

## Discover 2017

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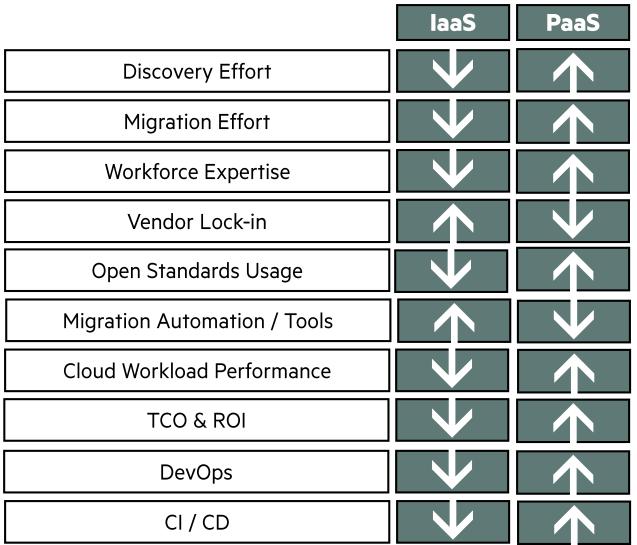
# Build and use a DevOpsdriven migration pipeline

Automation for Workload Portability

Vedanta Barooah – Senior Enterprise Cloud Architect (WW) Eric Johnson – North America Hybrid IT Portfolio Leader



#### Cloud Workload Deployment Models – "One size doesn't fit all"



laaS Migrations (Virtualization Switch) require less effort and low workforce expertise.

Customers achieve more automation and cloud performance by using PaaS / Cloud Native

Better TCO / ROI using PaaS/Cloud Native

Landing zones for Workloads are based on business priorities and often changes with time, its best to sustain them in a composable format which is agnostic towards the target platform

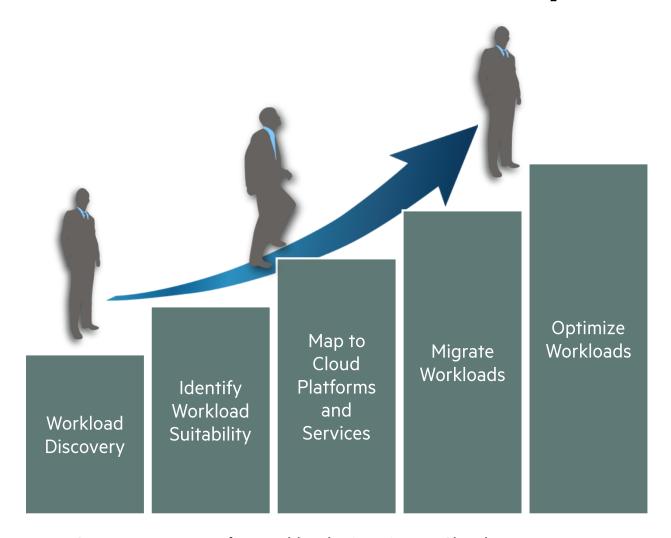


#### **Common Application Migration Challenges**

- -Knowledge of current enterprise IT landscape
- —No single source of truth for application portfolio
- Application qualification for Cloud migrations
- Applications are continuously moving targets
- —Requirement to prove ROI before migration
- –Application performance goals
- -Multiple landing technologies and targets
- -Hybrid cloud orchestration and management
- —New technology and culture adoption challenges



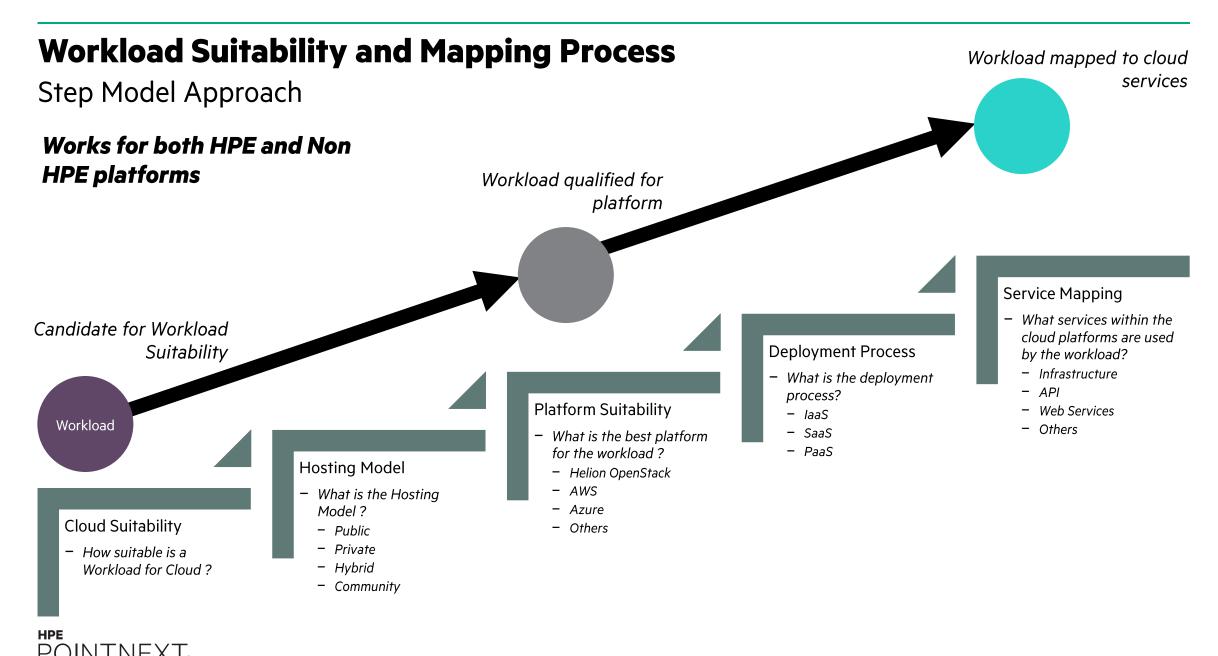
#### **HPE Pointnext Workload Portability Services**



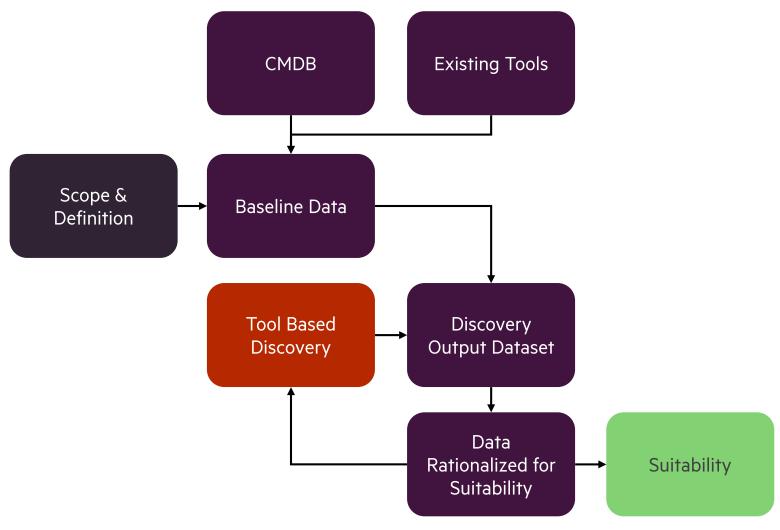
- Turnkey solution for Cloud Migrations
- Start anywhere in the journey
- Cloud platform vendor agnostic
- Support multiple landing zones
- Automation and DevOps at its core
- Unique IP and Partner Tools
- Includes enablement services for optimization

Customer Journey for Workload Migration to Cloud





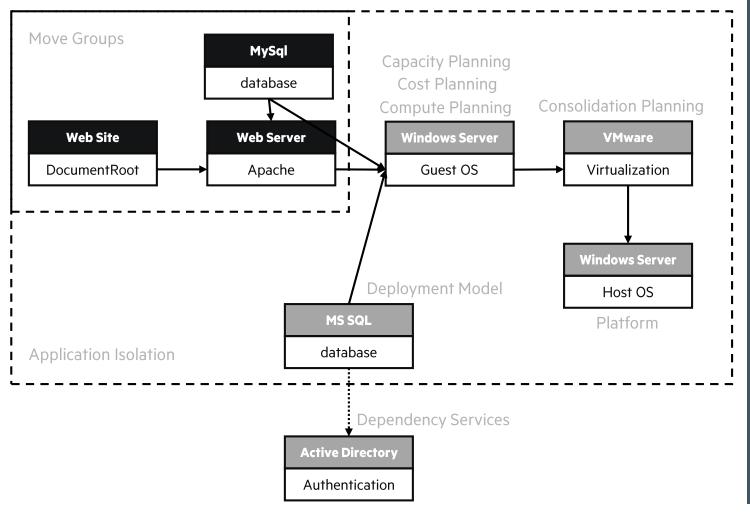
#### **Workload Data Collection Strategies**



- Define and solidify scope
- Use exiting inventory and data sources
- Use existing tooling when feasible
- Use new tooling when necessary
- Multiple options on tools
- Reduce noise, discover and filter only required data
- Focus on simplicity and speed



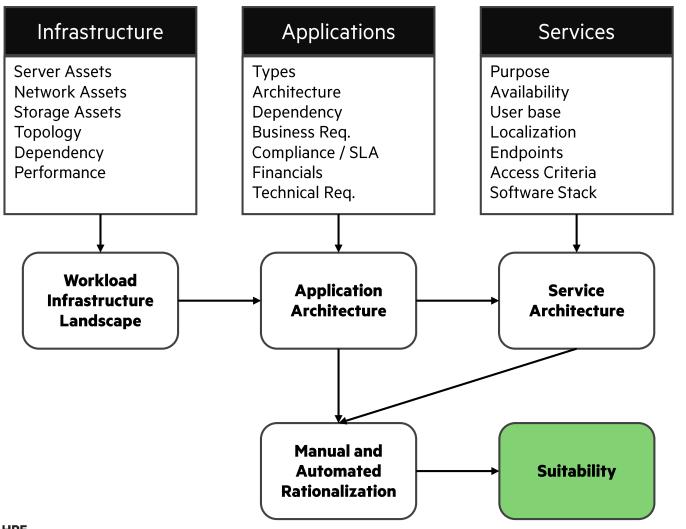
### Consider what role "Dependency Mapping" plays in transformation?



- Relevant mostly for laaS deployment model
- Server dependencies used for application isolation
- Move groups from application dependency
- Capacity, Cost and Compute planning from performance matrices
- Platform and consolidation planning from Infrastructure inventory
- Application service dependency and infrastructure services



#### Discovery of workload information is an involved process



Infrastructure discovery

Used to identify workload landscape

**Application Isolation** 

Directly used for laaS moves

Capacity and Performance

Application Discovery

**Application Dependency** 

**Application Architecture** 

Capacity and Performance

Attached services

Topology

Geographic Localization

Services

**Application Ecosystem** 

Services and Functions

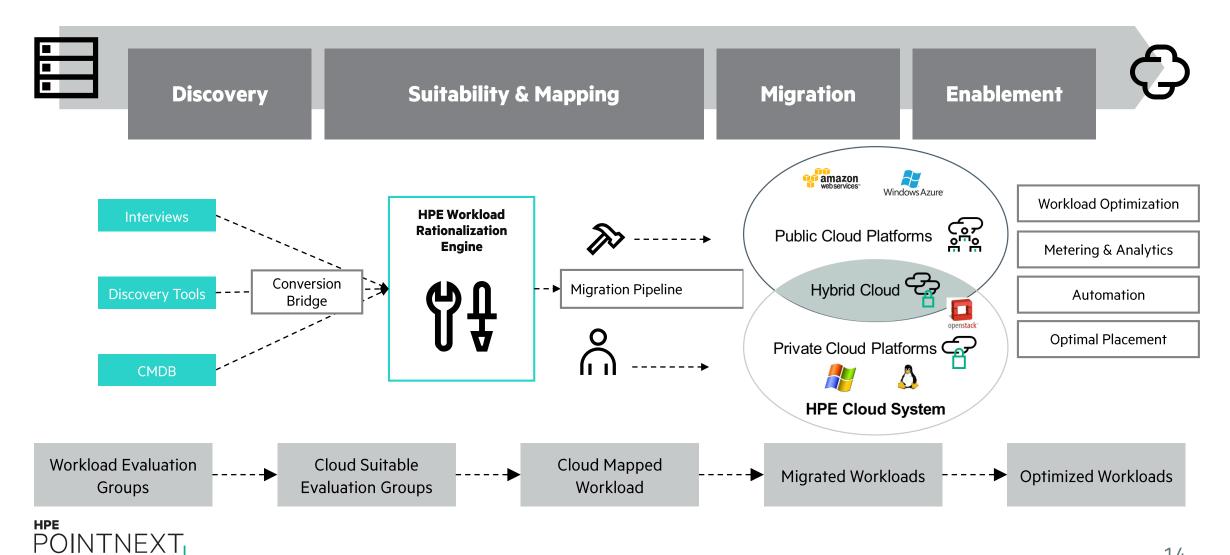
Processes

## **Workload Migration to Cloud - Modules**

Compute	Container	PaaS	SaaS	Databases	Storage & CDN	Cloud Services	Modernization
		0°0 0°0					
VMware OpenStack AWS EC2 Azure VM Baremetal & Virtual	Docker AWS ECS Mesos Azure Container Service	AWS Beanstalk AppEngine Stackato Heroku	Enterprise COTS	Oracle MySQL MS SQL Server Data Warehouse (TDB)	Storage Migration	Public Cloud - AWS - Google Cloud Platform	Enterprise Application Modernization

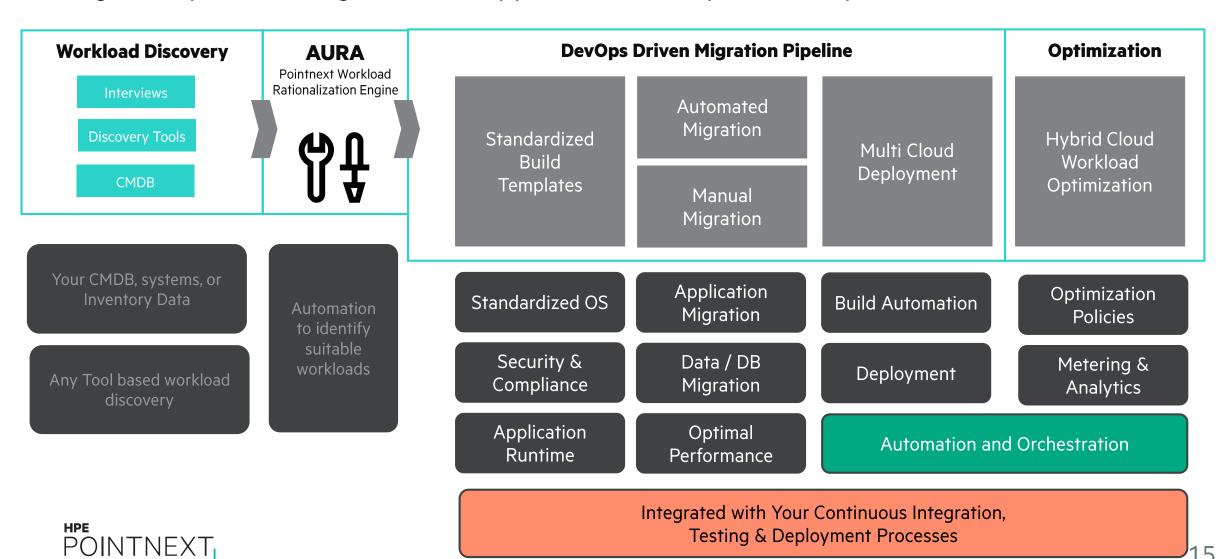


#### **HPE Pointnext Workload Portability Services**

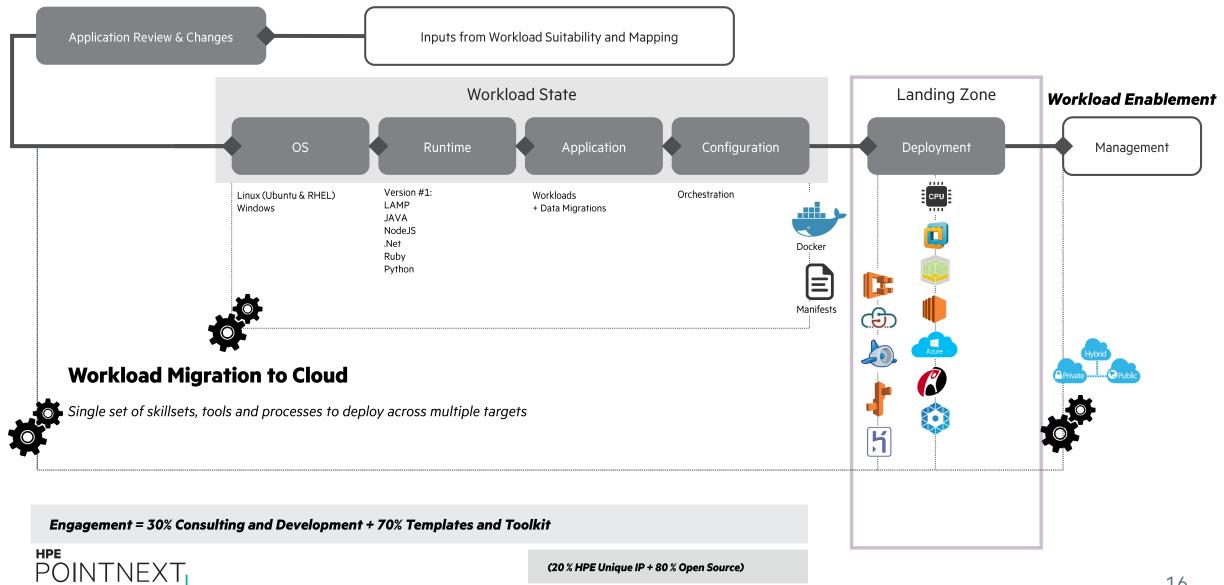


#### **DevOps Style Migration Pipeline – Engagement Process**

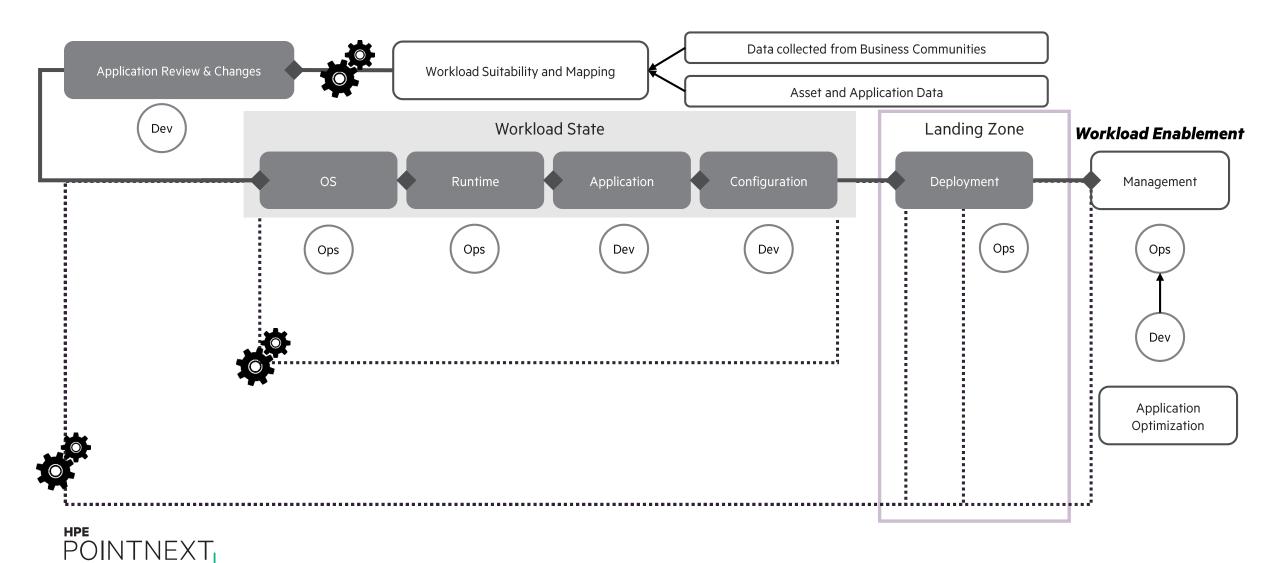
Migration process integrated with application development lifecycle



#### **DevOps Pipeline for Workload Migrations**



#### **DevOps Pipeline for Workload Migrations**



#### **Hands on Lab: Objectives**

- Code Walkthrough
- Application deployment on Virtual Machine
- Container Build
- Container Deployment
- Challenge Build



#### Hands on Lab: Step by Step

- You will perform all the steps in a system hosted as a Azure VM
- Access system from your desktop using SSH client
- Clone source code from <a href="https://github.com/vedanta/dmp">https://github.com/vedanta/dmp</a>
- Step by step notes: <a href="https://github.com/vedanta/dmp/blob/master/Exercise.md">https://github.com/vedanta/dmp/blob/master/Exercise.md</a>



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## POINTNEXT

# Thank you

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