

# Cloud Next:

## The Next Generation of Cloud Management Software from HPE

January 24, 2017

### Today's Speakers:



Keri Sprinkle  
Sr. Product Marketing Manager  
Hybrid Cloud Management  
Hewlett Packard Enterprise



Neil Miles  
Sr Product Marketing Manager  
Hybrid Cloud Management  
Hewlett Packard Enterprise



**Hewlett Packard  
Enterprise**



v i v i t

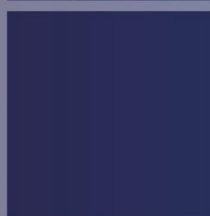
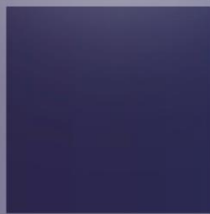
YOUR INDEPENDENT LIFE SOFTWARE DELIVERED COMMUNITY

**The webinar will begin shortly.**

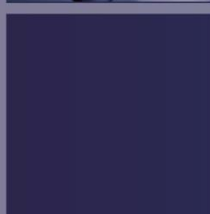
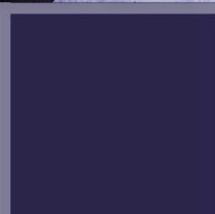


vivit

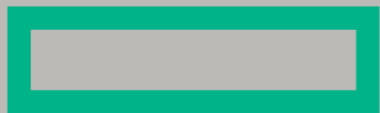
Discover the independent HPE software  
user community where you can  
**share, collaborate, exchange, and grow**



# Cloud Next: The Next Generation of Cloud Management Software from HPE January 24, 2017



# Brought to You By



# Hewlett Packard Enterprise

YOUR INDEPENDENT HPE SOFTWARE USER COMMUNITY



# Hosted By



Mihai Grigorescu  
Vivit TQA SIG Leader  
Vivit Chicago Chapter Leader

YOUR INDEPENDENT HPE SOFTWARE USER COMMUNITY



# Today's Speakers



Keri Sprinkle  
Sr. Product Marketing Manager  
Hybrid Cloud Management  
Hewlett Packard Enterprise



Neil Miles  
Sr. Product Marketing Manager  
– Hybrid Cloud Management  
Hewlett Packard Enterprise

YOUR INDEPENDENT HPE SOFTWARE USER COMMUNITY



# Webinar Housekeeping



The screenshot displays a webinar interface with a sidebar on the left and a main presentation area. The sidebar includes a logo/picture section with the Vivit logo, a Q&A section with a text input field and an 'Ask' button, and a download files section with a table showing no files found. The main presentation area shows 'Slide 2 of 27' with a grid of images. The central image is a blue slide titled 'Building the DevOps Tool Chain' dated 'January 17, 2017'. Other images in the grid include the Vivit logo, a group of people, a lightbulb, and various icons. A red arrow points to the top right corner of the presentation pane, indicating where to click to enlarge the screen.

Slide 2 of 27

LOGO/PICTURE

Q&A

Ask a question

Ask

DOWNLOAD FILES

File Name	Size
No file Found	

Folder: All Files

Discover the independent HPE software user community where you can share, collaborate, exchange, and grow

COMMUNITY

Building the DevOps Tool Chain  
January 17, 2017

EDUCATION

Dial-In #: VoIP or 415-926-7795 or [International Numbers](#) Conference ID: 0866-2702 User ID: 280895

- This “LIVE” session is being recorded
- Recordings are available to all Vivit members
- To enlarge the presentation screen, click on the rectangle in the upper right hand corner of the Presentation pane

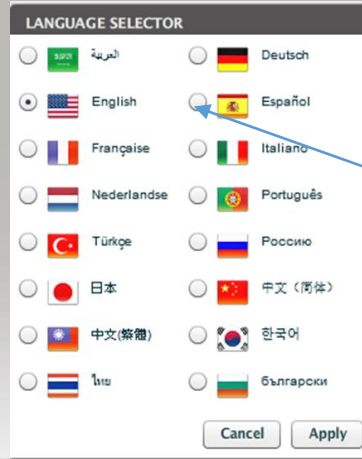
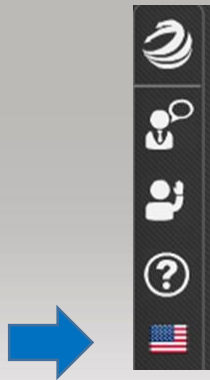


YOUR INDEPENDENT HPE SOFTWARE USER COMMUNITY

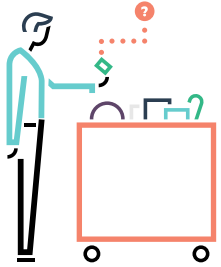


# Webinar Control Panel

- Session Q&A:  
Please type questions in the Q&A pane and click on “Ask”
- Choose the language in which you would like to ask your questions



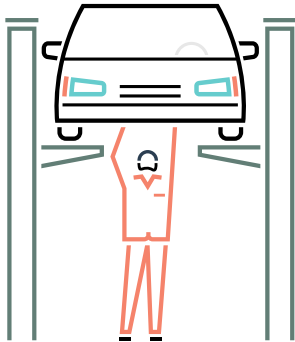
# Central IT operations challenges



Complex technology and cloud stacks limit agility



Many unplanned resource requests



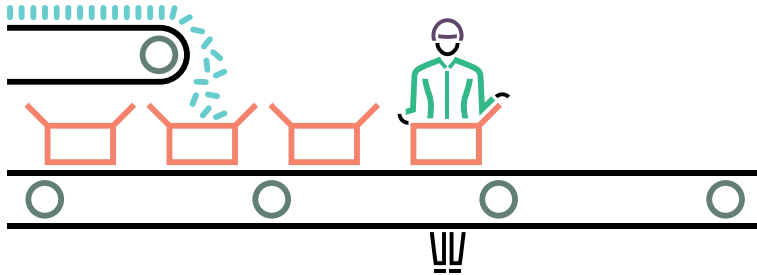
Incomplete automation, still too much manual effort



Compliance still too manual and silo oriented

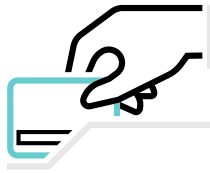
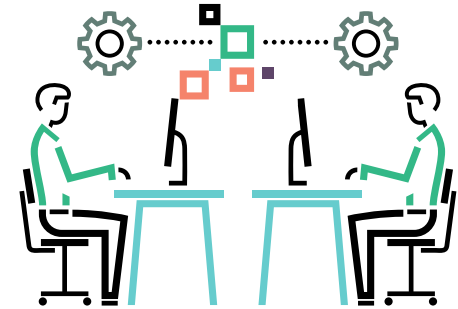


# Line of Business IT challenges



Central IT seen as a bottleneck in getting new, innovative applications into production

Preparing applications for release is still way too manual



Slow Central IT response times encourages LOB users to use their budget to purchase external services

# Adoption of new technology is forcing Ops to evolve

**86%**

are considering  
**containers**



**87%**

are moving toward  
a **DevOps** process



**85%**

will have a  
**continuous  
delivery** process



**“ More than 85% of enterprise IT organizations will commit to multicloud architectures by 2018,** driving up the rate and pace of change in IT organizations; a key element enabling multicloud environments will be ***the rise of containers*** (by 2019, at least one-third of all public cloud IaaS capacity will be deployed as containers).”

IDC FutureScape: Worldwide IT Industry 2017 Predictions  
Nov 2016 Doc # US41883016

# Resulting situation

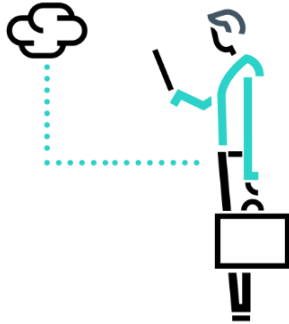
Increasing complexity and business pressures keep Ops in the crosshairs



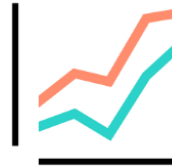
**Slow response  
and  
delivery times**



**Delayed  
innovation and  
time to market**



**Unmanaged  
technology  
spend outside  
of Central IT**



**Increased  
business risk**

# Polling question

Have you chosen a cloud management platform for your organization?

# What if you could?

Simplify cloud service compliance

Automate platform and application deployment

Provide a centralized self-service user portal

Integrate with your existing ecosystem

Unify hybrid and multi-cloud management



**Then you could deliver  
IT services at the  
speed of business**

# What does Central IT need to effectively manage hybrid cloud?



Effective compliance  
automation



Embrace and support  
business unit IT



End-to-end orchestration across  
business units, clouds and IT silos



Unified management of hybrid  
and heterogeneous environments



# What does LOB IT need to meet business requirements?



Flexibility to choose the right tools



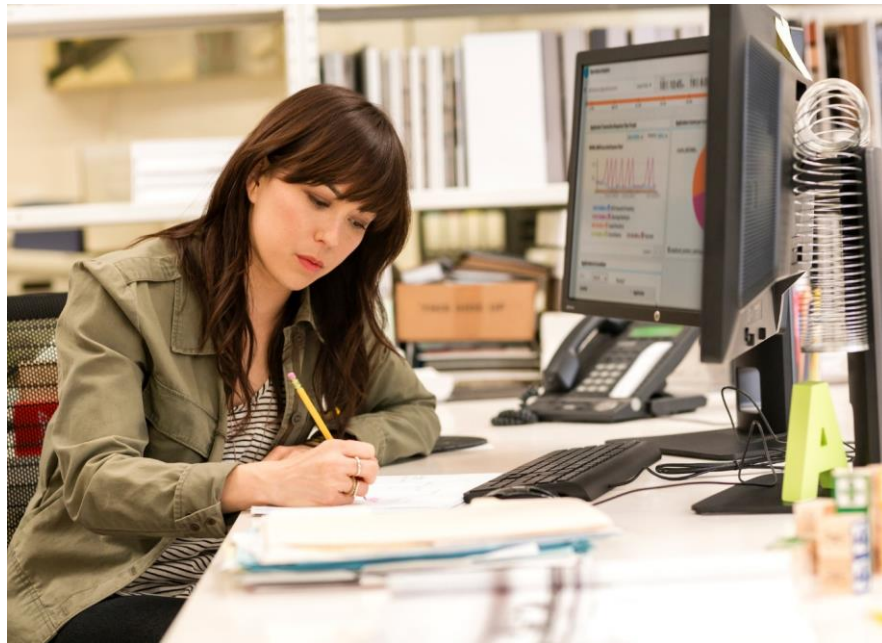
Simplified self-service consumption



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



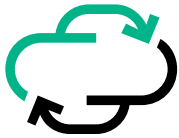
Private, managed  
and public clouds



Traditional and  
modern apps

# Enable all your business choices

Cloud freedom + technology freedom = business freedom



**Hybrid cloud  
orchestration**

## **Agility improvement**

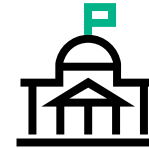
- Provision, configure and manage hybrid cloud environments
- Comprehensive IT process orchestration
- Cloud analysis and showback reporting



**Application  
release  
automation+**

## **Application innovation**

- Pipeline visibility with automated stage gates
- Accelerate support for development processes
- Continuous delivery



**Broker  
compliant  
services**

## **Streamline and simplify**

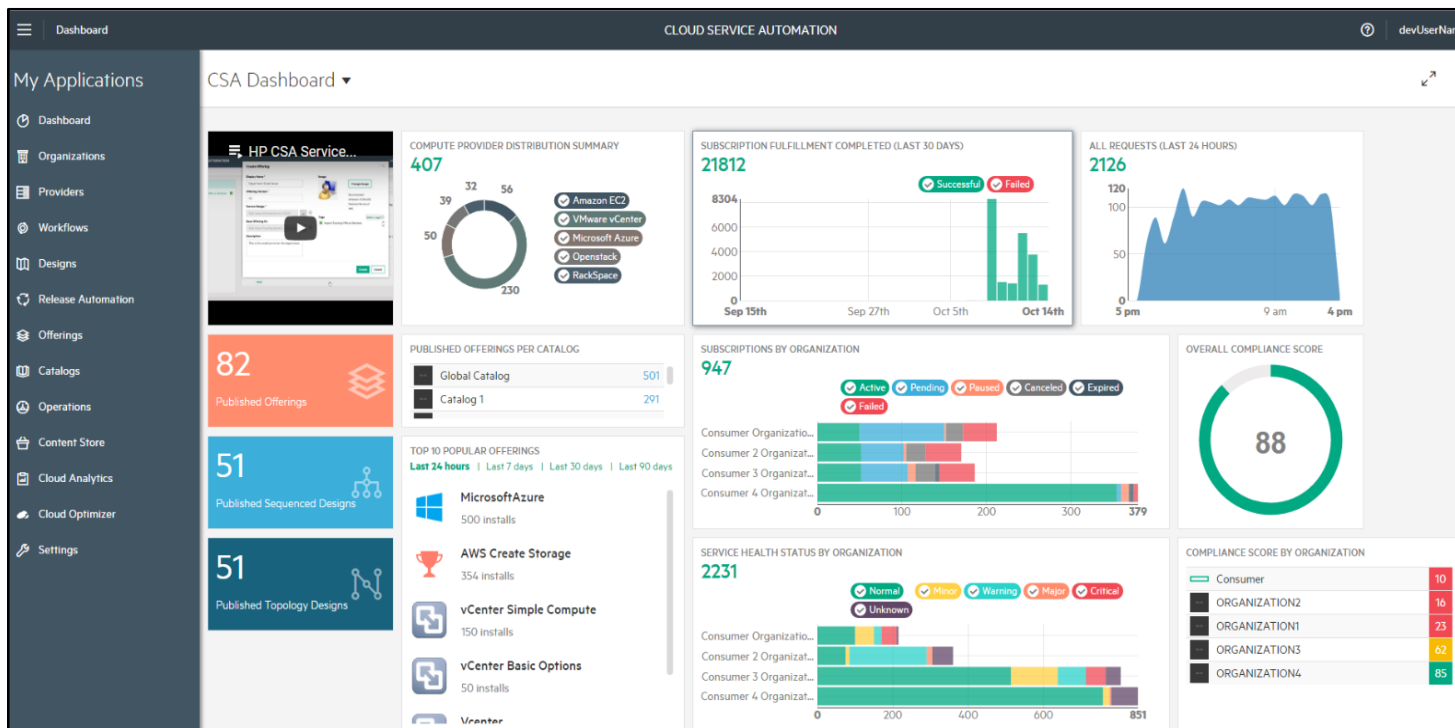
- Service-level and cloud compliance automation
- Streamlined, user-focused catalog
- Workload optimization



# Advantages

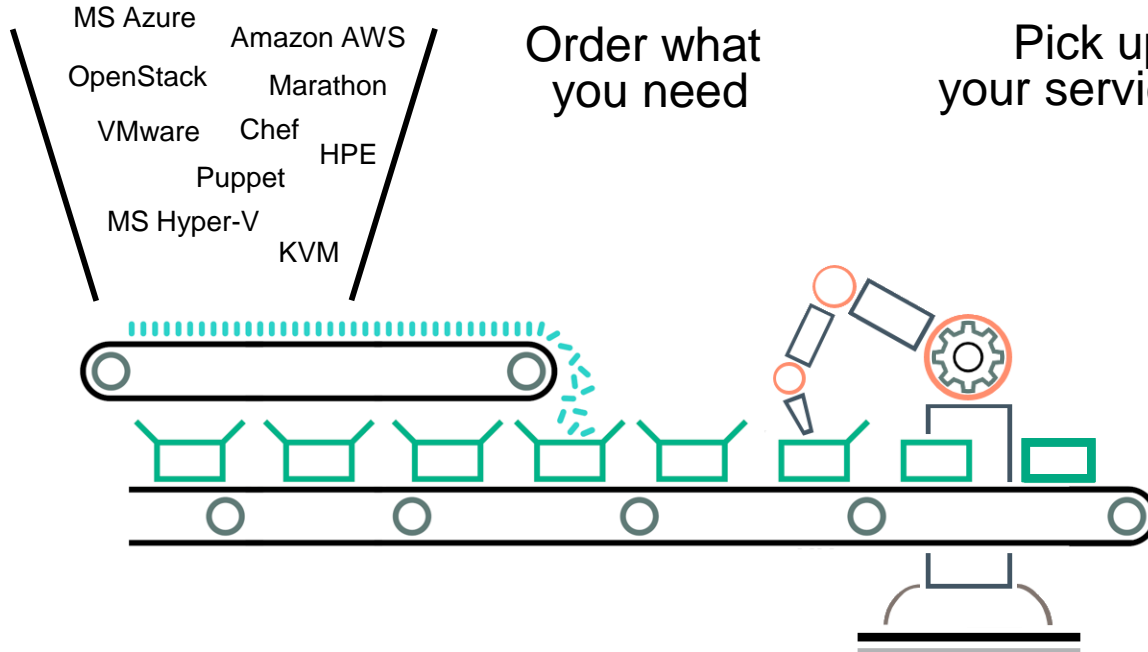
# Proven enterprise cloud management

More platforms, more control. Manage all your compute resources in one place



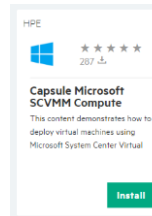
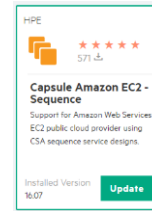
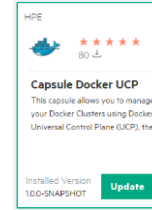
# Master of any cloud

Design your services using any cloud, any environment, any technology



Order what  
you need

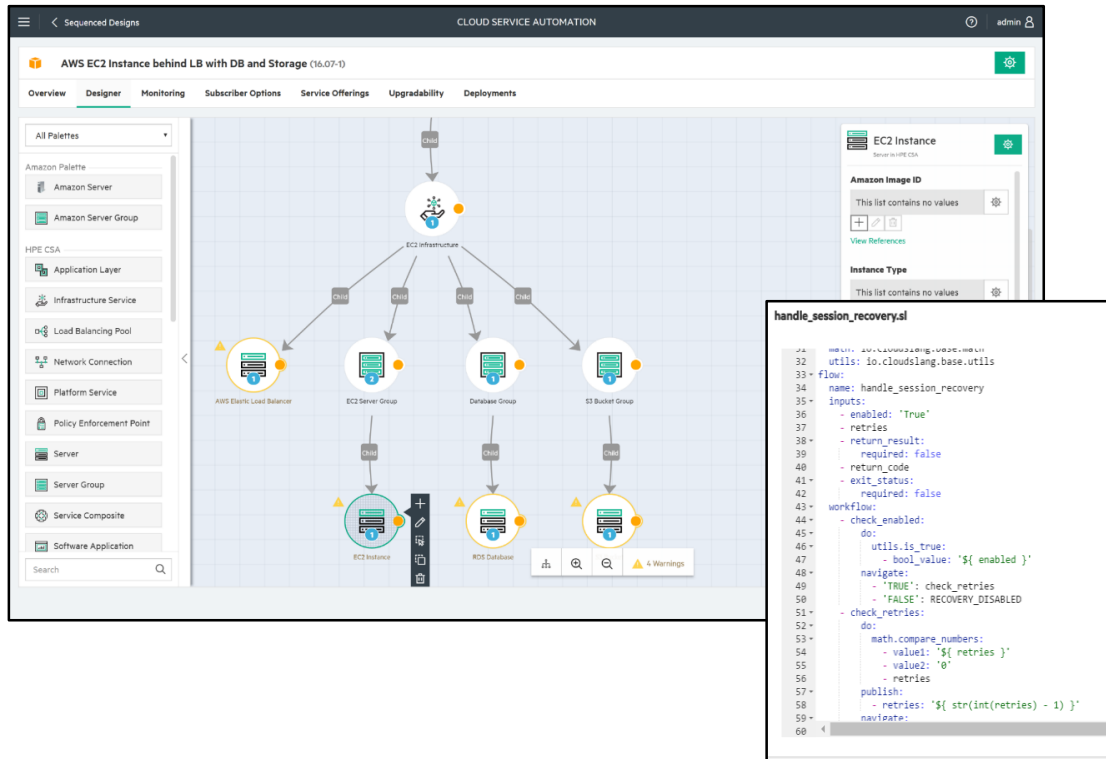
Pick up  
your services!!!



# Design your service once. Deploy it anywhere

## Cloud-agnostic service designs

- Dynamic options including testing and versioning
- Design and port full-stack, multi-tier applications
- Supports microservices and containers within service designs
- New designer for flow authoring with CloudSlang





# Make container adoption easy for your organization

## Native container support

### Multi-vendor container support

- Marathon / Mesos, Docker, Kubernetes
- Deploy and scale container hosts
- Security patching & ongoing compliance

### Hybrid applications

- Application designs can include containers **and** traditional components

### Container-based application scaling

- Scaling spans across container vendors **and** across different cloud environments

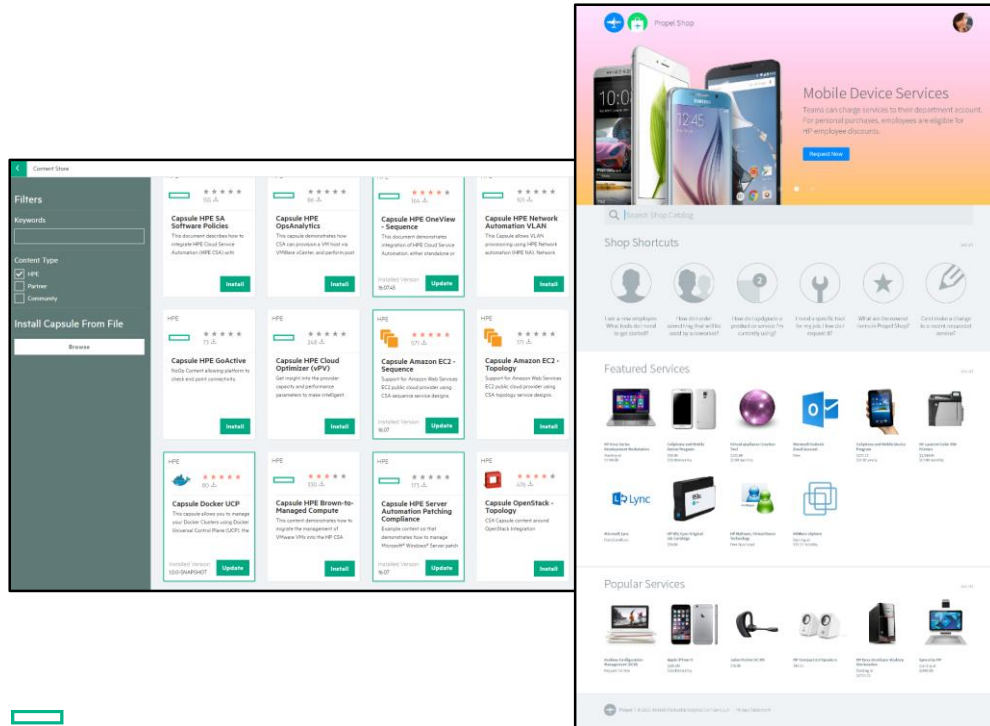
The image displays the Aerospace Cloud Service Portal interface, which provides a centralized view of various container services and their pricing. The main dashboard includes a search bar and a 'Browse Catalog' link. A prominent section titled 'Container As A Service (1.0.1)' highlights platform services for hybrid deployment with Docker host and container port monitoring, marked as 'Recently Added'.

Key services and pricing details shown in the interface include:

- Deploy Docker Engine:** Create a server that can host Docker containers. Pricing options: Helion Openstack (\$0.00 and \$0.00 yearly), Amazon (\$0.00 and \$0.00 yearly), VMware (\$0.00 and \$0.00 yearly), and Azure (\$0.00 and \$0.00 yearly).
- Docker on AWS:** A deployed service with configuration details:
  - Docker Server IP address: http://52.3114.150.9000
  - Docker Server Name: 5458202707b603
  - httpd link: http://52.3114.150.40412
  - owndcloud link: http://52.3114.150.39927
- Capsule Docker Cloud:** Managing your Docker containers in a multi-cloud environment using Cloud Service Automation. Docker. Installed Version: 1.0.0-SNAPSHOT. Update button.
- Capsule Mesosphere DC/OS:** Mesosphere Enterprise DC/OS elastically runs containers and data services. Proven in. Installed Version: 2.0.0.000-SNAPSHOT. Update button.
- Capsule Kubernetes:** Kubernetes is a powerful system, developed by Google, for managing containerized applications in a. Community rating: 11 stars. Install button.

# Service variations: Because 'One Size' does not fit all

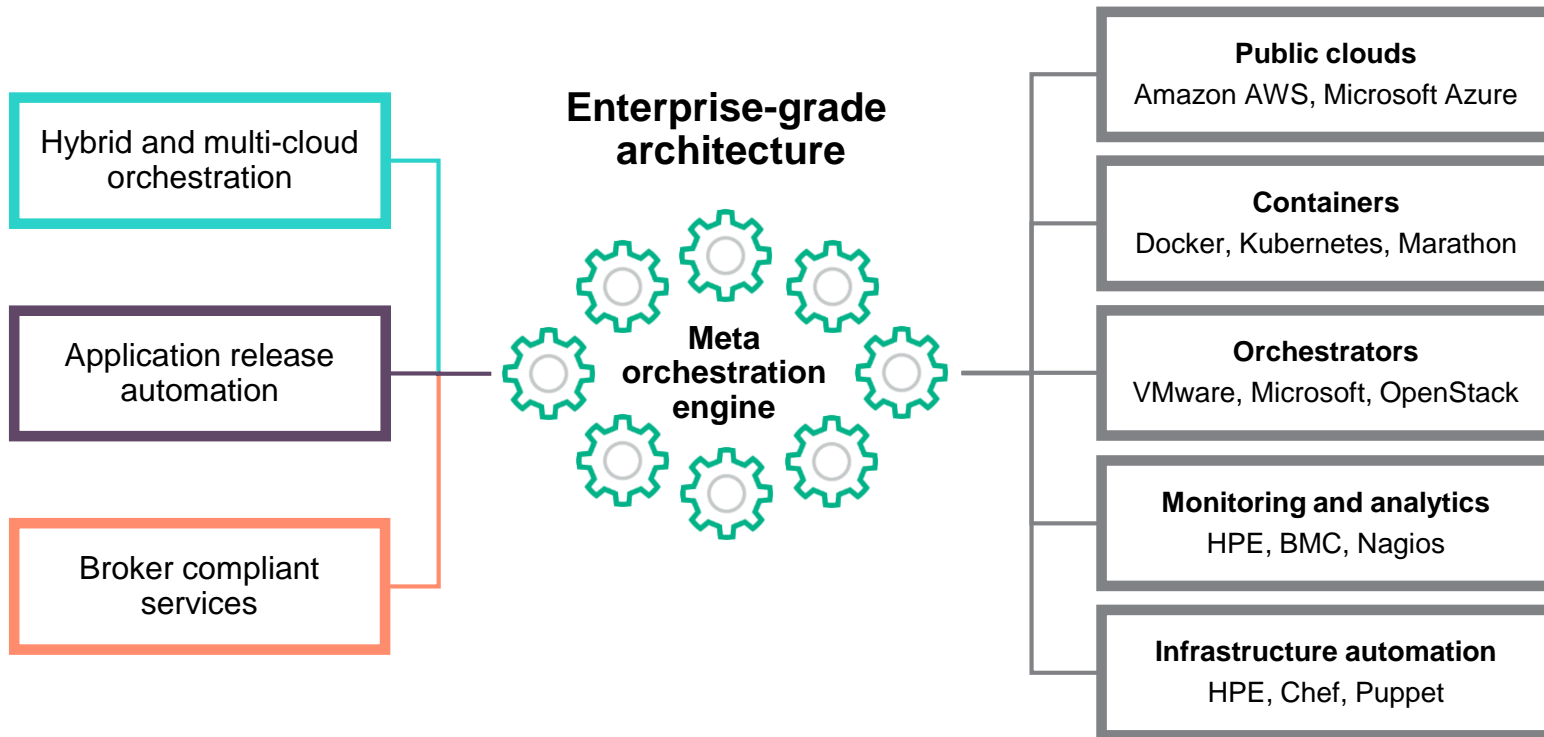
Attribute-based cloud service portal simplifies your catalog



- Attribute-based catalog enables services with variations:
  - OS, platforms, hypervisor, etc
- No incremental development needed to update
- Administrators can change attributes and pricing

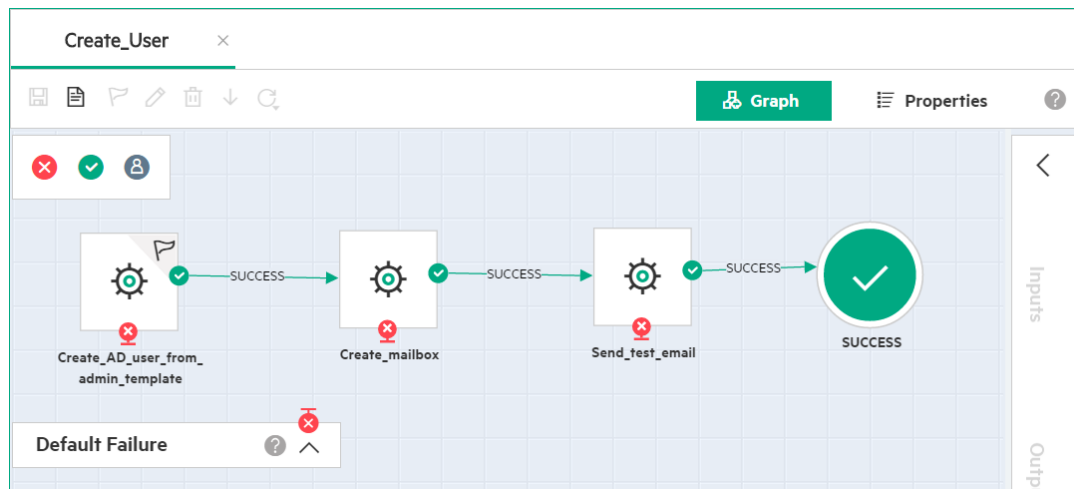
# Proven orchestrator of orchestrators

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



# Graphical drag and drop orchestration design

No coding required but you can YAML if you want to...



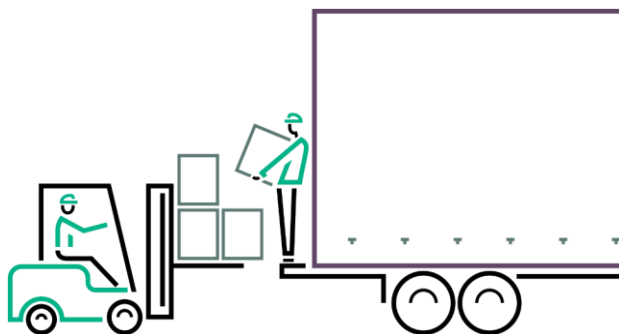
- Online and offline authoring with GitHub integration
- Extensive OOB content and open, documented APIs

# “HPE OO is often the standard against which ITPA\* products are compared.”

Gartner, Inc. “Market Guide for IT Process Automation”  
by Robert Naegle, March 4, 2016

\* IT Process Automation

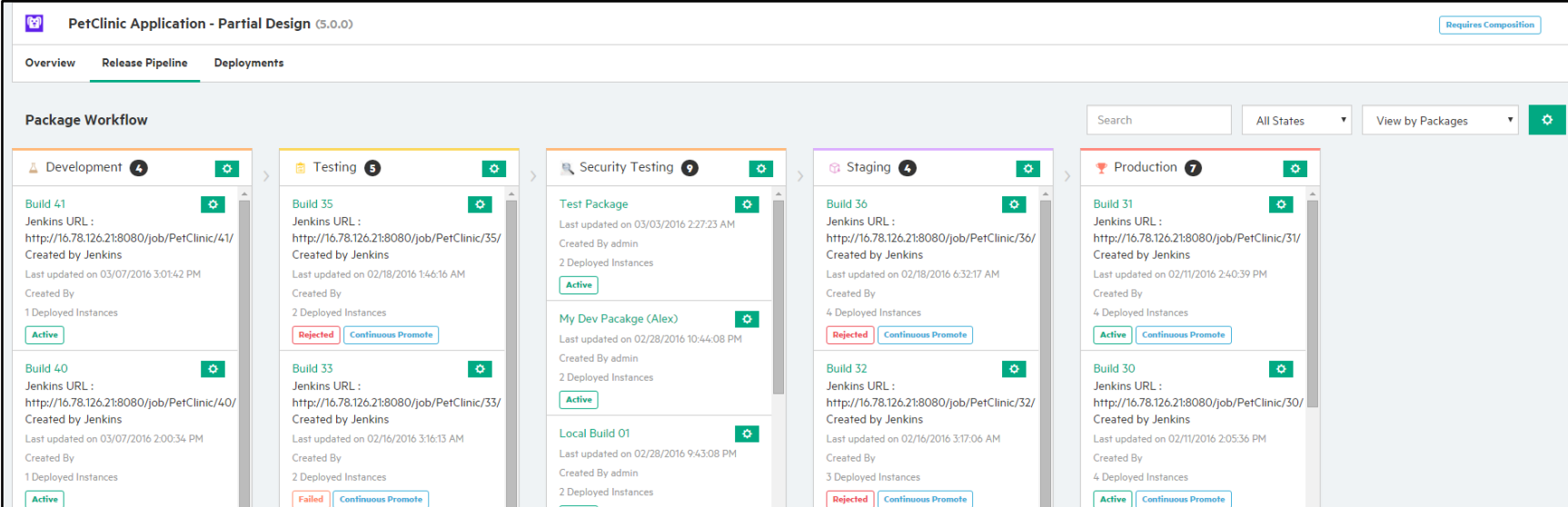
# DevOps-ready software factory with automated stage gates



- Leverage your existing orchestration workflows
- Design-free deployments for simple applications
- Perform continuous testing directly from your release pipeline

# Accelerate Ops to the speed of Dev

## Automated stage gates for continuous delivery



The screenshot displays the Jenkins Pipeline interface for the 'PetClinic Application - Partial Design (5.0.0)'. The 'Release Pipeline' tab is selected, showing a 'Package Workflow' with five stages: Development, Testing, Security Testing, Staging, and Production. Each stage contains build information and deployment status.

Stage	Build	Jenkins URL	Last updated	Created By	Deployed Instances	Status
Development	Build 41	http://16.78.126.21:8080/job/PetClinic/41/	03/07/2016 3:01:42 PM	Jenkins	1	Active
	Build 40	http://16.78.126.21:8080/job/PetClinic/40/	03/07/2016 2:00:34 PM	Jenkins	1	Active
Testing	Build 35	http://16.78.126.21:8080/job/PetClinic/35/	02/18/2016 1:46:16 AM	Jenkins	2	Rejected
	Build 33	http://16.78.126.21:8080/job/PetClinic/33/	02/16/2016 3:16:13 AM	Jenkins	2	Failed
Security Testing	Test Package		03/03/2016 2:27:23 AM	admin	2	Active
	My Dev Package (Alex)		02/28/2016 10:44:08 PM	admin	2	Active
Staging	Build 36	http://16.78.126.21:8080/job/PetClinic/36/	02/18/2016 6:32:17 AM	Jenkins	4	Rejected
	Build 32	http://16.78.126.21:8080/job/PetClinic/32/	02/16/2016 3:17:06 AM	Jenkins	3	Rejected
Production	Build 31	http://16.78.126.21:8080/job/PetClinic/31/	02/11/2016 2:40:39 PM	Jenkins	4	Active
	Build 30	http://16.78.126.21:8080/job/PetClinic/30/	02/11/2016 2:05:36 PM	Jenkins	4	Active

- Visibility into your release pipeline
- Run any script as a release gate action

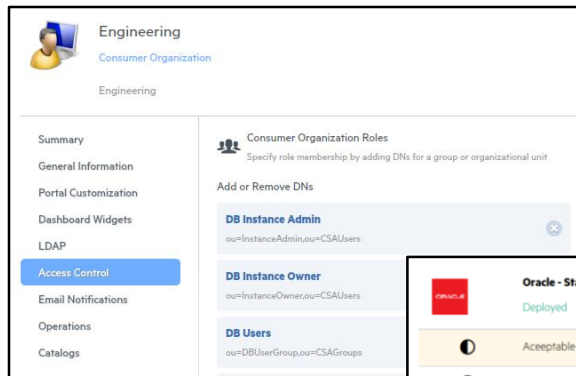


# Provide anything as a service

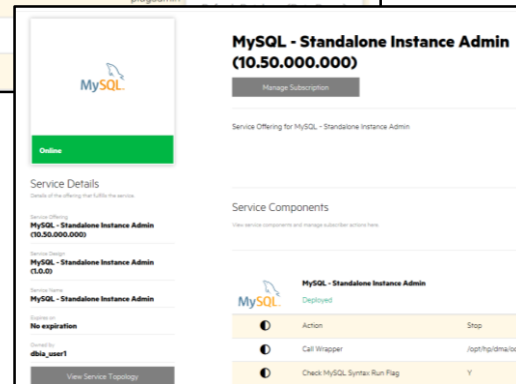
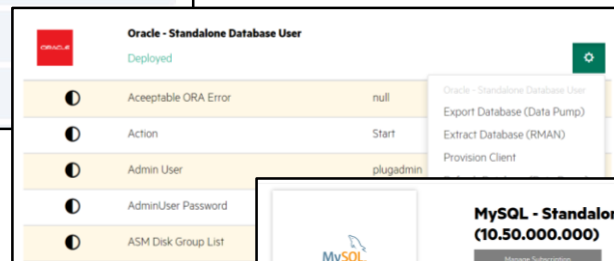
DevOps-ready for XaaS

**Deploy and manage  
any platform,  
database,  
middleware or  
application**

- To any environment (dev, test, prod, etc.)
- In any cloud



Database and  
middleware components  
within your service designs



# One source for your compliance information

## Service-level compliance automation... *Stop the insanity*

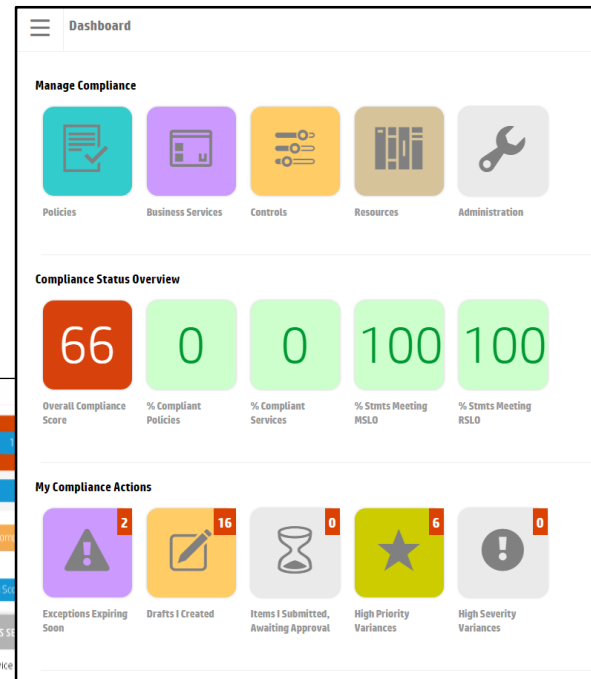
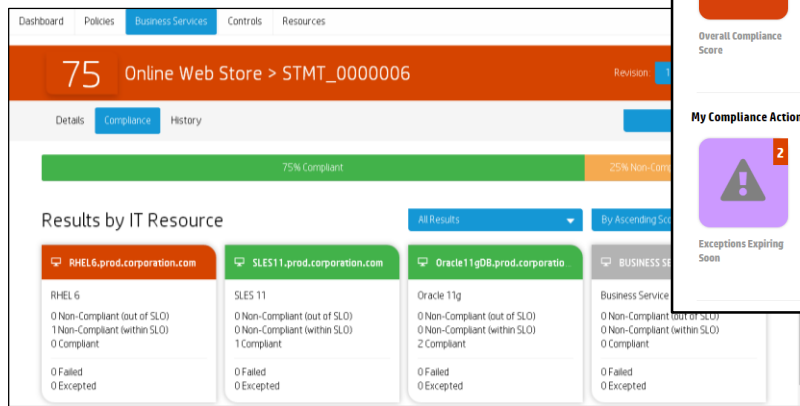
- Automated compliance and remediation at the service level
- Measure compliance across resource types
- Catalog services linked to policies
  - Compliance begins with deployment

### You set it...

- Select policies and define maintenance windows

### And forget it (We do the rest)

- Determine which rules to run
- For which resource
- At what time



# Step up to *cloud freedom* with HPE Hybrid Cloud Management

## Master of any cloud



Heterogeneous hybrid  
and multi-cloud management



Proven, end-to-end  
enterprise orchestration



Native container and  
microservice support

## Ops at the speed of Dev



Automated stage gates



Anything as a service

## Broker



Service-level  
compliance

## One solution.

Complete cloud, orchestration,  
application release and compliance  
with no need for 3<sup>rd</sup> party bolt-on options

# Polling question

If we consider our three use cases as a maturity model, where would you place your organization?

# Business freedom comes from cloud freedom

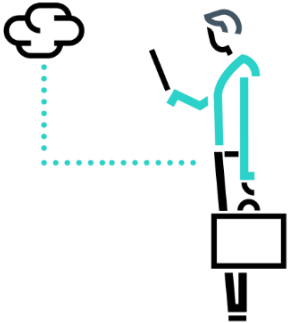
## HPE Hybrid Cloud Management



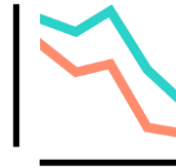
- Faster, more efficient IT service delivery meets business requirements
- Streamlined user interactions with IT



- Accelerated time to market for application innovation



- Effectively support and govern LOB IT external services



- Decreased risk associated with non-compliant services



# Customer outcomes

# IDC Survey of HPE cloud customers



Multi-customer study

89%

**Less time** to meet an IT resource request<sup>1</sup>

95%

**Less time** to satisfy development resource requests<sup>1</sup>

59%

**Higher productivity** for service fulfillment teams<sup>1</sup>



# IT service provider speeds migration of SMEs to the cloud

**COMLINE**AG

## Challenge

- Build automated hybrid cloud architecture to deliver IT services to SMEs throughout Germany from an advanced datacentre

## Solution

- HPE Cloud Service Automation
- HPE Operations Orchestration
- HPE Helion CloudSystem
- HPE 3PAR StoreServ Disk Storage System

**80%** reduction in service delivery times

Employee productivity up **80%**

**<1 yr** return on investment

# Global retail customer success

Improved quality, better integration within development and testing

## Challenge

- Too many manual steps in the deployment process
- Lack of quality in the deployment process, every deployment had a different end result
- Deployment was taking too long



Application release preparation  
decreased from

**3 mo to 20 min**

Time to deploy applications  
decreased from

**5 hrs to 3 min**

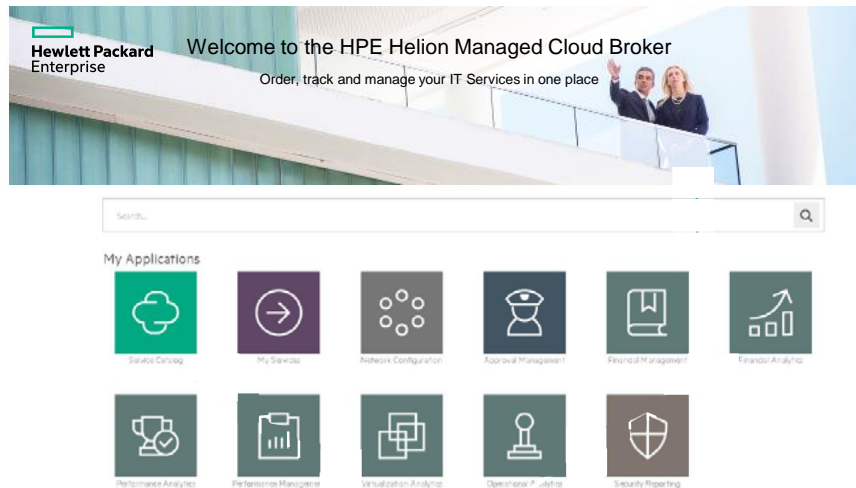
Now multiple releases/day

Initial release success  
increased from

**0% to 100%**

# HPE Enterprise Services

Visibility and control of cloud consumption for multi-tenant customers



## Challenge

- Clients required different cloud and IT resources, all requiring significant manual effort to implement
- Many clients wanted *similar but not identical* cloud services

## Solution

Created **1** master portal **from many**

- Attribute-based, enterprise-grade catalog service
- Enables services with variations:  
i.e. OS, platform, hypervisor
- No development needed to update



# 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

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

# For more information...

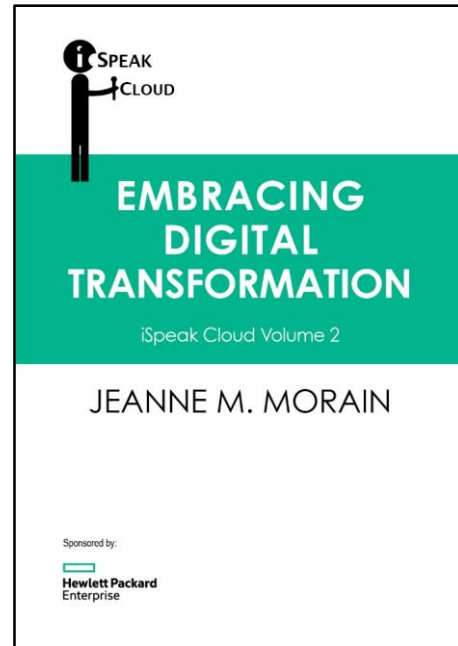
## Learn more

- HPE 'Grounded in the Cloud' blog [hpe.com/blog/cloud](https://hpe.com/blog/cloud)
- HPE Hybrid Cloud Management Software  
[hpe.com/software/hybridcloud](https://hpe.com/software/hybridcloud)

## Free digital transformation and cloud ebook

iSpeak Cloud™: Embracing Digital Transformation

[tinyurl.com/hdoxun8](https://tinyurl.com/hdoxun8)



# Post Discover Summit 2017



Join HPE and Vivit for a  
Post Discover Summit  
2017

Nine Webinars in 3 days  
focusing on ADM/ITOM

[http://www.vivit-  
worldwide.org/default.asp?page=LondonSummit2017](http://www.vivit-worldwide.org/default.asp?page=LondonSummit2017)

YOUR INDEPENDENT HPE SOFTWARE USER COMMUNITY



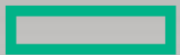


# Thank You

- Complete the short survey and opt-in for more information from Hewlett Packard Enterprise.

[www.hpe.com/software](http://www.hpe.com/software)

[www.vivit-worldwide.org](http://www.vivit-worldwide.org)



**Hewlett Packard  
Enterprise**

YOUR INDEPENDENT HPE SOFTWARE USER COMMUNITY





**Thank You**  
[vivit-worldwide.org](http://vivit-worldwide.org)

