

Cloud Next: The Next Generation of Cloud Management Software from HPE

February 2, 2017

Today's Speakers:



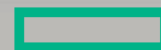
Danny Cavion

Director Cloud and Automation
Management, EMEA
Hewlett Packard Enterprise



Keri Sprinkle

Sr. Product Marketing Manager
Helion Cloud Suite
Hewlett Packard Enterprise



**Hewlett Packard
Enterprise**



v i v i t

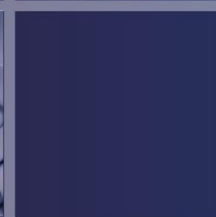
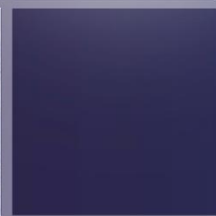
YOUR INDEPENDENT HPE SOFTWARE USER COMMUNITY

The webinar will begin shortly.

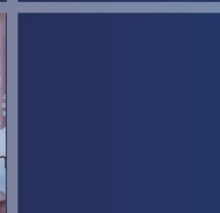
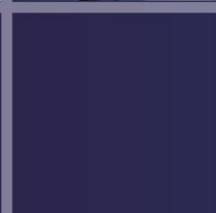
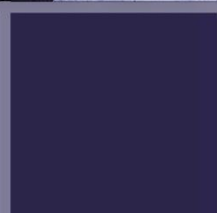


vivit

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



Welcome Members

Vivit and HPE welcome you to our Post Discover Summit 2017



<http://www.vivit-worldwide.org/default.asp?page=LondonSummit2017>



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Hosted By



Jim Copio

Manager

Whitlock Infrastructure Solutions

Vivit Carolinas LUG Leader

Vivit BSM SIG Leader

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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 collage of images and text. The central text reads 'Building the DevOps Tool Chain' and 'January 17, 2017'. Other visible text includes 'vivit', 'Discover the independent HPE software user community where you can share, collaborate, exchange, and grow', 'ADVOCACY', 'COMMUNITY', 'Solutions', 'SUCCESS', 'Vision', and 'EDUCATION'. A red arrow points to the upper right corner of the presentation pane.

Slide 2 of 27

LOGO/PICTURE

vivit

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

ADVOCACY

Building the DevOps Tool Chain
January 17, 2017

COMMUNITY

Solutions

SUCCESS

Vision

EDUCATION

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

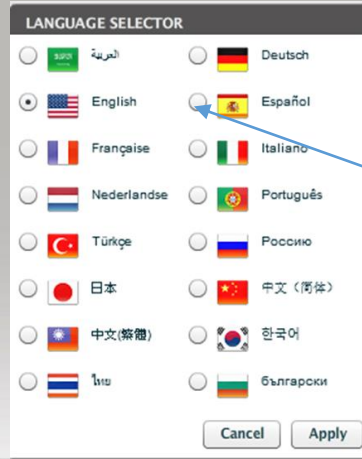
- This “LIVE” session is being recorded
- Recordings are available to all Vivit members
- To enlarge the presentation screen, click on the rectangle in the upper right hand corner of the Presentation pane



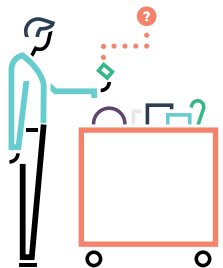
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Webinar Control Panel

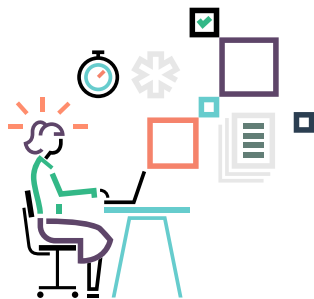
- Session Q&A:
Please type questions in the Q&A pane and click on “Ask”
- Choose the language in which you would like to ask your questions



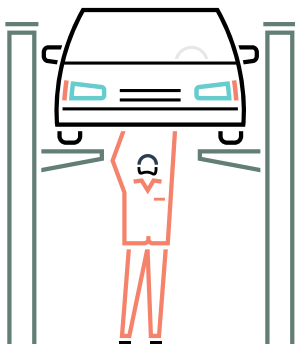
Central IT operations challenges



Complex technology and cloud stacks limit agility



Many unplanned resource requests

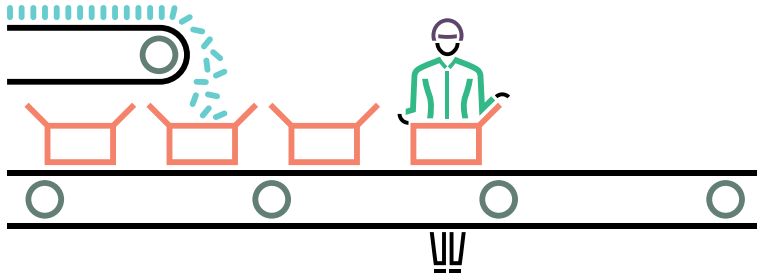


Incomplete automation, still too much manual effort



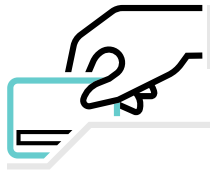
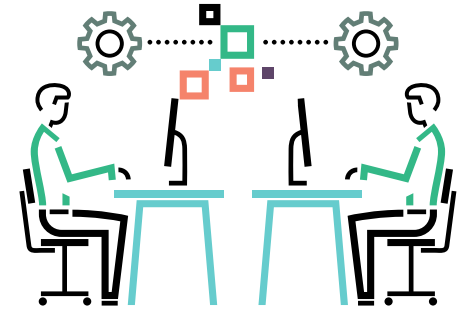
Compliance still too manual and silo oriented

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

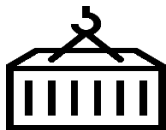


Slow Central IT response times encourages LOB users to use their budget to purchase external services

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

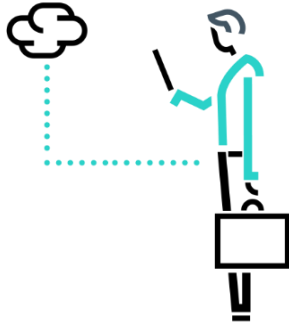
Increasing complexity and business pressures keep Ops in the crosshairs



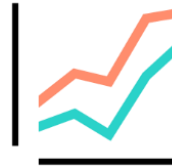
**Slow response
and
delivery times**



**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



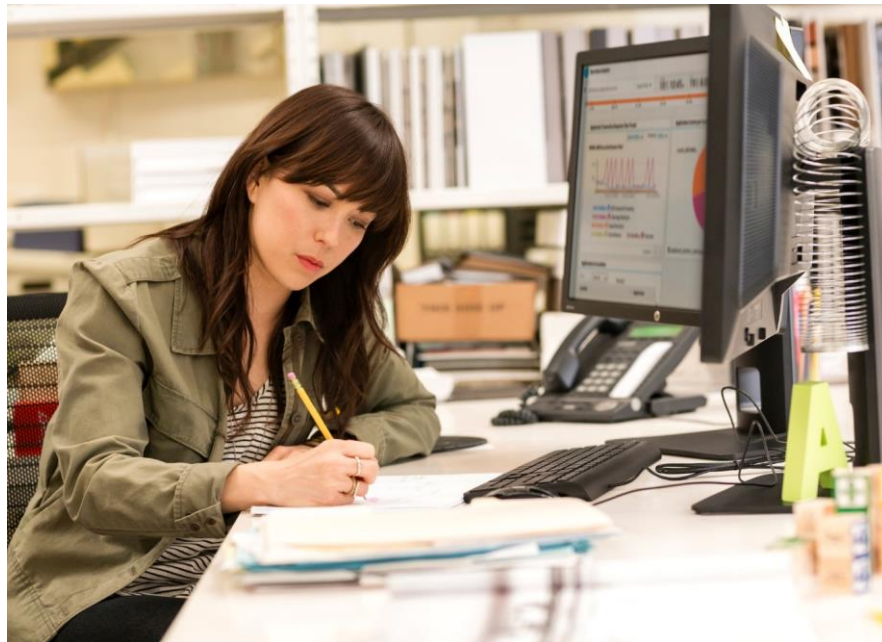
Simplified self-service consumption



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



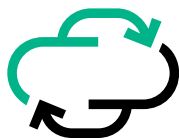
Private, managed
and public clouds



Traditional and
modern apps

Enable all your business choices

Cloud freedom + technology freedom = business freedom



Hybrid cloud orchestration

Agility improvement

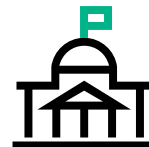
- Provision, configure and manage hybrid cloud environments
- Comprehensive IT process orchestration
- Cloud analysis and showback reporting



Application release automation+

Application innovation

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



Broker compliant services

Streamline and simplify

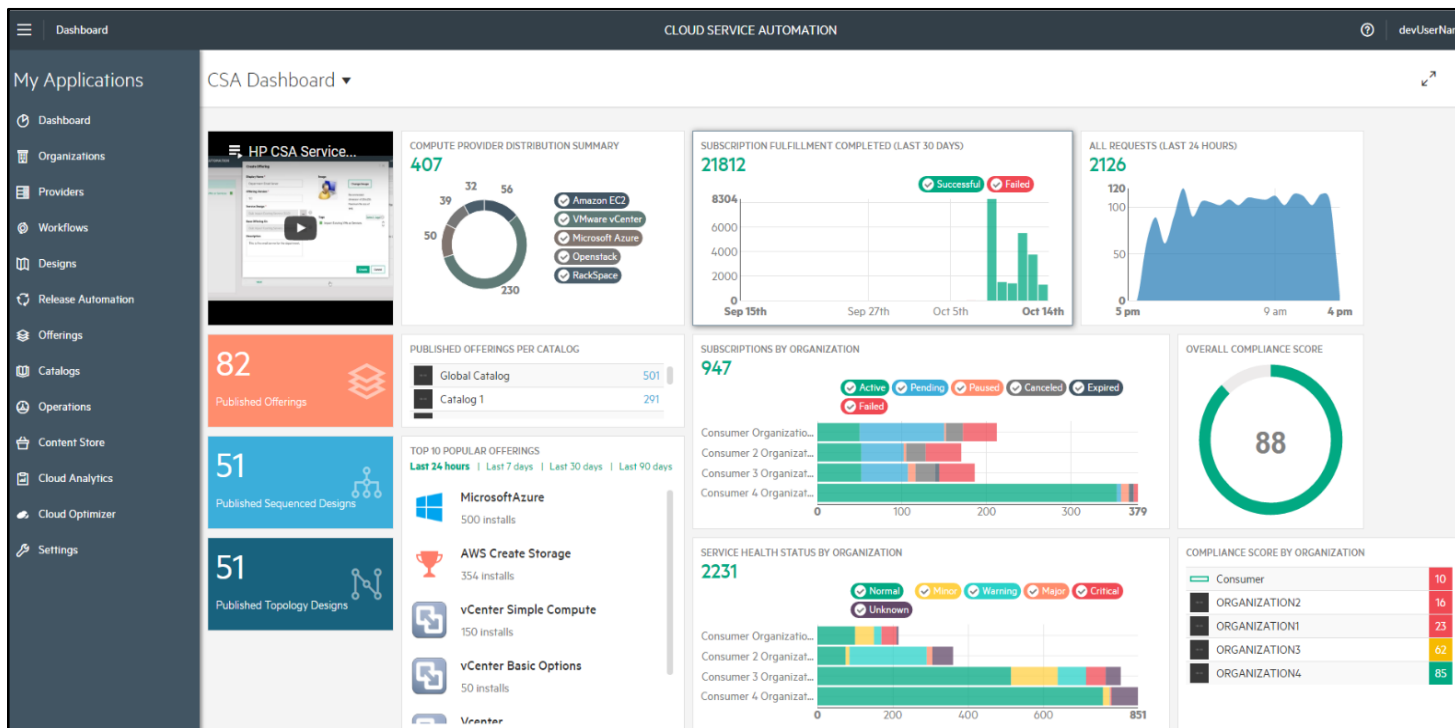
- Service-level and cloud compliance automation
- Streamlined, user-focused catalog
- Workload optimization



Advantages

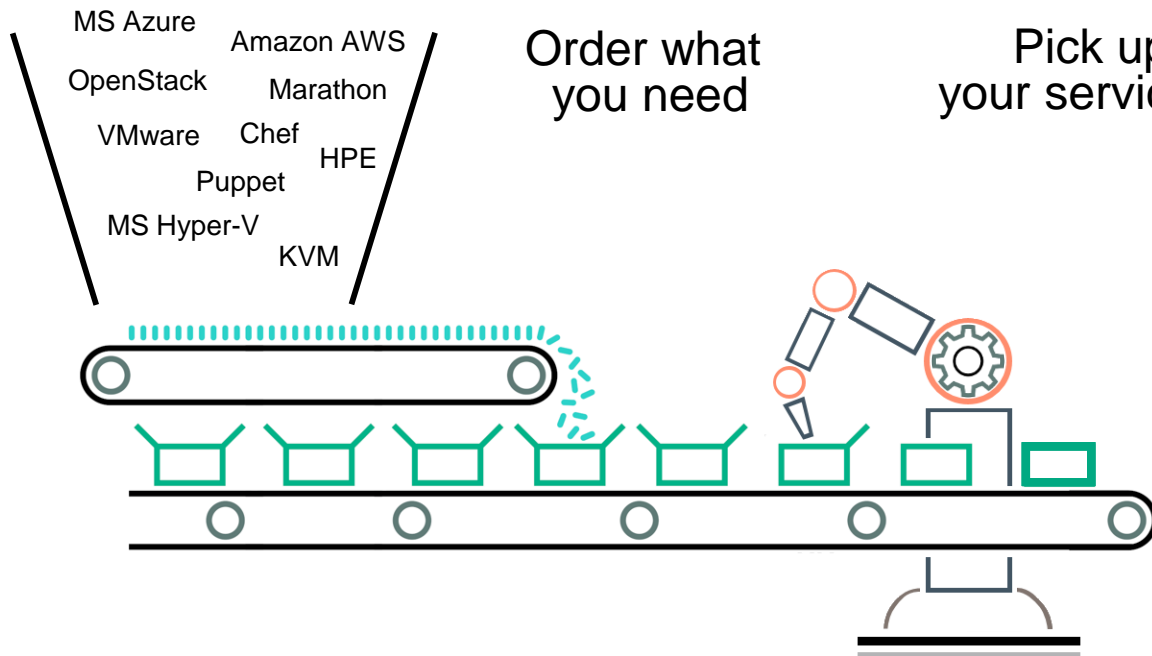
Proven enterprise cloud management

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



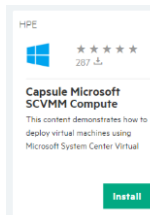
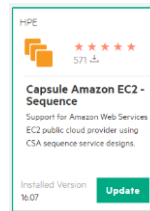
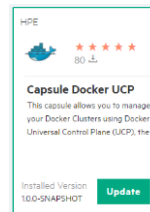
Master of any cloud

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



Order what
you need

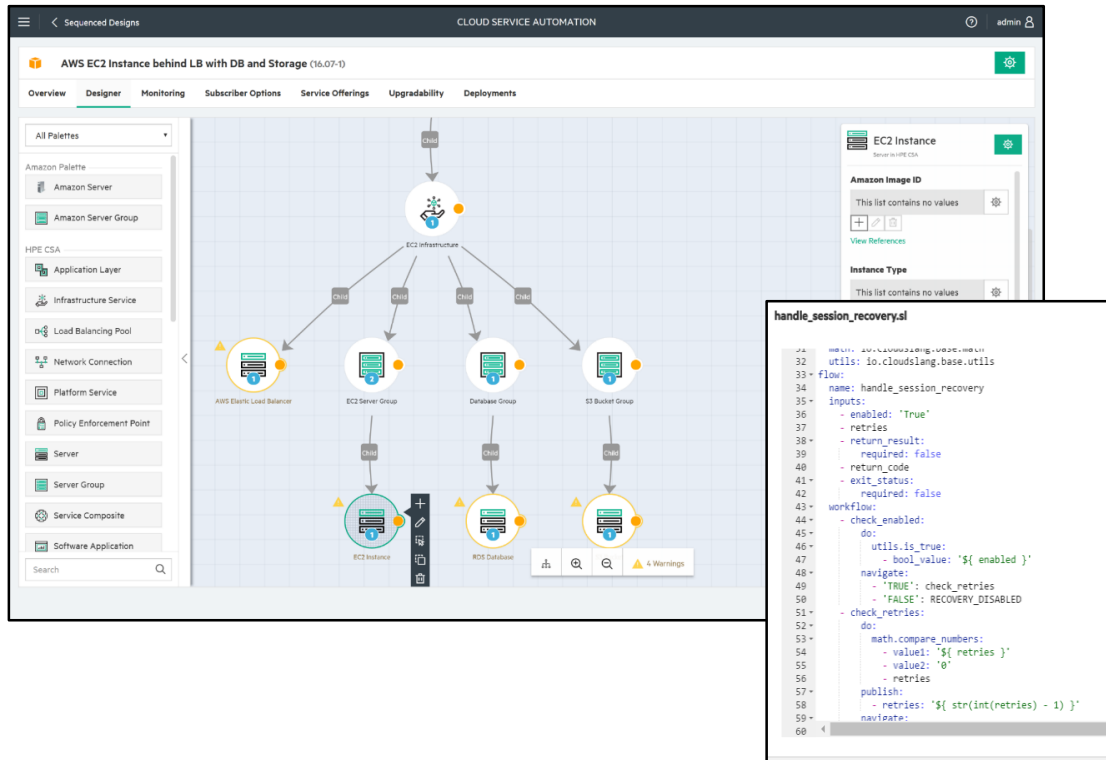
Pick up
your services!!!



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

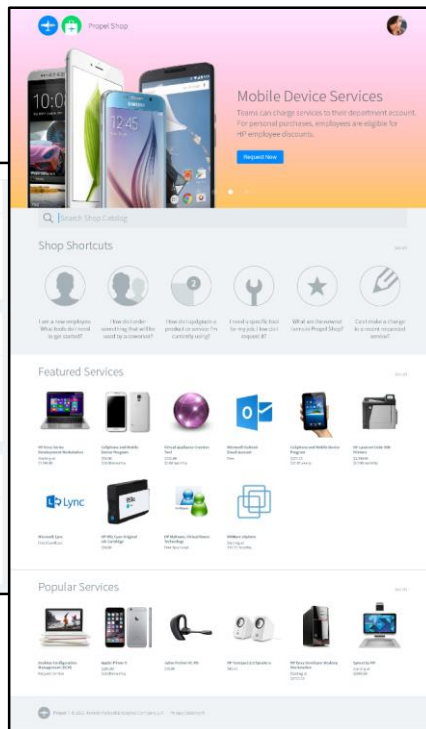
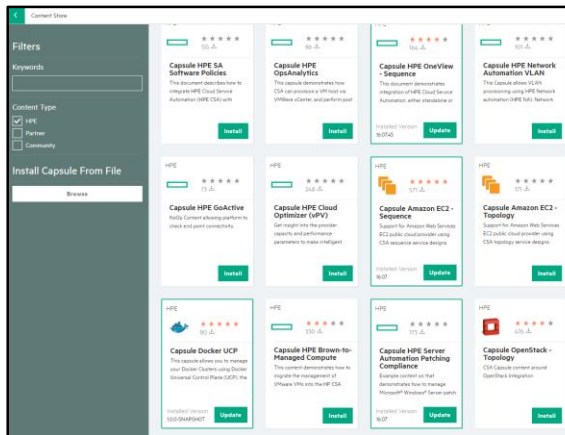
- Scaling spans across container vendors **and** across different cloud environments

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 sidebar on the right lists services with their respective pricing:

- Deploy Docker Engine**: create a server that can host docker container
 - Helion Openstack: \$ 0.00 and \$ 0.00 yearly
 - Amazon: \$ 0.00 and \$ 0.00 yearly
 - vMware: \$ 0.00 and \$ 0.00 yearly
 - Azure: \$ 0.00 and \$ 0.00 yearly
- Container As A Service (1.0.1)**: Platform Services, hybrid deployment with docker host and container port monitoring. Recently Added.
- Docker on AWS**: Deployed. Includes details for Docker Server IP address, Docker Server Name, httpd link, and owndcloud link.
- 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. 11. Install button.

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

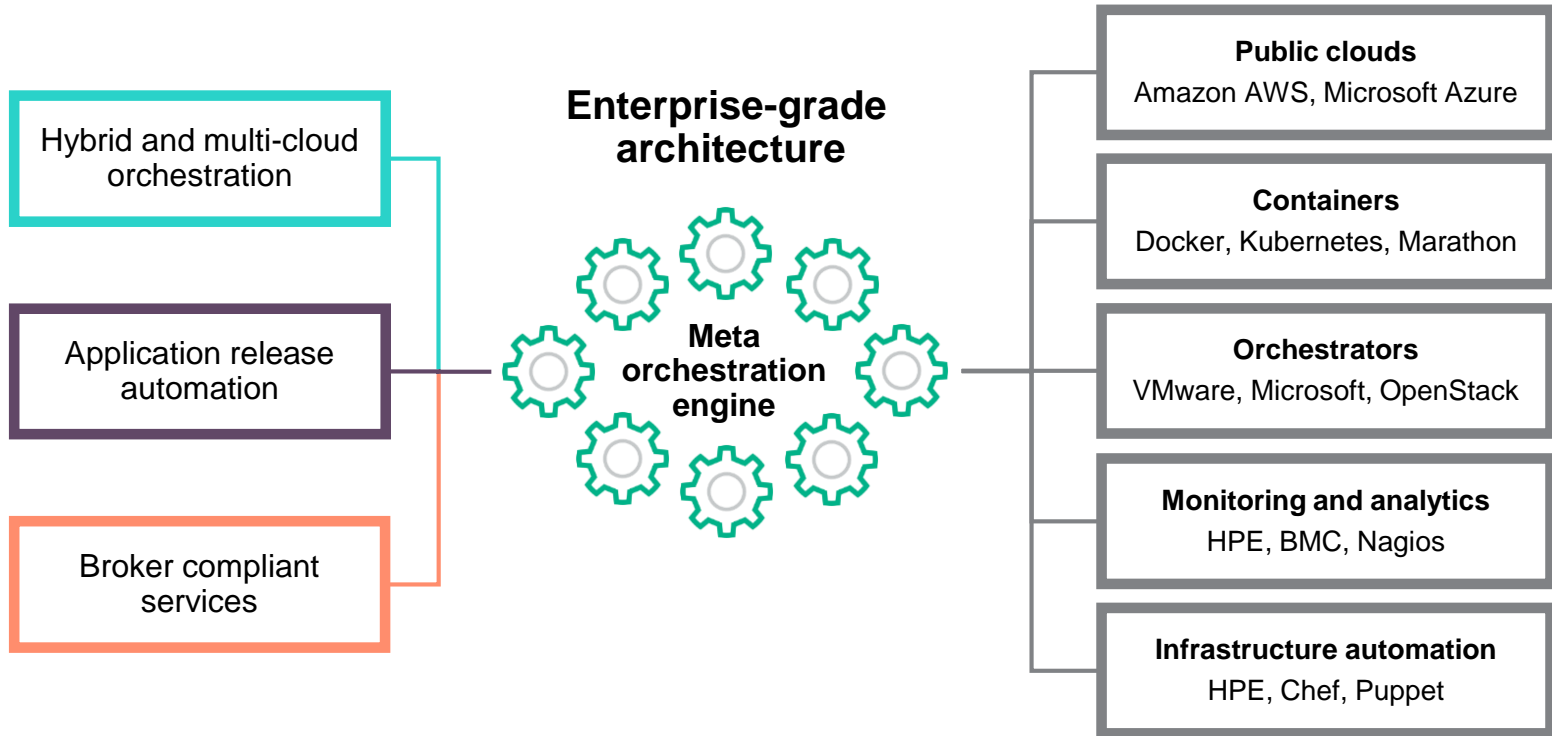
Attribute-based cloud service portal simplifies your catalog



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

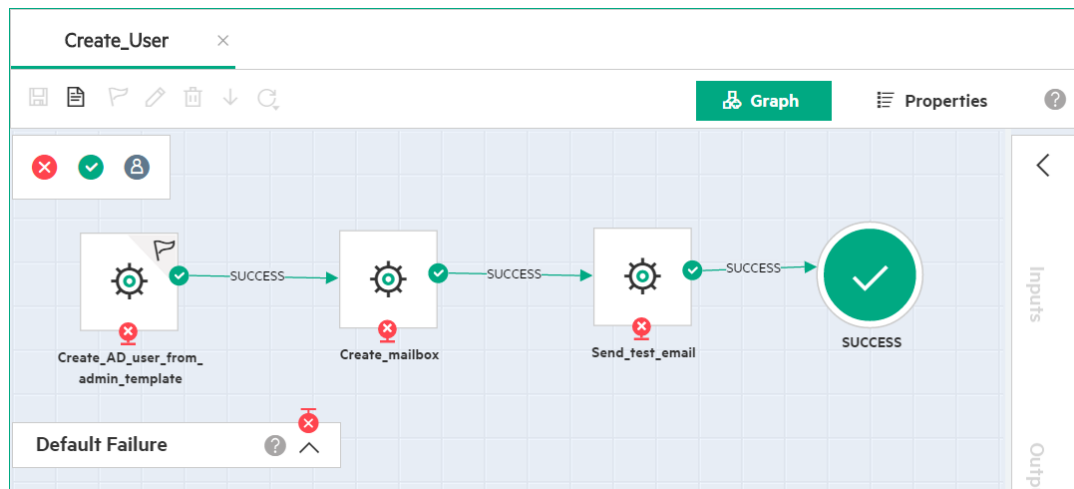
Proven orchestrator of orchestrators

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...



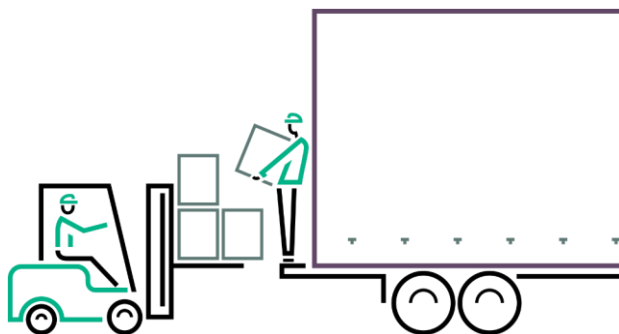
- Online and offline authoring with GitHub integration
- Extensive OOB content and open, documented APIs

“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

PetClinic Application - Partial Design (5.0.0) Requires Composition

Overview **Release Pipeline** Deployments

Package Workflow

Search All States View by Packages

Development 4

- Build 41** Active
Jenkins URL : <http://16.78.126.21:8080/job/PetClinic/41/>
Created by Jenkins
Last updated on 03/07/2016 3:01:42 PM
Created By
1 Deployed Instances
- Build 40** Active
Jenkins URL : <http://16.78.126.21:8080/job/PetClinic/40/>
Created by Jenkins
Last updated on 03/07/2016 2:00:34 PM
Created By
1 Deployed Instances

Testing 5

- Build 35** Continuous Promote
Jenkins URL : <http://16.78.126.21:8080/job/PetClinic/35/>
Created by Jenkins
Last updated on 02/18/2016 1:46:16 AM
Created By
2 Deployed Instances
- Build 33** Failed Continuous Promote
Jenkins URL : <http://16.78.126.21:8080/job/PetClinic/33/>
Created by Jenkins
Last updated on 02/16/2016 3:16:13 AM
Created By
2 Deployed Instances

Security Testing 9

- Test Package** Active
Last updated on 03/03/2016 2:27:23 AM
Created By admin
2 Deployed Instances
- My Dev Package (Alex)** Active
Last updated on 02/28/2016 10:44:08 PM
Created By admin
2 Deployed Instances
- Local Build 01** Active
Last updated on 02/28/2016 9:43:08 PM
Created By admin
2 Deployed Instances

Staging 4

- Build 36** Continuous Promote
Jenkins URL : <http://16.78.126.21:8080/job/PetClinic/36/>
Created by Jenkins
Last updated on 02/18/2016 6:32:17 AM
Created By
4 Deployed Instances
- Build 32** Rejected Continuous Promote
Jenkins URL : <http://16.78.126.21:8080/job/PetClinic/32/>
Created by Jenkins
Last updated on 02/16/2016 3:17:06 AM
Created By
3 Deployed Instances

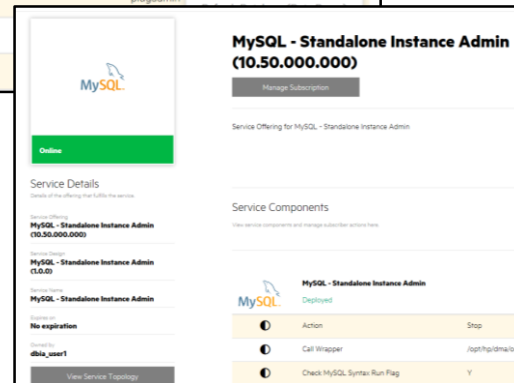
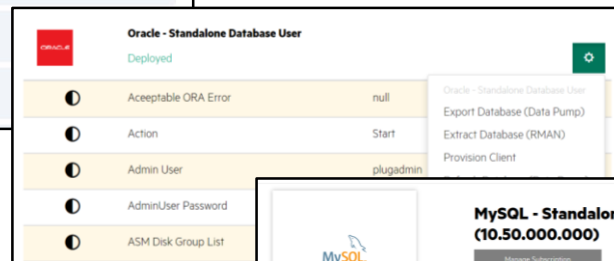
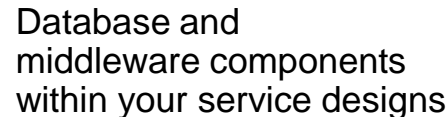
Production 7

- Build 31** Active Continuous Promote
Jenkins URL : <http://16.78.126.21:8080/job/PetClinic/31/>
Created by Jenkins
Last updated on 02/11/2016 2:40:39 PM
Created By
4 Deployed Instances
- Build 30** Active Continuous Promote
Jenkins URL : <http://16.78.126.21:8080/job/PetClinic/30/>
Created by Jenkins
Last updated on 02/11/2016 2:05:36 PM
Created By
4 Deployed Instances

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

DevOps-ready for XaaS

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



One source for your compliance information

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

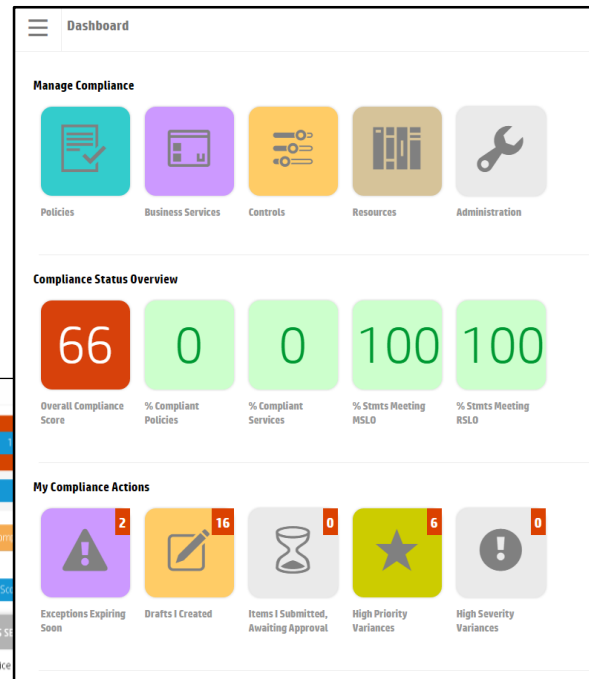
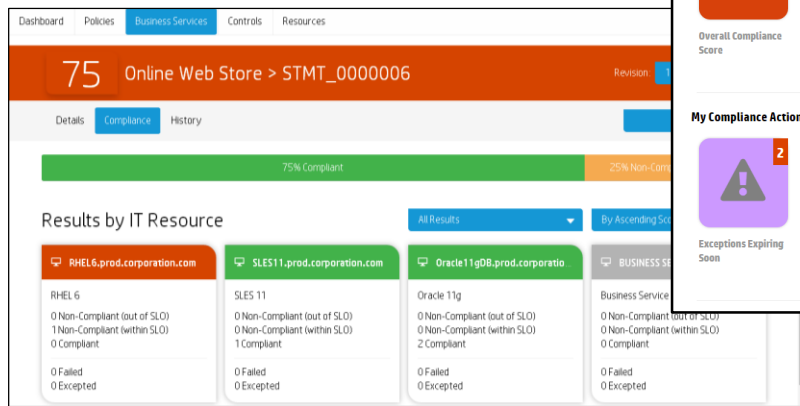
- Automated compliance and remediation at the service level
- Measure compliance across resource types
- Catalog services linked to policies
 - Compliance begins with deployment

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 3rd 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

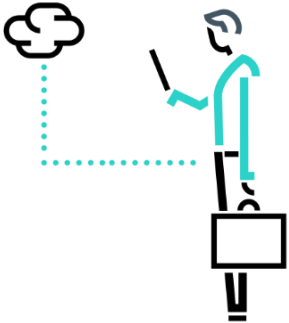
HPE Hybrid Cloud Management



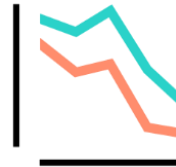
- Faster, more efficient IT service delivery meets business requirements
- Streamlined user interactions with IT



- 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 request¹

95%

Less time to satisfy development resource requests¹

59%

Higher productivity for service fulfillment teams¹

IT service provider speeds migration of SMEs to the cloud

COMLINEAG

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

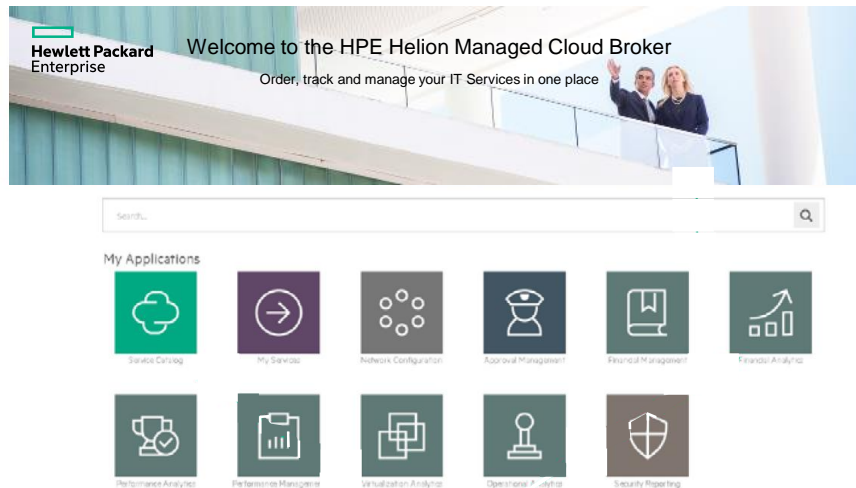
Now multiple releases/day

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...

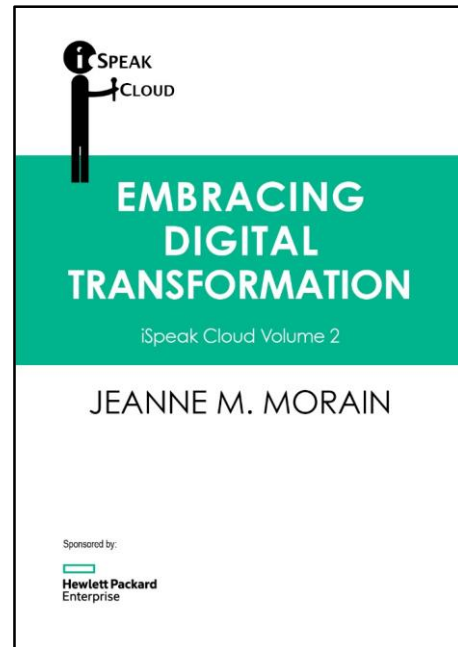
Learn more

- HPE 'Grounded in the Cloud' blog hpe.com/blog/cloud
- HPE Hybrid Cloud Management Software
hpe.com/software/hybridcloud

Free digital transformation and cloud ebook

iSpeak Cloud™: Embracing Digital Transformation

tinyurl.com/hdoxun8



Join our ITOM Post Discover Summit Webinar today...

ITOM SESSION:

[Master any cloud with Hybrid Cloud Management from HPE](#)

2 February 2017

8:00 AM - 9:00 AM EST (GMT-5:00), 14:00 - 15:00 CET (GMT+1:00), 18:30 – 19:30 IST (GMT+5:30)

Learn about the advantages that Hybrid Cloud Management can provide to you and your organization.

[REGISTER NOW!](#)

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Save the Dates: 16-19 May 2017



EMEA Software Customer Forums 2017

16-19 May 2017

Dublin

SAVE THE DATE



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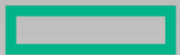
vivit

Thank You

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

www.hpe.com/software/hybridcloud

www.vivit-worldwide.org



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Thank You
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