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COMMUNITY



Managing Compliance and Risk with Data Center Automation

December 13, 2017



Hosted By

**This webinar is brought to you by the
Automation & Cloud Builders
Special Interest Group**

Led by:

Darren Blumenthal and Megan Glick

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<http://www.vivit-worldwide.org/group/CloudAutomation>

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Today's Speakers

Today's Speakers:



Darren Blumenthal
Alliance Solution Architect
Accenture



Megan Glick
Product Marketing Manager
Micro Focus



Joe deBalquiere
Product Manager
Micro Focus

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Webinar Housekeeping



A screenshot of a webinar interface. The main presentation pane shows a slide titled "Building the DevOps Tool Chain" dated "January 17, 2017". The slide features the Vivit logo and the text "Discover the independent HPE software user community where you can share, collaborate, exchange, and grow". The slide is divided into sections with images and text: "ADVOACACY" (sic) with a lightbulb, "COMMUNITY" with people shaking hands, "Solutions", "EDUCATION" with a crowd, and "SUCCESS" with gears. On the left, there are side panels for "LOGO/PICTURE" (Vivit logo), "Q&A" (with "Ask a question" text), and "DOWNLOAD FILES" (with a table showing "No file Found"). At the bottom, a status bar displays "Dial-In #: VolP or 415-926-7795 or International Numbers", "Conference ID: 0866-2702", and "User ID: 280895".

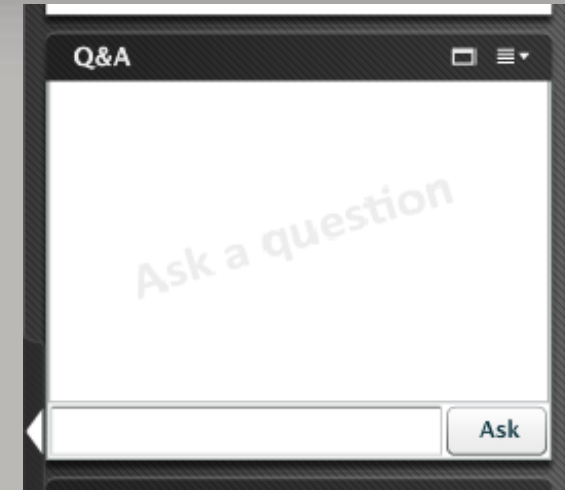
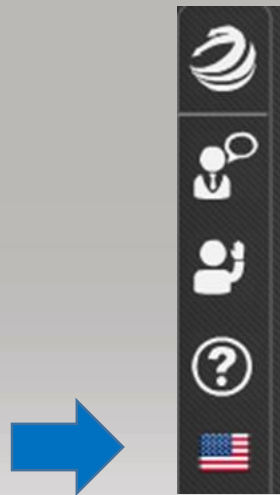
- This “LIVE” session is being recorded
- Recordings are available to all Vivit members
- To enlarge the presentation screen, click on the rectangle in the upper right hand corner of the Presentation pane

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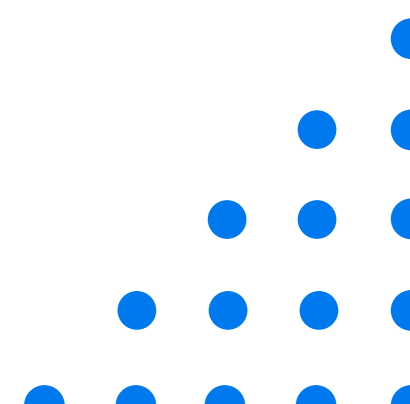


Webinar Control Panel

- 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

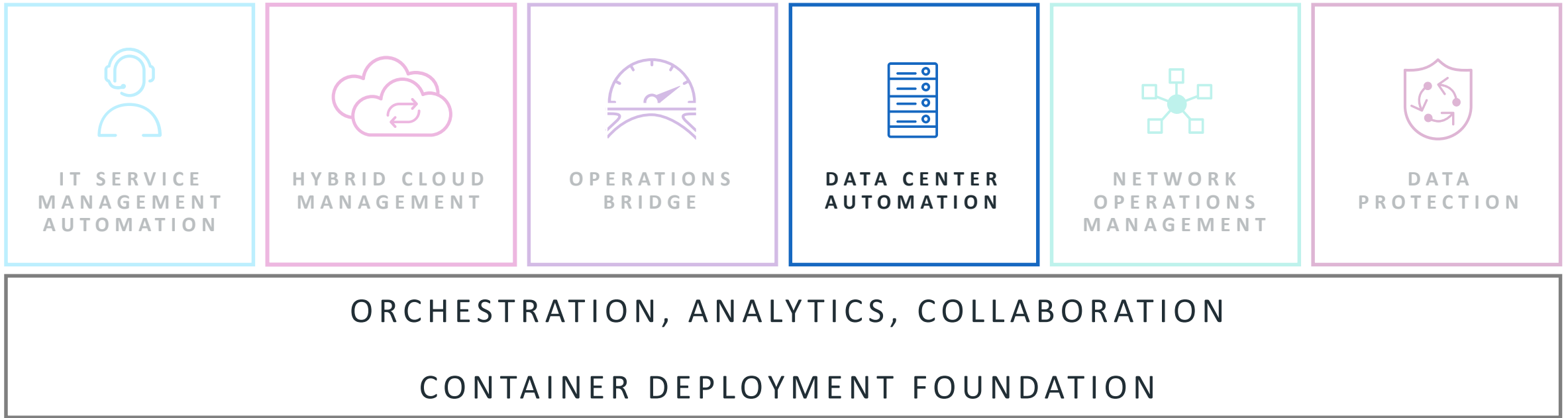


Recap: Suites and Container Deployment Foundation



IT Operations Management

Easy to consume, deploy, and integrate



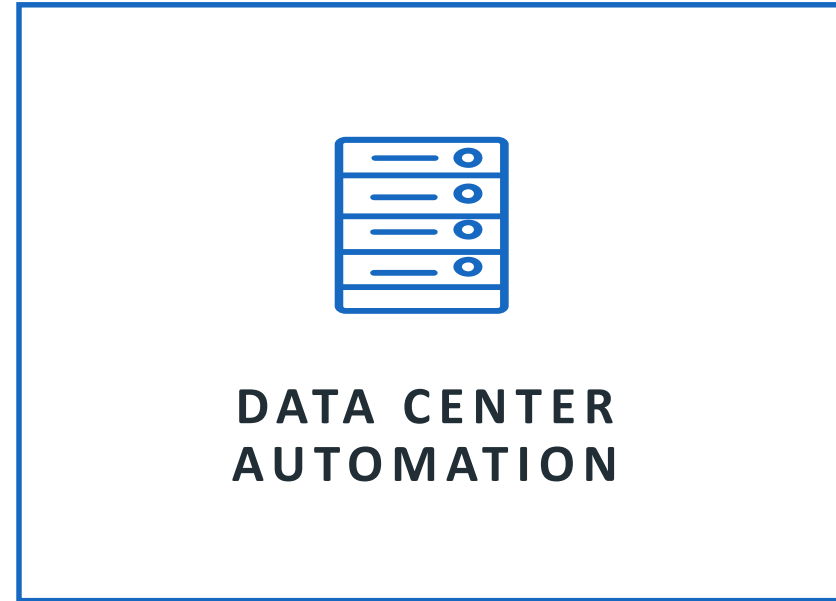
From Point Products to Suites

Server Automation

Operations Orchestration

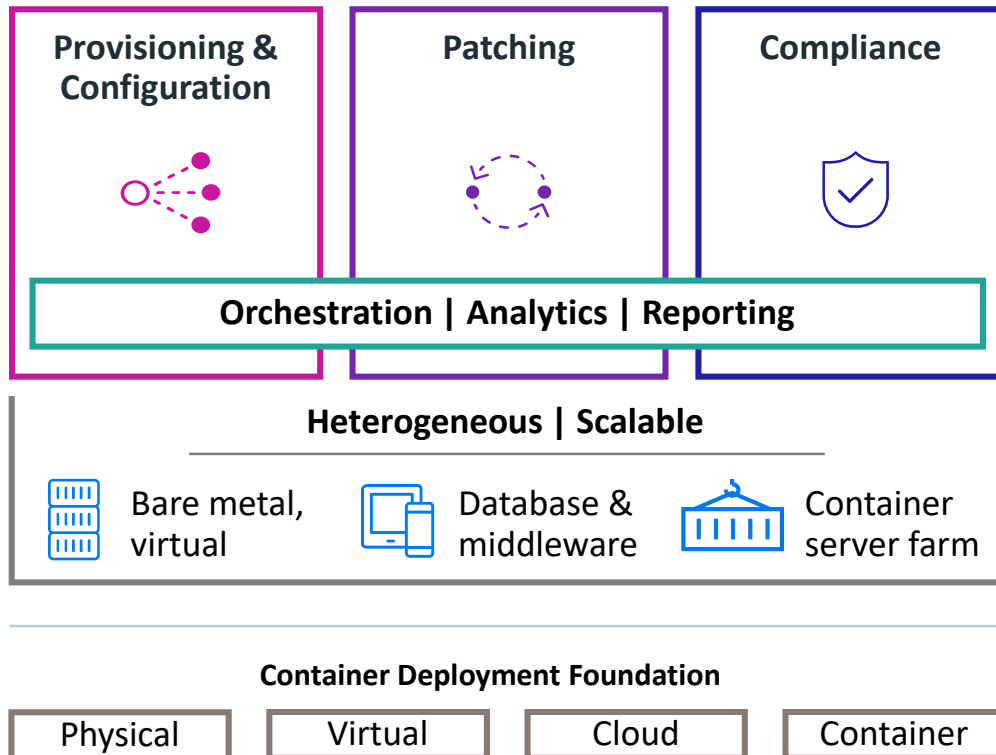
Database and Middleware Automation

IT Operations Compliance



Micro Focus Data Center Automation

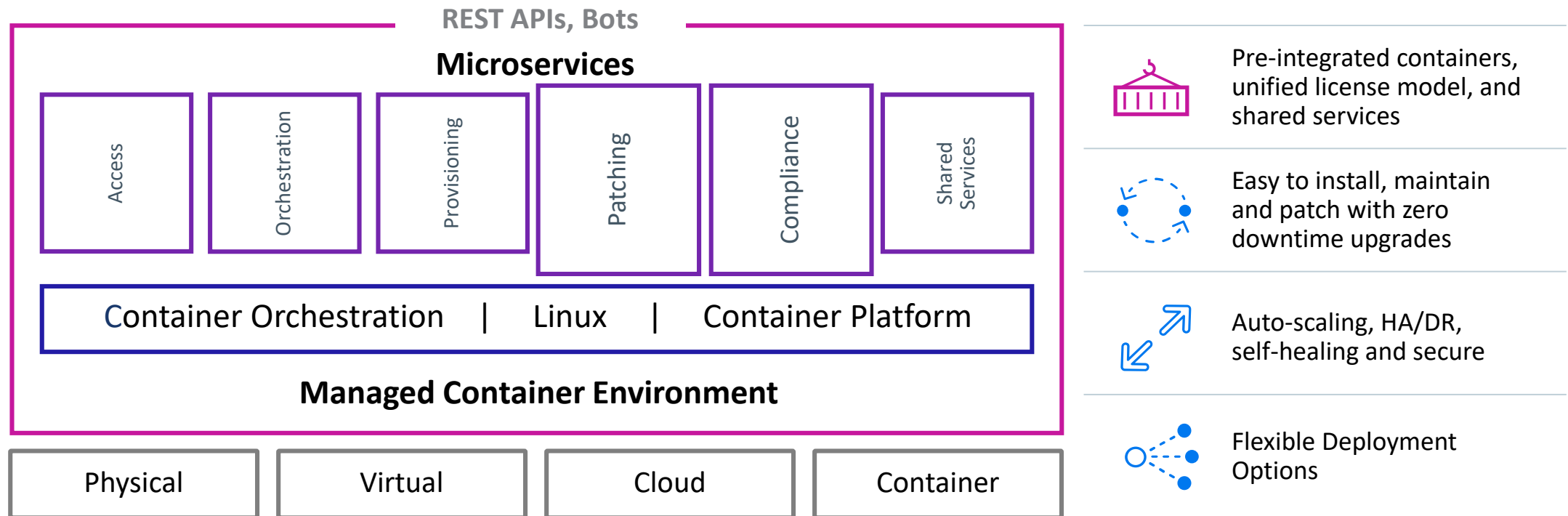
Compliance micro service is offered as part of the Suite



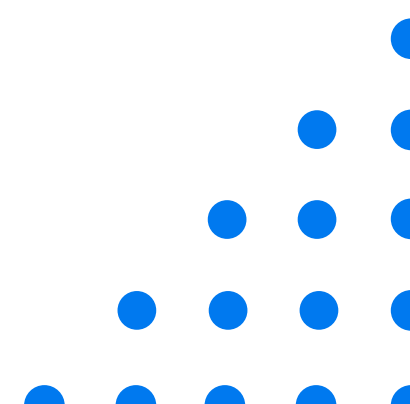
- Heterogeneous provisioning and patching at scale
- Integrated compliance and closed-loop remediation
 - Across heterogeneous OS, DB, and MW
 - Market leading out-of-the-box compliance and remediation content
- Industry's leading open API orchestrator for seamless data center integration
- New suite container deployment option

New Container Deployment Foundation accelerates time-to-value with easy installation and horizontal scale-out

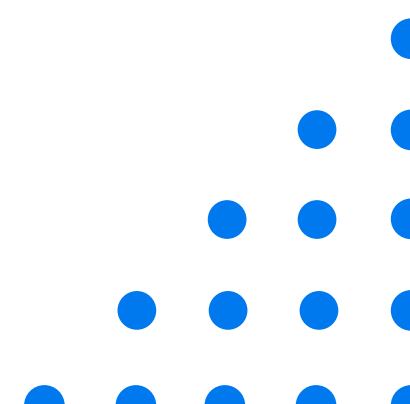
Container Deployment Foundation



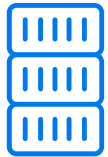
Managing Compliance and Risk with DCA: Demo



Managing Compliance and Risk with DCA



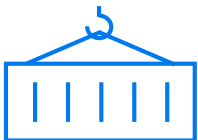
One platform for heterogeneous resources



Bare metal, virtual server



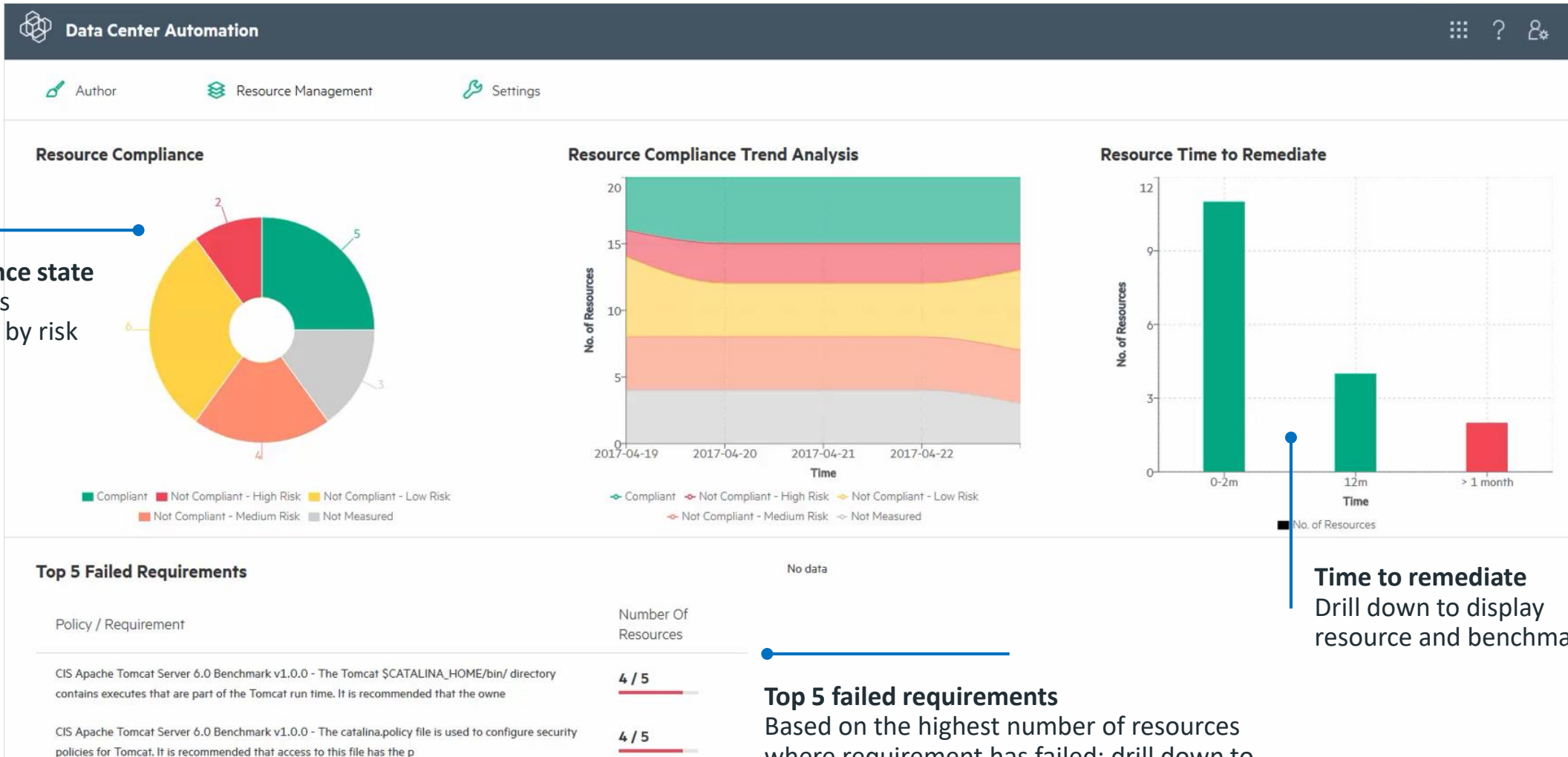
Database and middleware



Container server farm



Dashboards for visibility



Compliance state
Resources
classified by risk

Time to remediate
Drill down to display
resource and benchmark

Top 5 failed requirements
Based on the highest number of resources
where requirement has failed; drill down to
display list of resources

Audit readiness with pre-formatted, easy-to-tailor reports

Benchmark Summary by Resource

Run this report to see the compliance status of Benchmark

* Select a date, and benchmarks

* Optionally, filter the results on resource group

Results show a count and percent of resources by compliance status. Results depend on daily data and use only the last scan of the day.

Report Executed Date

Benchmark Name	Last Scan Date	No of Resources	No of Compliant Resources
CIS Apache HTTP Server 2.4 v1.2.0	03-29-2017	1	0
CIS Docker 1.11.0 Benchmark	04-03-2017	2	0
CIS ORACLE Database 12 Benchmark v1.2.0	03-30-2017	1	0
CIS ORACLE Database 12 Benchmark v1.2.0	03-31-2017	1	0
CIS Ubuntu 12.04 LTS Server Benchmark v1.0.0	03-29-2017	1	0

Compliance summary by benchmark (e.g. CIS) for each resource

Compliance history—scan or remediation by benchmark (e.g. CIS) by resource, and job status

Compliance Job History

Run this report to see the history of actions related to all the Benchmarks.

-Optionally, filter the result on audit job type

Results show Job Details all the Benchmarks is attached along with the Number of Resources and Job Execution Time.

Report Executed Date

Job Start Time	Job Type	Policy Name	Benchmark Name	Job Status	Resource Name	Job Execution Time
5/24/17 6:23 AM	REMEDIATE	pre-demo-pol100	pre-demo-firewallid	Completed	dcaqatarget03.h peswlab.net	0 Hours 2 Mins 19 Seconds
5/24/17 5:54 AM	SCAN	CIS	CIS Red Hat Enterprise Linux 7 Benchmark v1.0.0	Completed	dcaqatarget29.h peswlab.net	0 Hours 1 Mins 1 Seconds
5/24/17 5:51 AM	SCAN	CIS	CIS Red Hat Enterprise Linux 7 Benchmark v1.0.0	Completed	dcaqatarget28.h peswlab.net	0 Hours 1 Mins 3 Seconds
5/24/17 5:41 AM	SCAN	CIS	CIS Red Hat Enterprise Linux 7 Benchmark v1.0.0	Completed	dcaqatarget27.h peswlab.net	0 Hours 1 Mins 3 Seconds
5/24/17 4:56 AM	SCAN	PCI	Payment Card Industry (PCI) Data Security Standard version 3.2	Completed	dcaqatarget29.h peswlab.net	0 Hours 0 Mins 38 Seconds
5/24/17 4:53 AM	SCAN	PCI	Payment Card Industry (PCI) Data Security Standard version 3.2	Completed	dcaqatarget28.h peswlab.net	0 Hours 0 Mins 39 Seconds
5/24/17 4:50 AM	SCAN	PCI	Payment Card Industry (PCI) Data Security Standard version 3.2	Completed	dcaqatarget27.h peswlab.net	0 Hours 0 Mins 38 Seconds

Out-of-the-box compliance content. By the time resources are deployed, they're already in desired compliance

Benchmarks

Regulatory



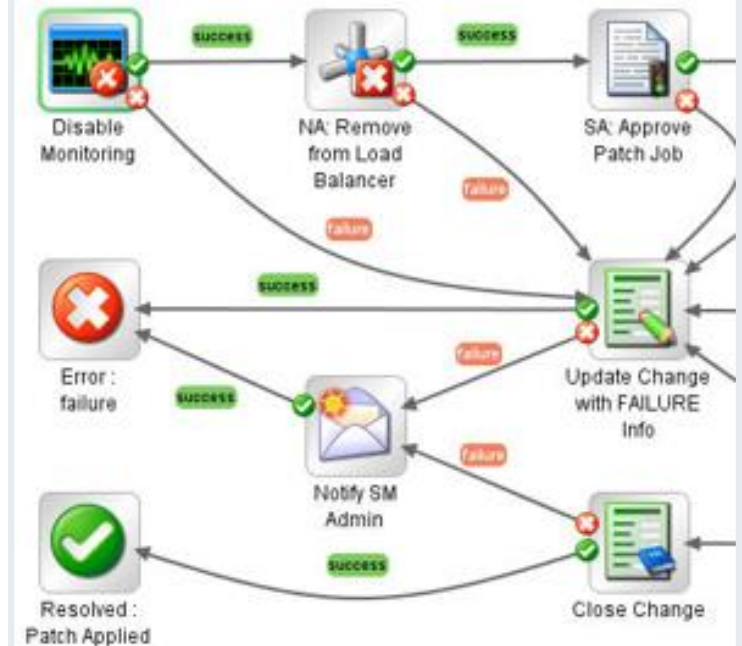
Security



Compliant templates

CIS-Compliant Docker Host 0 Deployments	CIS-Compliant Docker Image 0 Deployments
CIS-Compliant Oracle 11.2.0.4.0 on existing RHEL 6.7 server 0 Deployments	CIS-Compliant Oracle 11.2.0.4.0 with patch Id 24006111 on existing RHEL 6.4 0 Deployments
CIS-Compliant Oracle 12.1.0.2.0 on existing RHEL 7.1, with multiple databases 0 Deployments	CIS-Compliant Oracle 12.1.0.2.0 on existing RHEL 7.1, with single database 0 Deployments
FISMA Compliant Docker Image 0 Deployments	FISMA Compliant Linux OS 0 Deployments
HIPAA Compliant Linux OS 0 Deployments	Linux OS 0 Deployments
MSSQL 2008R2 on existing Windows 2008R2 with multiple databases 0 Deployments	MSSQL 2012 on existing Windows 2012 with multiple databases 0 Deployments
MSSQL 2014 on existing Windows 2012R2 0 Deployments	MSSQL 2014 with latest patch on existing Windows 2012R2 0 Deployments
PCI Compliant Linux OS 0 Deployments	Windows OS 0 Deployments

Remediation actions



Closed-loop remediation with Service Level Objective (SLO) enforcement

Add Maintenance Schedule

Name
Weekly

Description
Weekly Maintenance Schedule

Maintenance Window Type
Read and Write

Schedule Time
Coordinated Universal Time (UTC)

Start Time
02:00:00

End Time
03:00:00

Recurrence Pattern

Repeat
Weekly

Every 1 week(s) on

Sunday
 Monday
 Tuesday
 Wednesday
 Thursday
 Friday
 Saturday

Save

Edit Policy

Name
CIS

Description
CIS

Measurement Service Level Objective
1 MONTHS

Remediation Service Level Objective
1 MONTHS

Save Remove

The flowchart illustrates a remediation process. It starts with 'Disable Monitoring' (Success). This leads to 'NA: Remove from Load Balancer' (Success). From there, it branches into two paths: one leading to 'SA: Approve Patch Job' (Success) and another to 'Error: failure' (Failure). 'SA: Approve Patch Job' leads to 'Update Change with FAILURE Info' (Success). 'Error: failure' also leads to 'Update Change with FAILURE Info' (Success). From 'Update Change with FAILURE Info', the process branches into 'Notify SM Admin' (Success) and 'Close Change' (Success). 'Notify SM Admin' leads to 'Resolved: Patch Applied' (Success). 'Close Change' leads to 'Resolved: Patch Applied' (Success). The 'Resolved: Patch Applied' state is the final outcome of the remediation process.

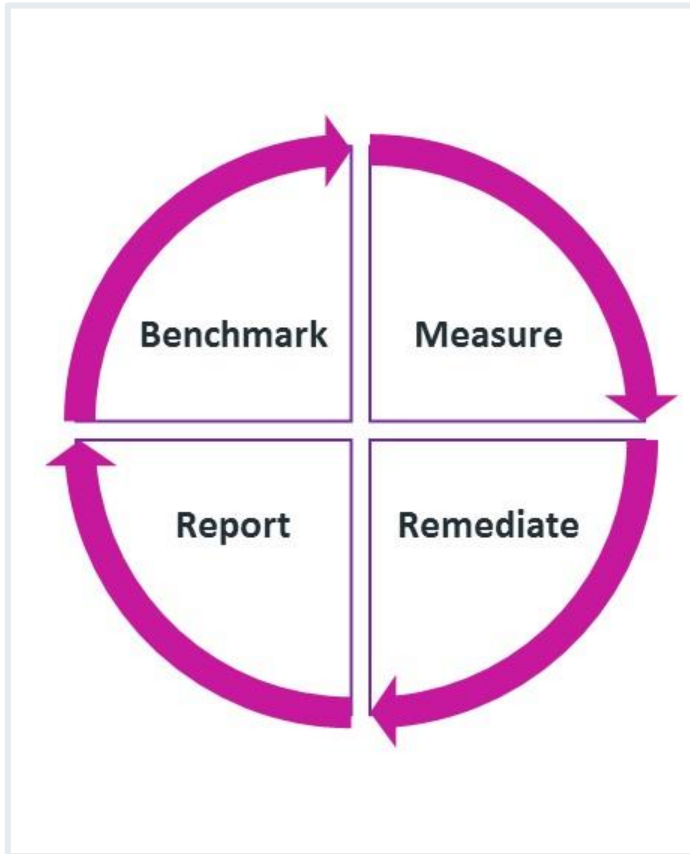
With OOTB remediation actions:

- Get it done right, each and every time
- Ensure consistency of remediation actions
- Run during maintenance windows

With SLO enforcement, remediate against objectives and prevent long lapses in compliance

Measure and remediate against objectives
e.g. Scan and compliance must occur within defined time period

Integrated, role-based access, exception management, auditable change history

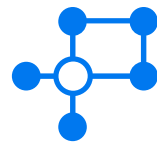


Ongoing, integrated compliance

Role-based access control



Authors
Operators
Access control by resource



Document and approve exceptions; expiration date, approver, by resource, by benchmark

Track all change history

Collaboratively monitor compliance state and receive alerts via chatbot with ChatOps

HPE Software

- nisarg

All Threads

CHANNELS (6)

- # general
- # sys_monitoring

DIRECT MESSAGES

- slackbot
- nisarg (you)
- + Invite people

#sys_monitoring

☆ | 👤 23 | ⚙ 0 | Add a topic

New major event on omi

Promotional Offer Application - Transaction failing to process

Receive Time	Node
2017-05-3 T08:30:44.685Z	omi
Category	Priority
job	medium

sanjay 12:05 PM
@nisarg Can you take a look at this event?

nisarg 12:05 PM
joined #sys_monitoring by invitation from @sanjay

nisarg 12:11 PM
@sanjay: Yeah, let me see if this is a compliance issue
@dcachp2 dca get deployment "Oracle Promotional Service Production"

dcabot APP 12:11 PM
Here is the summary for the deployment you requested:

Oracle Promotional Service Production	
Id: 81588bb6-5ca9-43c6-8630-3744d17821b9	
Status	Template
SUCCESS	CIS Compliant Oracle 12.1.0.2.0 on existing RHEL 7.1, with single database
Policies	
CIS ORACLE Database 12 Benchmark v1.2.0	
1	
Resources	
DMARZZ1M	ORCA1
Compliance score: 0 %	Compliance score: 90 %

Today **Team notified**, incident is reported to the sys_monitoring channel

Team collaborates in a conversational manner, across silos to solve issues real-time

Is it a compliance issue?

Dcabot retrieves compliance state, compliance is OK

Dcabot will watch compliance, and alert if compliance drops

nisarg 12:13 PM
Hmm...well at least from my end compliance seems ok.
@sanjay: I'll tell you what, while you look into it I'm going to mark it so that its being continuously monitored in case the compliance drops
@dcachp2 dca watch deployment "Oracle Promotional Service Production"

dcabot APP 12:15 PM

Watch

All done. I will notify you once the compliance score or status of deployment 'Oracle Promotional Service Production (81588bb6-5ca9-43c6-8630-3744d17821b9)' changes.

The following resources are being watched:

DMARZZ1M	ORCA1
Compliance score: 0 %	Compliance score: 90 %

Let's summarize—5 things to know about DCA compliance

1

One platform

Compliance in one place—across heterogeneous servers and apps, single-view reporting

2

OOTB market-leading content

Regulatory and security benchmarks, compliant templates, remediation actions

3

Auto-remediation

Closed-loop remediation with Service Level Objective (SLO) enforcement

4

Ongoing, process-integrated

RBAC, exception management, auditable change history

5

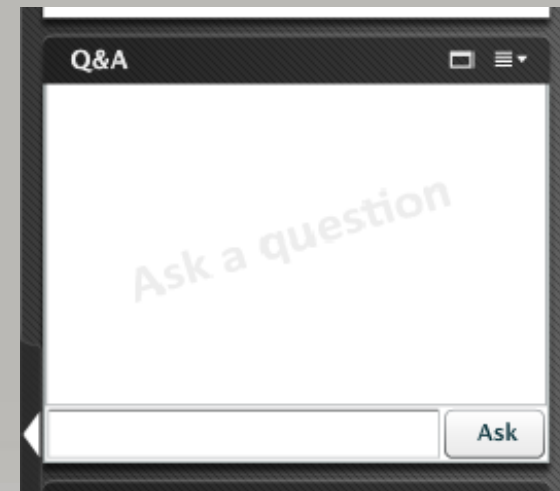
ChatOps collaboration

Compliance monitoring and alerts

Questions?

Q & A

Type your questions in
the Q&A pane



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Poll Question

What other topics would you like to see in future webinars?

Please type your suggestions in the Q&A pane.

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Thank You
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