

Kubernetes on Azure Quickstart: 4-Week Proof of Concept

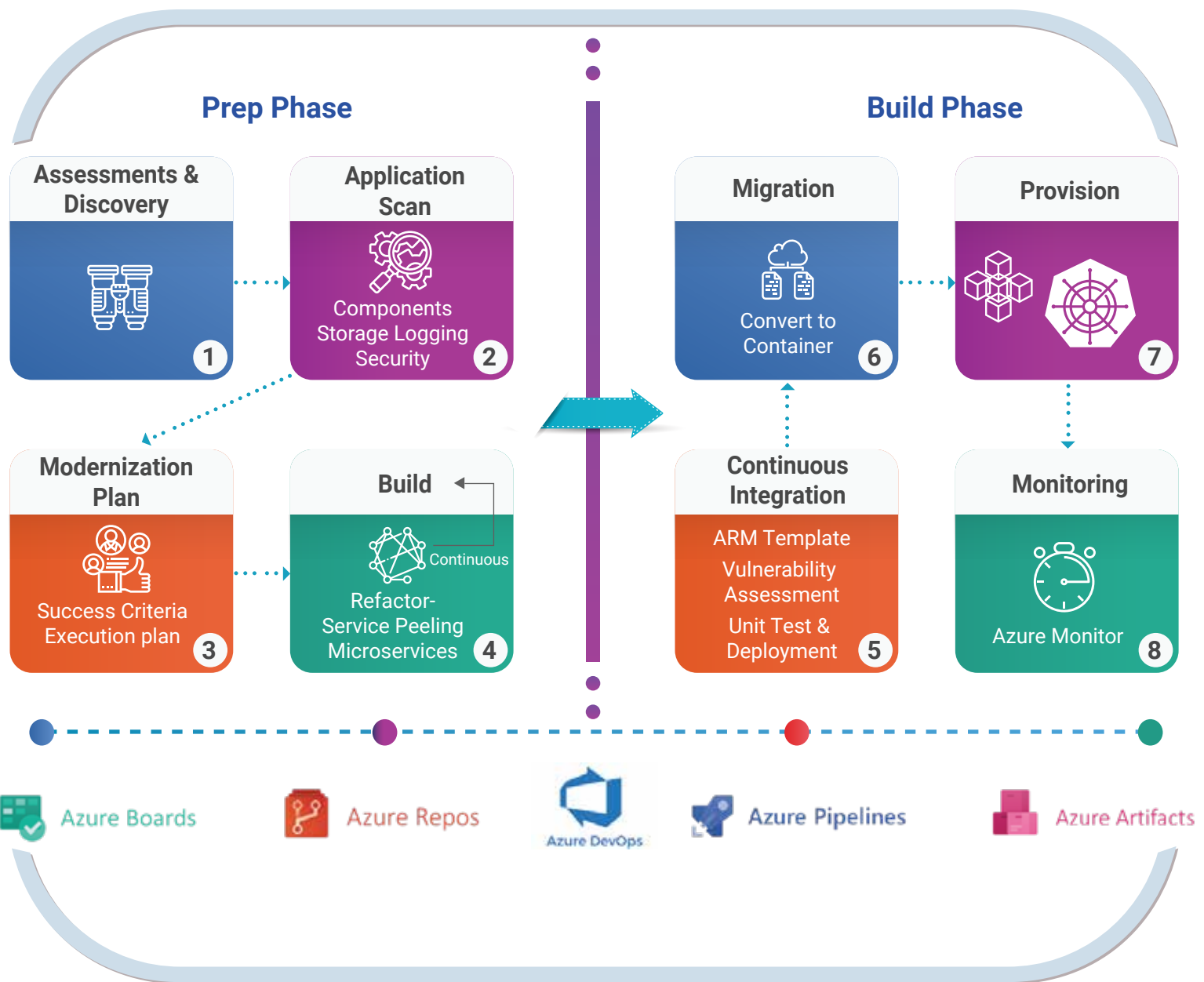
Azure Kubernetes Service (AKS) makes deploying and managing containerized applications quick, easy, and scalable with dynamic auto-scaling. Nous' Kubernetes on Azure QuickStart will demonstrate the power of Kubernetes for your organization by deploying a selected application in your environment, containerized and orchestrated using Azure Kubernetes Service.

Microsoft Partner





- Gold Data Analytics
- Gold Data Platform
- Gold Cloud Platform
- Gold Application Development
- Gold Application Integration



Solution Overview



Engagement Plan

 Prepare Week 1	 Build Week 2	 Deliver Week 3	 Operate Week 4
<ul style="list-style-type: none">• Azure/AKS insight workshop• Identify candidate application(s)• Application scanning and dependency analysis• Target architecture definition• Azure account setup, policies, and compliance• Migration roadmap and plan	<ul style="list-style-type: none">• Setup repository• Build scripts - Docker, orchestration• Packaging and container registry• Cloud automation provisioning• Azure DevOps setup• Configure Azure governance and security templates	<ul style="list-style-type: none">• DevOps CI/CD pipeline with automated tasks• Test run, validation, verification• Release management workflow• Blue-Green deployment strategy• Deploy AKS cluster into production with ARM templates	<ul style="list-style-type: none">• Kubernetes control plane telemetry and log dashboards• Declarative resource management - continuous monitoring, alarm setup, incident mgmt. workflows• Auto-scaling• Production support

Deliverables



Azure Kubernetes insight workshop



Fully configured Kubernetes cluster in customer Azure account for selected application(s)



Azure governance, policies, and security blueprints



Reference architecture and migration approach documentation



Azure DevOps CI/CD pipeline with automated tasks



Best practice guide to operate and manage AKS environment

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