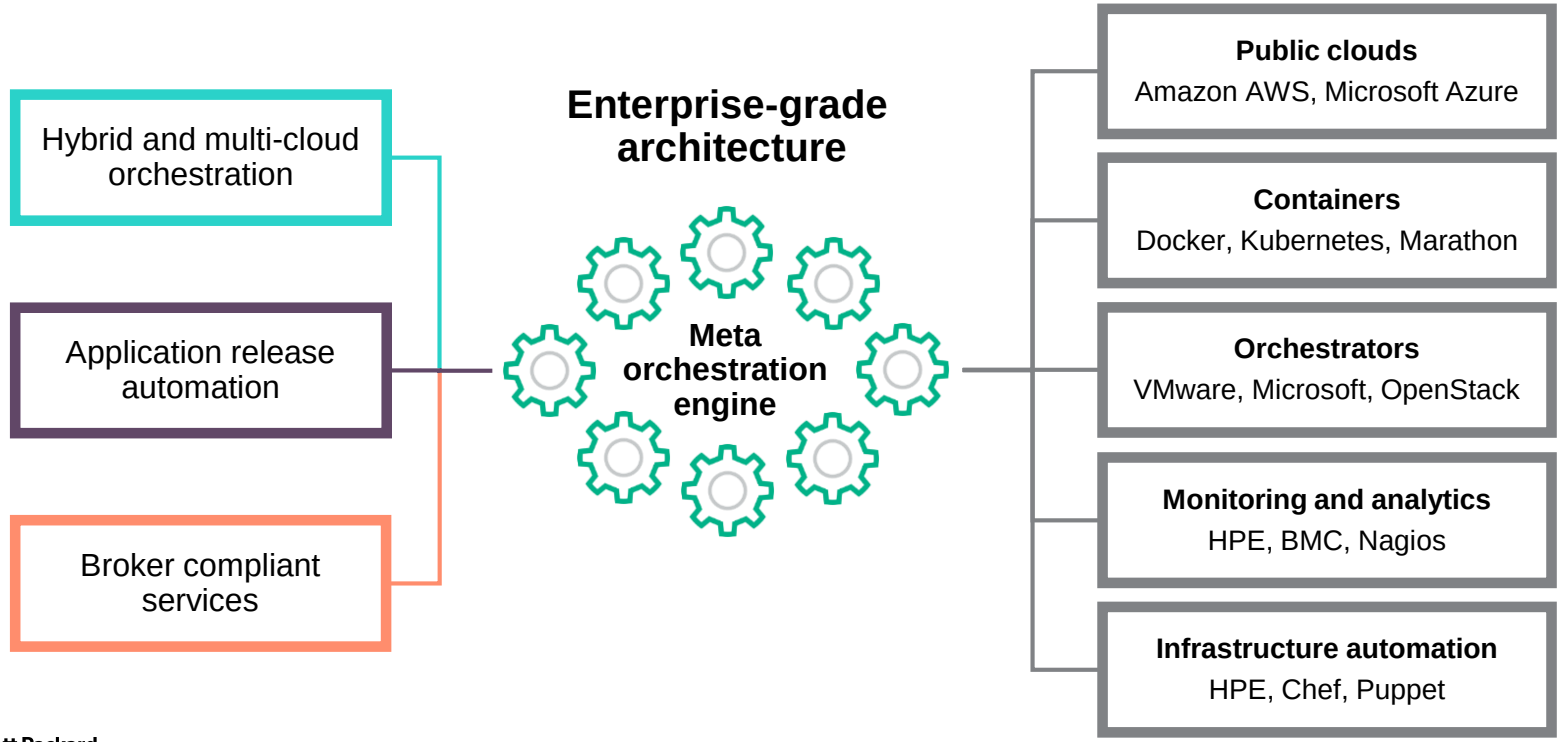
Streamline and simplify

- Service-level compliance automation across IT silos
- Streamlined, user-focused catalog
- Existing service discovery

HCM 2017.01 Demo

Proven orchestrator of orchestrators

Native integration capabilities - No coding or external plug-ins required



HCM Express: Hybrid and multi-cloud management platform

Delivery of Infrastructure as a Service across Hybrid IT

Self-service portal

- Consume infrastructure, platform and applications – with a click through a multi-tenant self service portal

IT Process Orchestration

- Automate IT operations from RBA to cloud with 5000+ workflows, 300+ application components and 80+ integrations

Service design

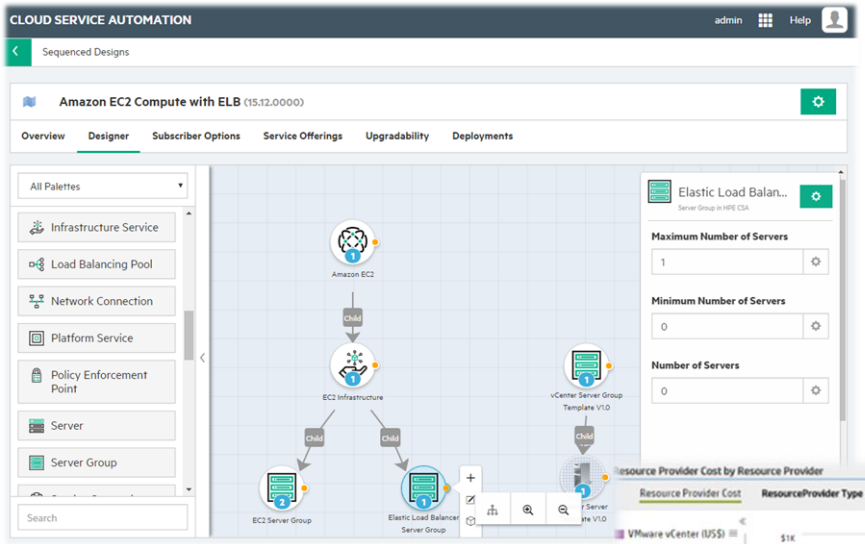
- Cloud agnostic service designs to orchestrate workflows across heterogeneous environments with dual-authoring

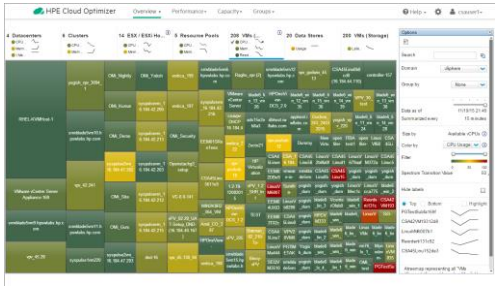
Cost

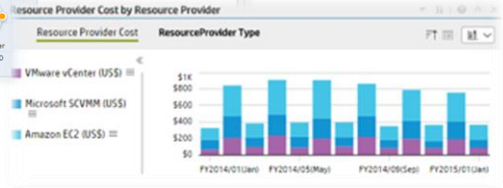
- Rich pricing and show-back capabilities for the line of business

Optimization

- Unified Capacity, Placement & right-sizing recommendations and resource metering

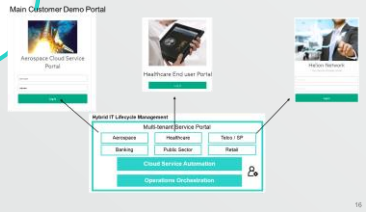




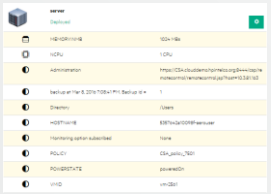


Consume Any Cloud Service

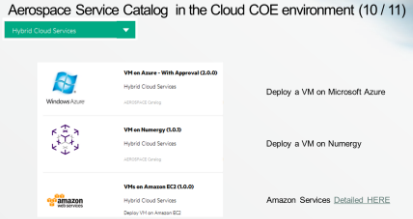
Hybrid Cloud Management Suite Demonstration



Request any kind of cloud services from different private, public clouds and any source from a marketplace



Access & Manage Ordered Services from a single portal



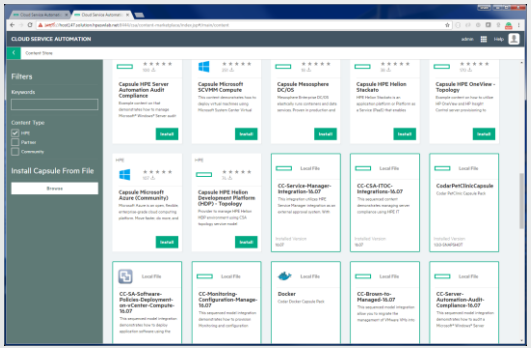
Order Docker containers across publc & private cloud. Migrate them from one env. to another

Marketplace Experience → Service view (Actions & console Integration) → Container As a Service

Cloud User Role | Architects Role | IT Operations Role | COO CFO Role

Simply create Services from content store

Hybrid Cloud Management Suite Demonstration



Get content (Offerings, components palette, designs) from HCM Content store

Install a content capsule, setup designs and offering and consume it in a minute

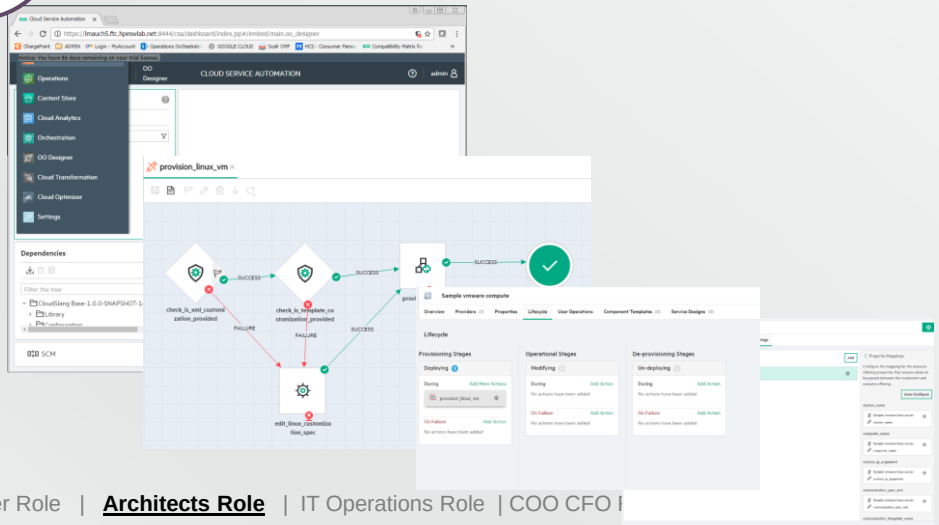
Single click to install content

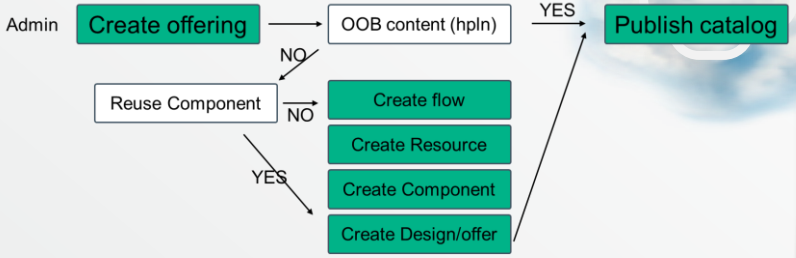
Design Services Leveraging Content & Providers

Cloud User Role | Architects Role | IT Operations Role | COO CFO Role

Design & control Orchestration workflows

Hybrid Cloud Management Suite Demonstration





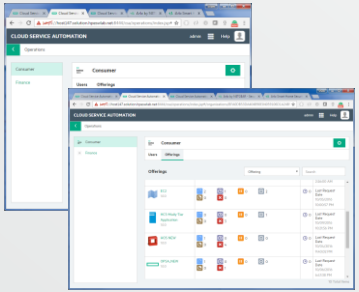
Manage Orchestration content packs and flows library. Control the run, diagnose. Evaluate automation savings. Authoring new orchestration flows to extend controlled objects

Control Automation content & run flows Design or Modify Flows

Cloud User Role | **Architects Role** | IT Operations Role | COO CFO

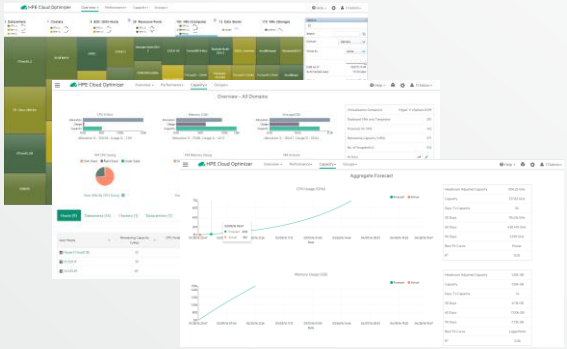
Cloud Operations, Capacity & Performance Consoles

Hybrid Cloud Management Suite Demonstration



Central Services Operation Console to manage existing services and subscriptions (events, ownership, cancel,…)

operation console



Get resources forecast, capacity planning and placement optimization across any kind of resources

Performance View and Capacity Forecast

Cloud User Role | Architects Role | IT Operations Role | COO CFO Role

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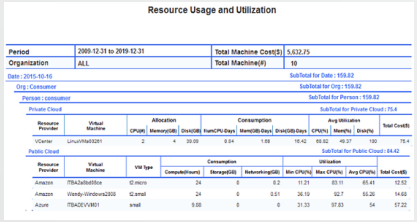
Showback & optimize cloud services usage

Hybrid Cloud Management Suite Demonstration



Resource Usage and Utilization

Period	2009-12-31 to 2019-12-31	Total Machine Cost($)	5,632.75
Organization	ALL	Total Machine(#)	10

Date : 2015-10-16 — SubTotal for Date : 159.82

Org : Consumer — SubTotal for Org : 159.82

Person : consumer — SubTotal for Person : 159.82

Private Cloud — SubTotal for Private Cloud : 75.4

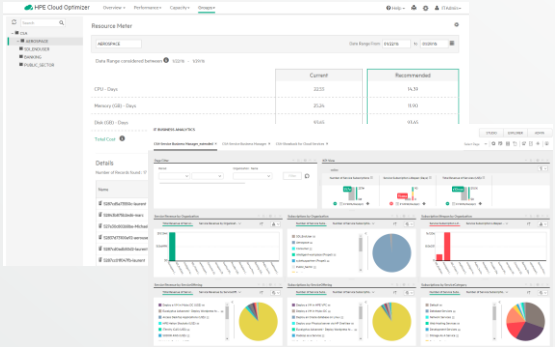
Resource Provider	Virtual Machine	Allocation			Consumption			Avg Utilization			Total Cost($)
		CPU(#)	Memory(GB)	Disk(GB)	Num(CPU-Days)	Mem(GB)-Days	Disk(GB)-Days	CPU(%)	Mem(%)	Disk(%)	
VCenter	LinuxVMx83261	2	4	30.00	0.84	1.68	16.42	68.82	49.37	130	75.4

Public Cloud — SubTotal for Public Cloud : 84.42

Resource Provider	Virtual Machine	VM Type	Consumption			Utilization			Total Cost($)
			Compute(Hours)	Storage(GB)	Networking(GB)	Min CPU(%)	Max CPU(%)	Avg CPU(%)	
Amazon	ITBA2a8a8d8ce	t2.micro	24	0	0.2	11.21	83.11	65.41	12.52
Amazon	Wendy-Windows2008	t2.small	24	0	0.51	36.19	92.7	55.26	14.68
Azure	ITBADEVVM01	small	9.88	0	0	31.33	97.83	54	57.22

Analyze consumption, showback and resources used for you or an organization

Showback & used Resources



Understand how services are consume view major KPIs on the services costs and profits

Cloud analytics

Cloud User Role | Architects Role | IT Operations Role | **COO CFO Role**

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HCM Premium: Application Delivery & Management

Continuous delivery & application release automation for DevOps

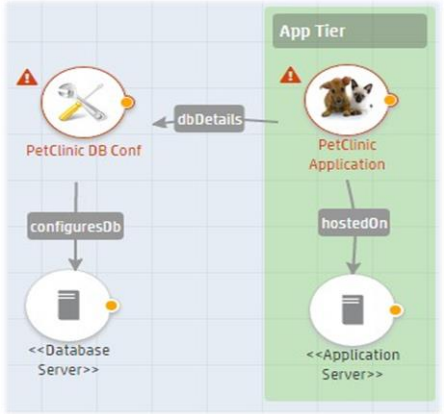
Application Release Automation

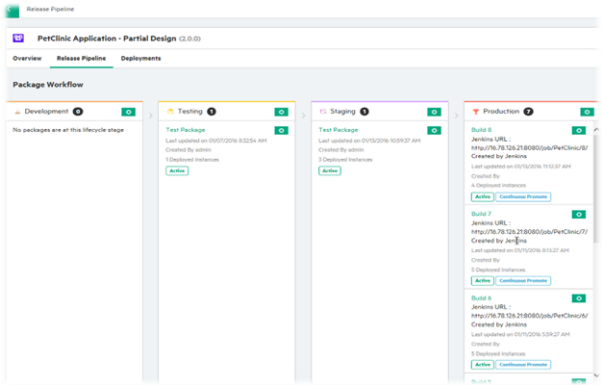
- Delivery pipeline management with build promotion and rejection
- Customizable lifecycle stages
- Release analytics to identify bottlenecks and address them to streamline the release process
- Design and configure applications
- Make application resources available anywhere (Dev, QA, Prod – across private, hybrid and public cloud)

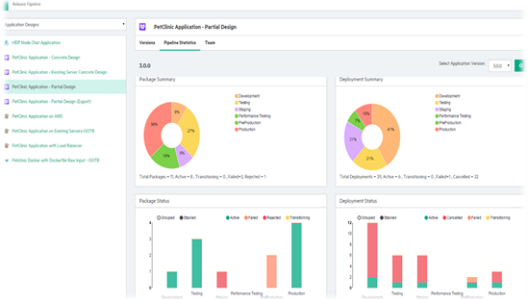
DB & Middleware as-a-Service

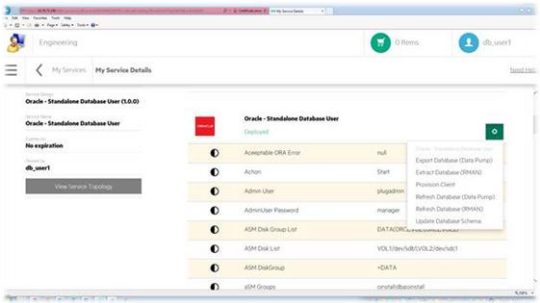
- Provide databases and middleware as-a-Service for consumption
- Automate provisioning & configuration of databases & middleware

HCM Express









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Platform Agnostic Application Release Automation

Release Pipeline Usage | **Customize Pipeline** | **Pipeline statistics**

DEPLOYMENT ENVIRONMENT

Development	Test	Staging	Production
Docker Universal Control Plane	MESOSPHERE	amazon web services	VMware vCenter Server 5.0

ROLES & ACTIONS

Developer

Our R&D unit manages developer instances using **Docker UCP cluster** management platform. I want to leverage UCP features to perform scale out testing.

Test Engineer

Our QA org manages test instances using **Mesosphere** container management platform. I want to leverage Mesosphere features for scale out testing

Release Manager

Our staging environment needs to be accessible to select external users for user acceptance testing. Hence we stage our apps in **Amazon AWS** Platform

Operations Manager

Our production apps run on highly controlled private Cloud. We deploy our applications on **VMware vCenter Server** managed environment.

Application Architect

How do I **model my application topology independent of the deployment platform** and let my ARA tool take care of the platform specifics?

HCM Ultimate: Broke compliant Cloud Services

One stop shop for all cloud services

Cloud Service Brokering

- Broker Services across Private, Managed and Public clouds
- Orchestrate Cloud Operations across Private, Managed and Public Cloud
- Measure service compliance with OOB policies for regulatory standards and industry best practices (PCI, CIS, etc.)

Compliance

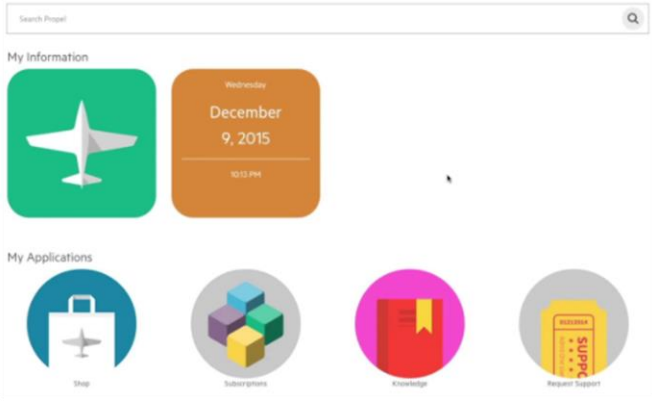
- Automated workload service discovery

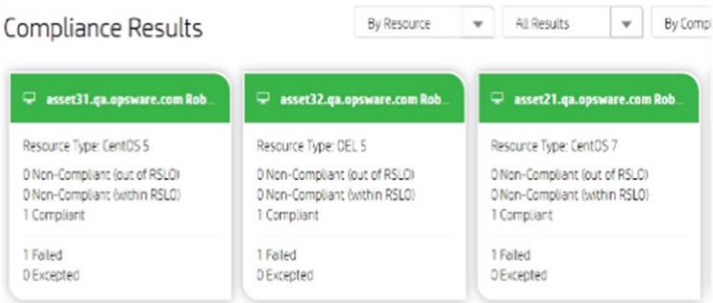
Discovery

- Automated workload service discovery

HCM Premium

HCM Express





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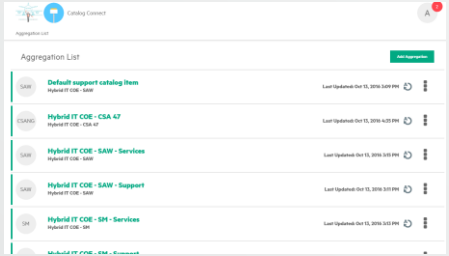
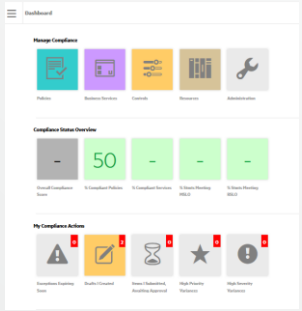
Broke Compliant Services

Hybrid Cloud Management Suite Demonstration



Get Services from multiple sources services providers, combine them in an affordable and efficient way, publish them with your own prices

Create & Publish new Employee Bundle



Ensure Services Compliance on industry standards what ever is the service provider

Ensure Services Compliance

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Summary

Business freedom powered by HPE Hybrid Cloud Management

- **Increased agility** – dramatically improve IT speed and responsiveness through comprehensive IT **process automation**
- Unified **hybrid cloud management**
- Accelerated **application delivery** to enable DevOps speeds within Ops
- Improved **ease of use** and **flexibility**
- Streamlined cloud **compliance**

HPE Hybrid Cloud Management

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- HPE Hybrid Cloud Management Software
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iSpeak Cloud™: Embracing Digital Transformation

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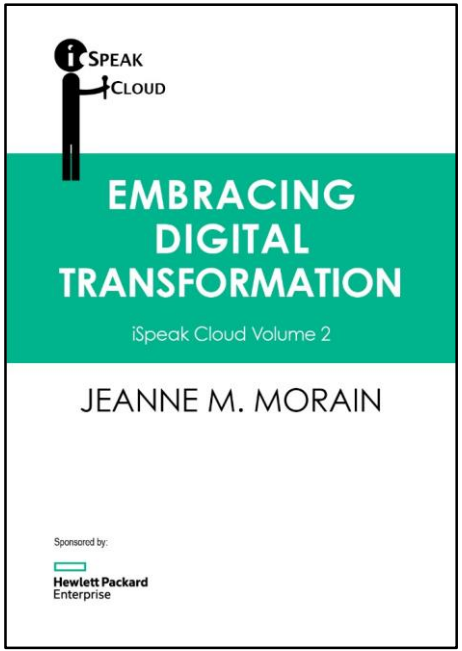

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