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Integrating ITOM into DevOps Tool Chains - Monitoring as Code **September 16, 2020**



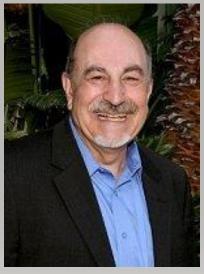


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Vivit's Application Performance Management Group (APM) Special Interest Group (SIG)



Ron Franklin
SIG Leader APM & DevOps
Principal Consultant / Architect
Randstad Technologies, LLC



Rocky Pisto SIG Leader APM Vivit Worldwide



Today's Moderator



Ron Franklin Principal Consultant / Architect Randstad Technologies, LLC



Today's Speakers



Dr. Lars Rossen Fellow, CTO Office Micro Focus



Michael Procopio Product Marketing Manager, Operations Bridge YOUR INDEPENDENT MICRO FOCUS SOFTWARE USER COMMUNITY



House Keeping

This "LIVE" session is being recorded
 Recordings are available to all Vivit members

Session Q&A:

Please type questions in the Questions Pane



Webinar Control Panel

Toggle View Window between Full screen/window mode.

Questions









Agenda



How Monitoring as Code fits into DevOps

How Micro Focus ITOM products implement Monitoring as Code done the DevOps way





What is Monitoring as Code

Definition: Monitoring as code A shift left activity

IT in a nutshell

- Someone develops Bits
- Someone else runs the Bits

Monitoring

 To make the bits run stable you monitor what goes on

Monitoring as Code

- Who ever makes the Bits, also define how to monitoring
- Preferably as monitoring Bits



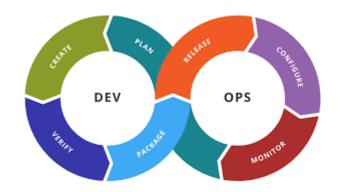




Definition of DevOps

DevOps is a set of practices that combines software development (Dev) and IT operations (Ops).

- Wikipedia





Definition of DevOps

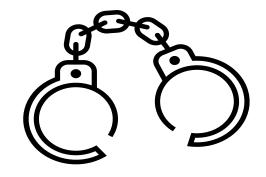
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DevOps is a cover for Development to take over the world

- Lars Rossen







Definition of DevOps

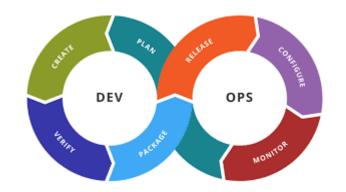
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Unfortunately, Dev do not understand Operations at enterprise scale

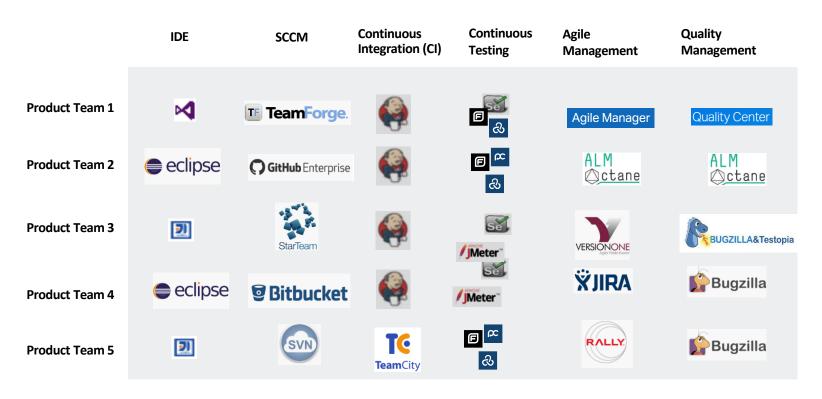








Tool and methods: Developers cannot even agree across teams

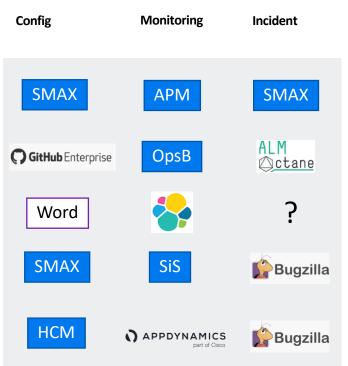






Tool and methods: So what happens if each team is defining monitoring





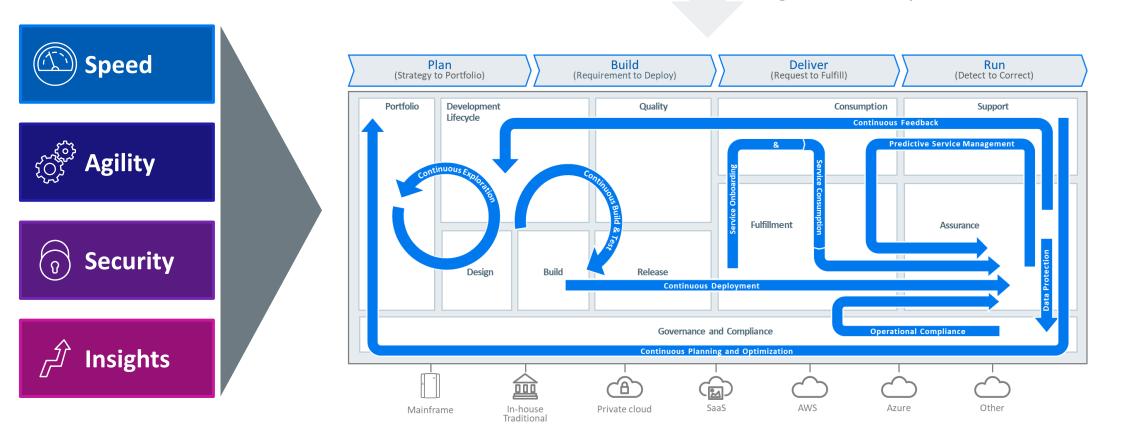
DEV



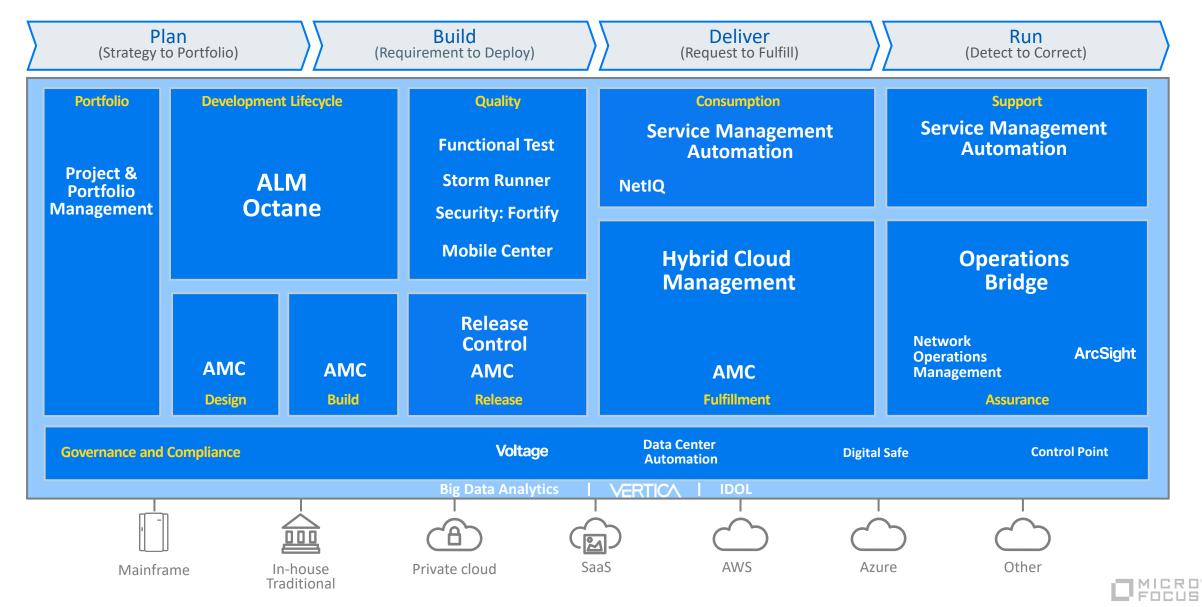
Driving Digital Transformation with one unifying architecture



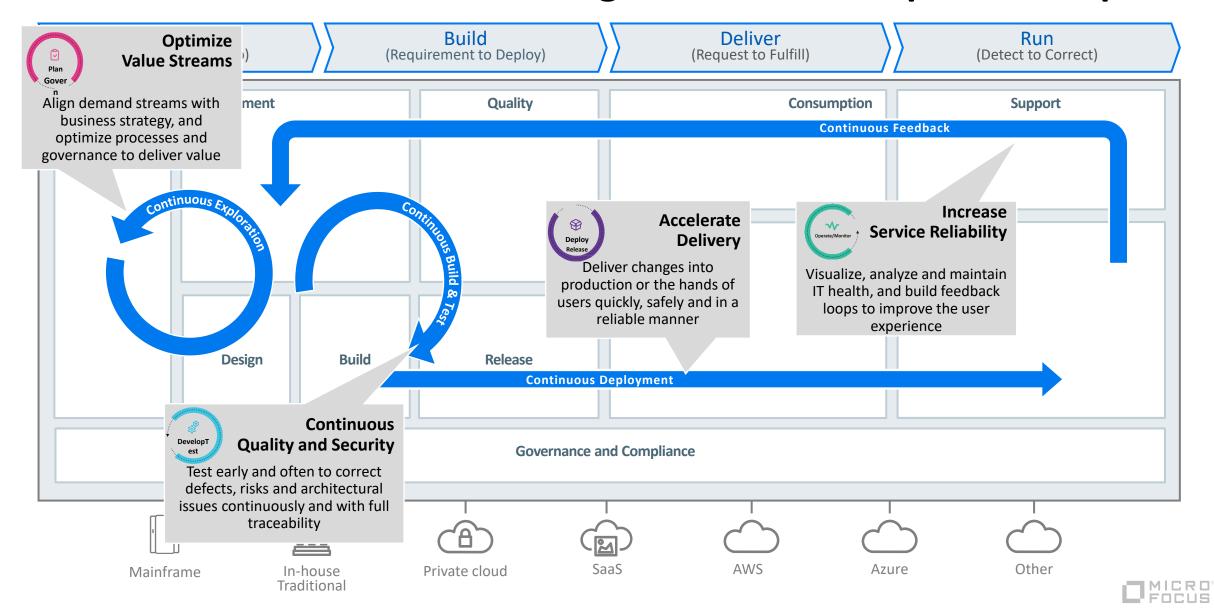
The **Factory** of the Digital Enterprise

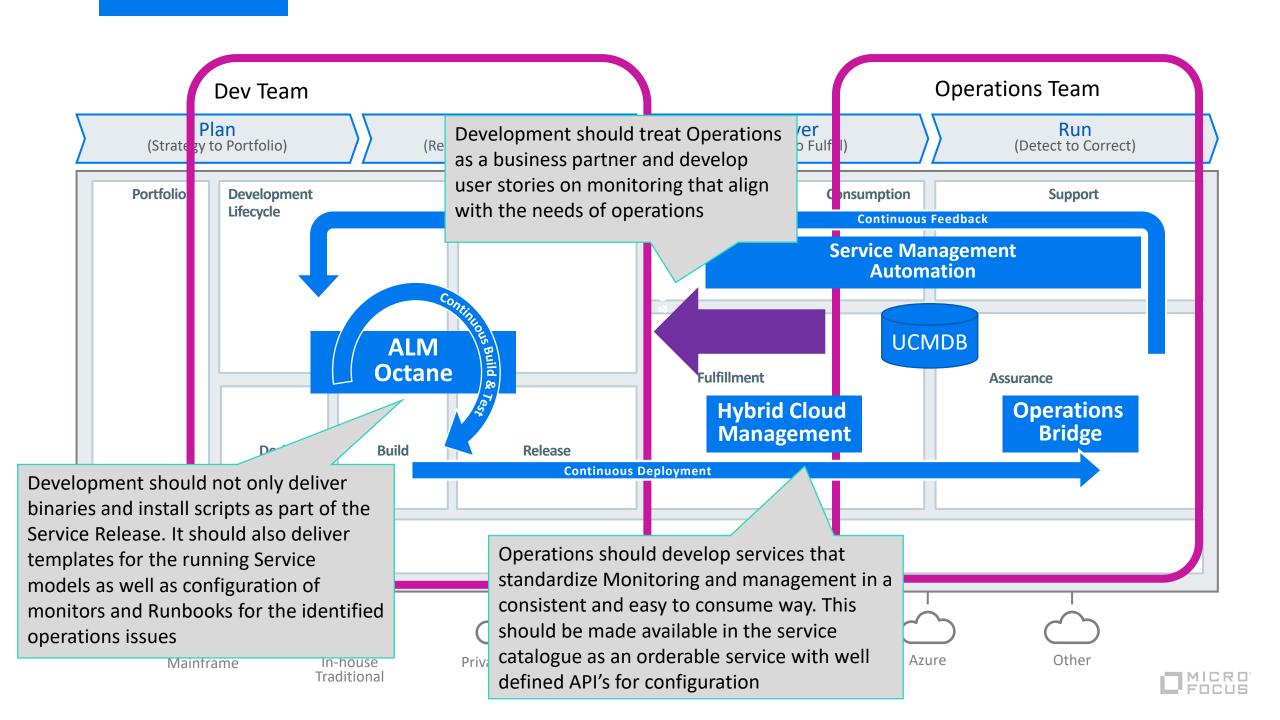


Define the functional components of the standardized Factory



Define the Value flow and integrations for Enterprise DevOps





Monitoring as code



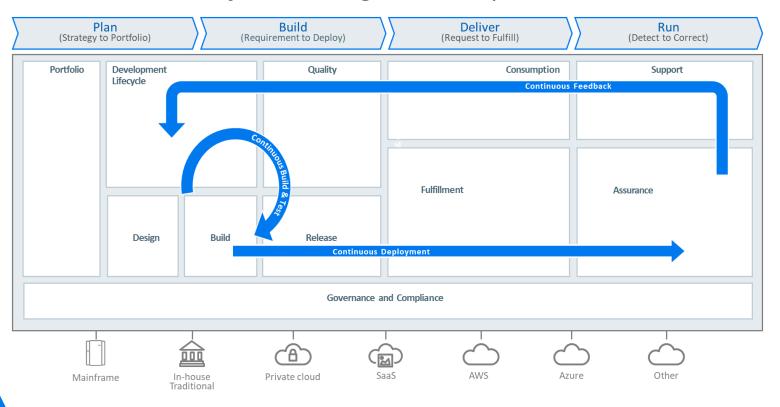


Define Monitoring requirements with Dev

Create a common framework for defining Monitoring

Create a common basis (factory) for Monitoring

The **Factory** of the Digital Enterprise







Micro Focus Tools: Overview and Setup

Basic Process Flow

Setup

Dev creates code



HCMX deploys



OpsBridge monitors

App sends monitoring data



Agent consumes data



OpsBridge displays data

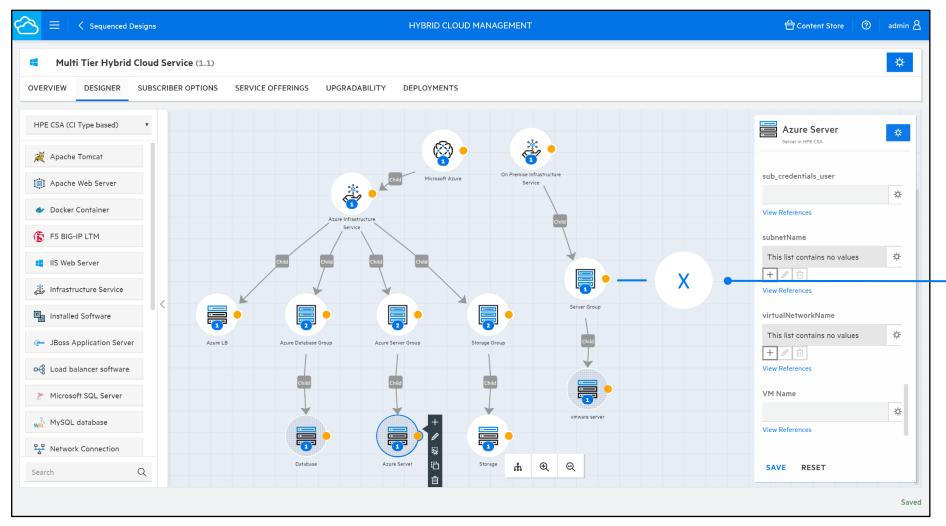
Data instance





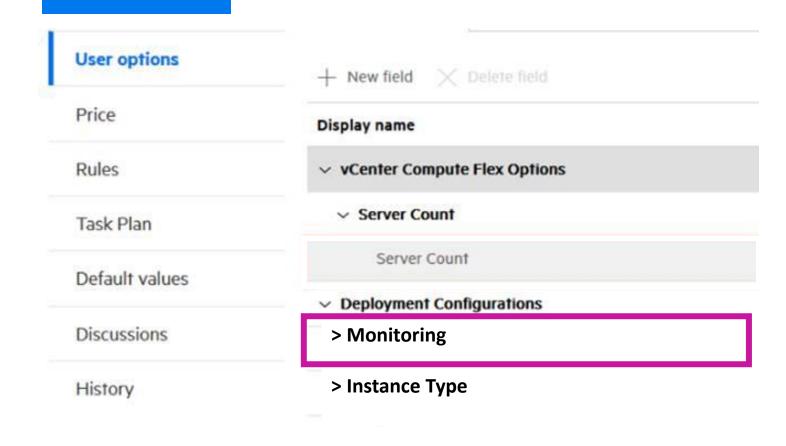
Dev Lead and HCMX Service Designer

Single design automates the fulfillment of a wide variety of requests

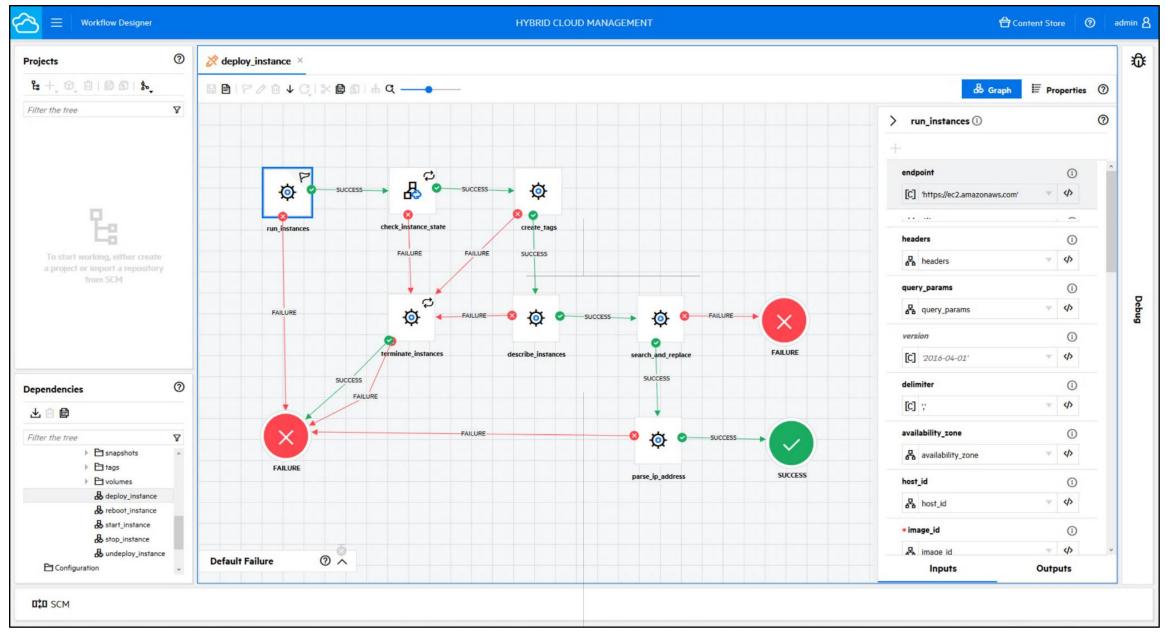


Monitoring setup





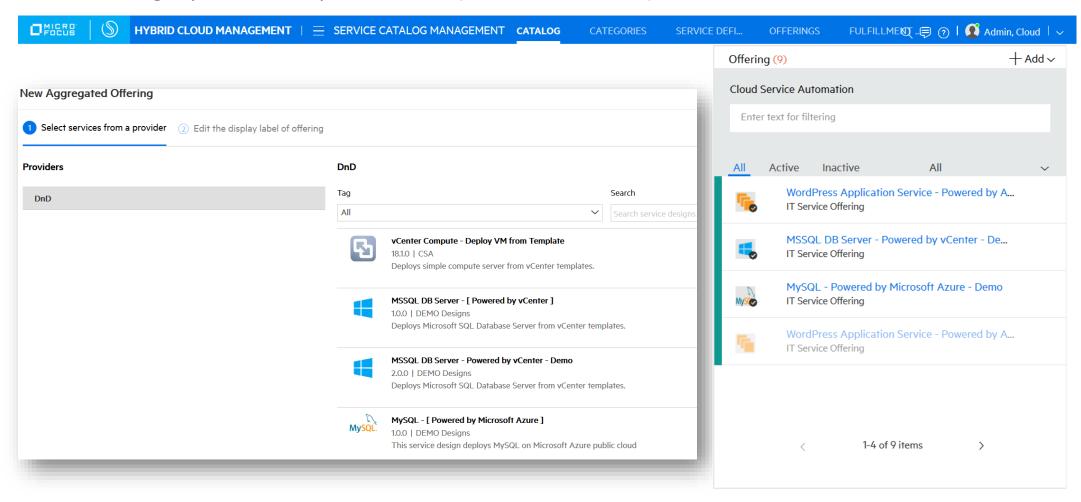






Create Catalogue Entry for Deploying Application

Wide coverage: private and public cloud (AWS, Azure, GCP); virtual machines and bare metal servers





Associated Tasks

OBM

OBM service discovery and monitoring policy



BPM

- Dev/Test writes/records BPM script and configuration
- Script is activated with API via APM



RUM

Create XML configuration – upload to APM

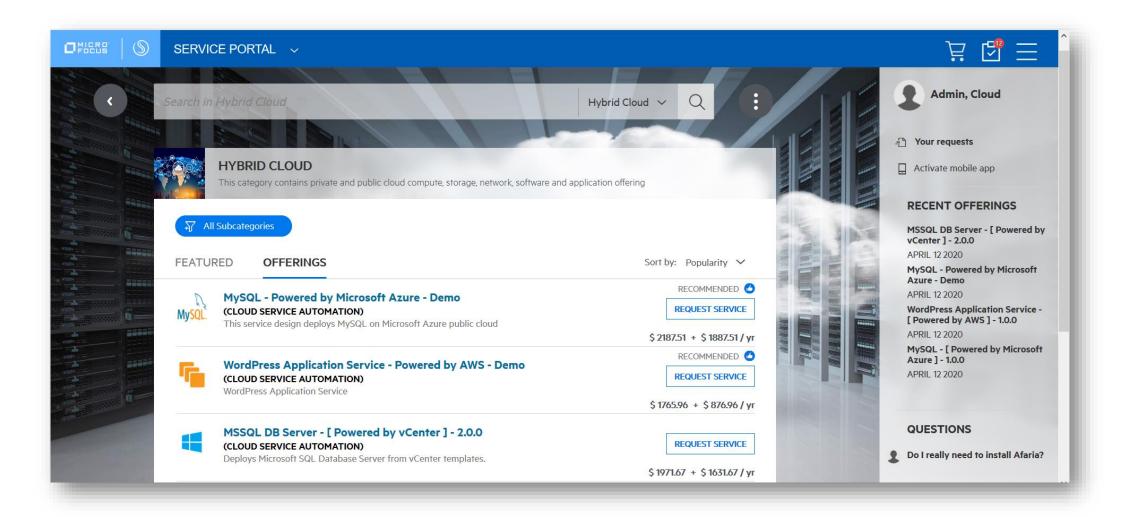




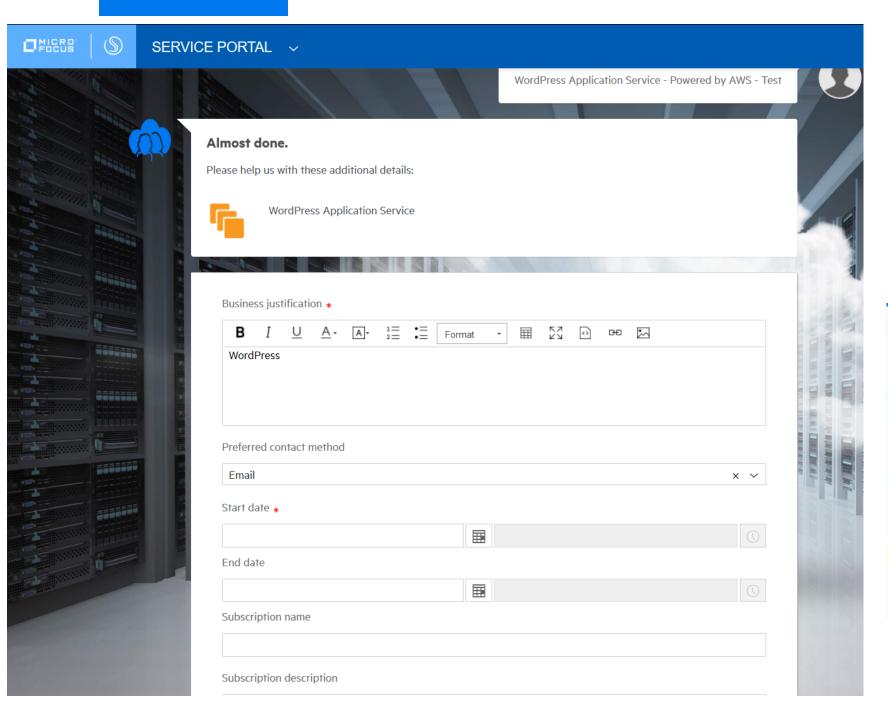


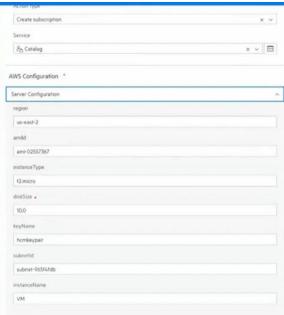
Micro Focus Tools: Request Service

Catalog of Services











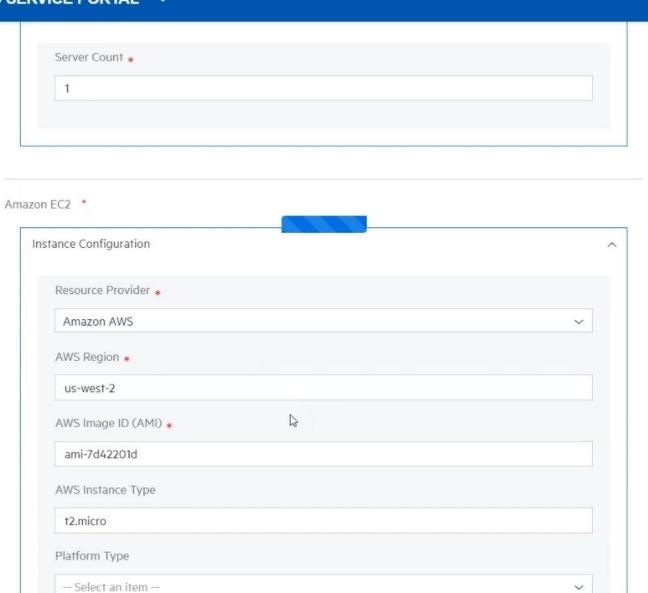
CLOUD SERVICE PORTAL V











Set monitoring parameters





Confirming Your Request

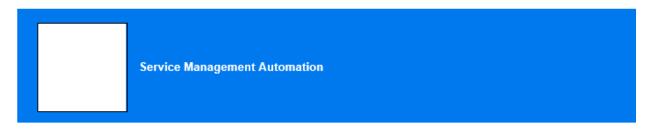
Subject: Request 22730 successfully created. **Service Management Automation** Thank you, Pradeep Kumar Request 22730: MySQL – Powered by AWS was successfully created

Sent automatically from Service Management Automation. Please do not reply directly to this email.



Solution Provided

Subject: Pradeep Kumar, here"s a solution for your request 22730.



Hi Pradeep Kumar

A solution has been provided to your request:

Request 22730: MySQL – Powered by AWS

Request solution

Your service has been provisioned successfully. To view the details, go to the "Services and Assets" page to find your subscription.

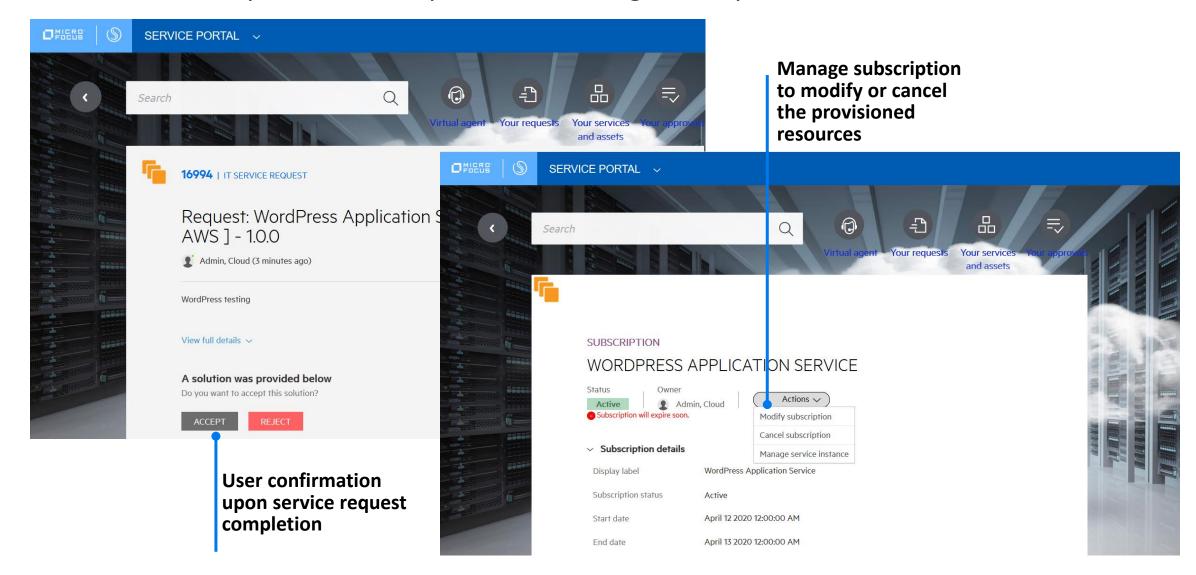
Accept

Add comments



Service Request and Subscription Management

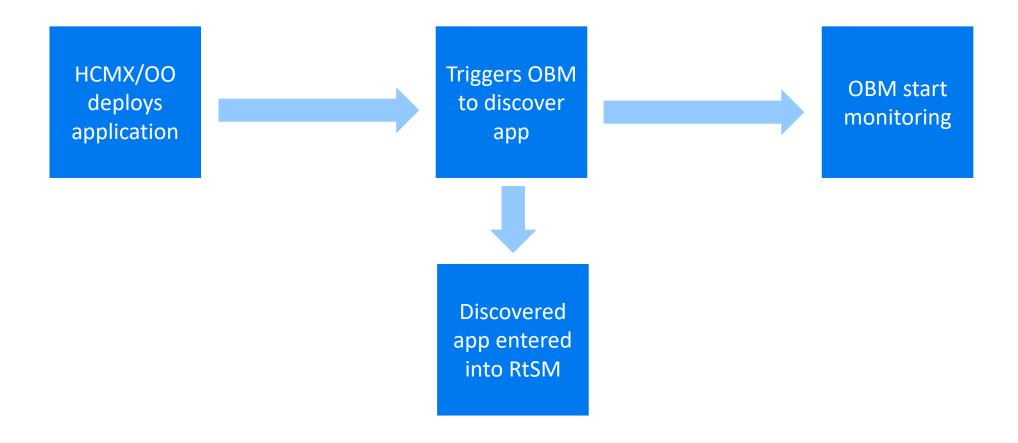
Intuitive and simple service request and management processes





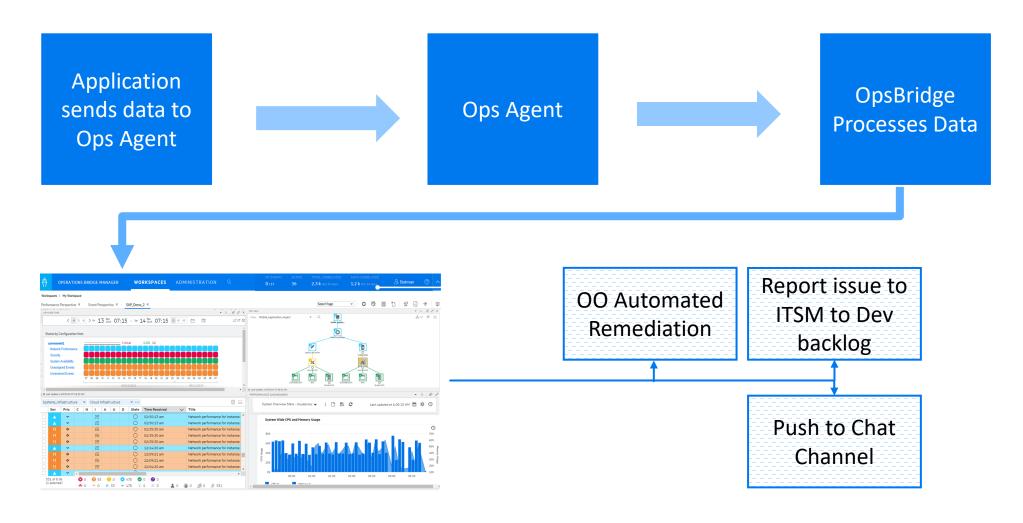
Micro Focus Tools: Behind the scene

Operations Orchestration Does the Work



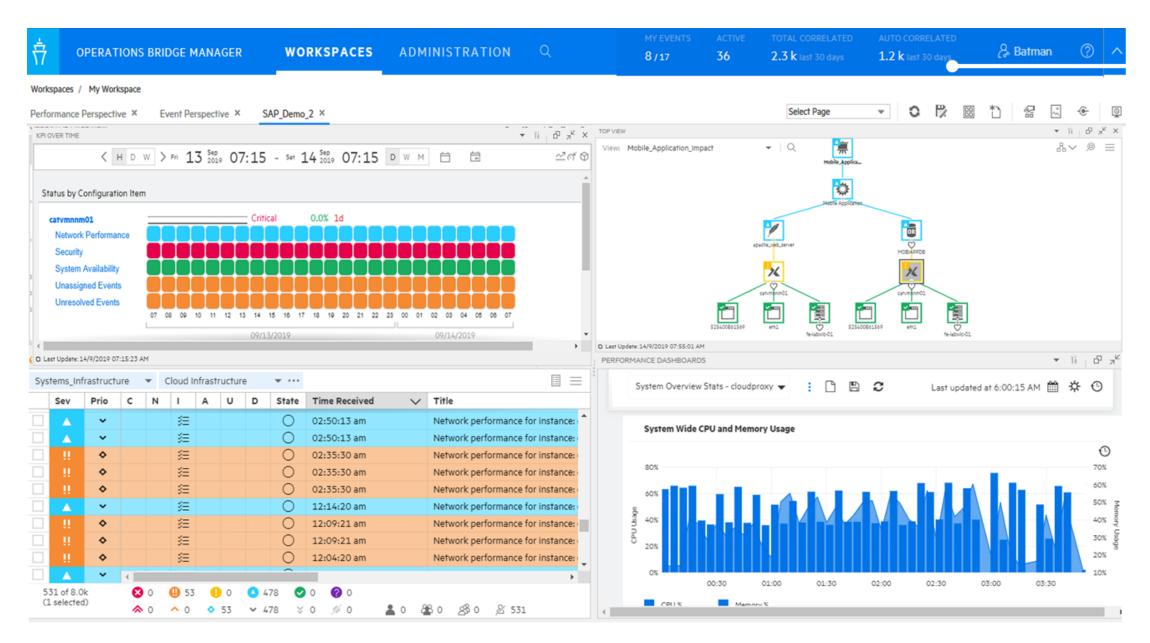


For Data to Display to Remediation



Operations team monitors 24/7 – Dev has access on-demand







INFRASTRUCTURE EXECUTIVE SUMMARY

INVENTORY

5040

OPERATIONS AGENT MANAGED NODES

750

SITESCOPE MANAGED NODES

70000

NETWORK NODES

130000

NETWORK INTERFACES

240

APPLICATIONS

AVAILABILITY



LEAST AVAILABLE SYSTEM NODES (TOP 5)

NODE	AVAILABILITY (%)
node1	93.5
srve11	94.8
serv29	95.3
syst41	95.5
sysl15	96.5

LEAST AVAILABLE NETWORK NODES (TOP 5)

NODE	AVAILABILITY (%)
rtr33	94.3
swc4	94.5
nwn3	94.8
rtr53	96.3
rtr23	96.5

LEAST AVAILABLE APPLICATIONS (TOP 5)

APPLICATION	AVAILABILITY (%)
msapp9	91.1
vbapp2	91.8
abapp6	92.3
msapp1	97.5
msapp3	98.4

PERFORMANCE



Impacted locations



42/380 DirectPayPortal Impacted locations **32**/350 ITOMDocPortal Impacted locations **14**/180

APPLICATION PERFORMANCE



AOS

Using Operations Agent to Collect Data

АРІ Туре	Summarization Type	Data Type	How to choose an API Type
AddCounter	Gives the last value of the summarized interval.	Integer	Use the Counter metrics to submit a cumulative count of activity, such as CPU times, physical IOs, paging, network packet counts and the like, to the datastore.
AddGauge	Gives the average of all values in the summarization interval.	Integer, Real	Use the Gauge metrics to submit an instant value at the time of the observation, such as the run queue, number of users, file system space utilization and the like, to the datastore.
AddAttribute	Gives the data that does not change frequently. No summarization is applicable. History of Attribute data is not saved in the datastore. Whenever an Attribute is changed, it is replaced in the datastore.	Integer, Real, String	Use the Attribute metrics to submit static definitions or value such as the OS name, version, release, physical memory, CPU clock speed and the like, to the datastore.
AddString	Gives the last value of the summarization interval.	String	Use the String metrics to submit string values that change often.



Monitoring as code: The Micro Focus way

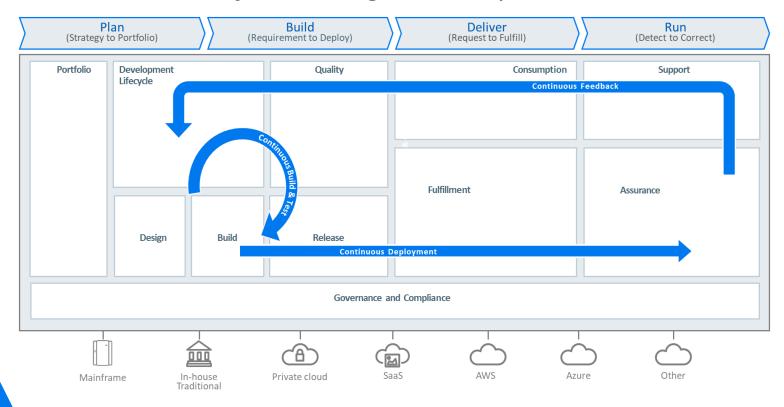


Development output:
Service Models & **OO** scripts

Common Framework: **HCMX**

Common target: OpsBridge

The **Factory** of the Digital Enterprise





Where to Find Out More

- Article: How to do monitoring as code the DevOps way
- Blog: How Operations Bridge and hybrid IT tools do monitoring as code
- Blog: <u>Easily collect custom metrics using Perl and visualize in OBM</u>
- Web page: <u>Hybrid Cloud Management X web page</u>
- Web page: Operations Bridge web page
- Web page: Operations Orchestration web page
- Docs: Agent API doc page



Questions & Answers

Please type your questions in the questions pane.



Upcoming Events

VIVIT:

Tuesday, September 22, 2020

Vivit Florida User Group Virtual Lunch & Learn: Making ALM Your Own with Workflow Customization

12:00 - 1:00 PM EDT

https://www.vivit-worldwide.org/events/EventDetails.aspx?id=1409489&group=

Micro Focus:

Operations Bridge Events:

https://community.microfocus.com/t5/Operations-Bridge/ct-p/Ops_Bdg



Thank you

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https://www.vivit-worldwide.org/





