Deploying Azure VM Scale Sets

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Overview

- Identify VMSS target scenarios
- Deploy and manage a scale set
- Configure autoscaling rules
- Examine low-priority deployment option

Scale Set Target Scenarios

Azure VMSS Target Scenarios

Need to create and manage multiple VMs

Need for high availability and app resiliency

Need for large (1000 instance) scale

Need for IaaS autoscale

PaaS Scaling vs. IaaS Scaling

Azure App Service

High agility at the expense of administrative power

The underlying Hyper-V VMs are almost totally abstracted from you

Easy manual, scheduled, or automatic scale out and scale back

Virtual Machine Scale Set (VMSS)

Maximum administrative power at the expense of agility

VMSS represents Azure's approach to IaaS horizontal scaling

Azure VMSS Value Proposition

Easily create and manage multiple VMs (Windows Server or Linux)

Provide high availability and application resiliency to your IaaS workloads

Automatically scale as resource demand changes

Work at epic compute scale (1,000 instances)

Deploy a Scale Set

Demo

1

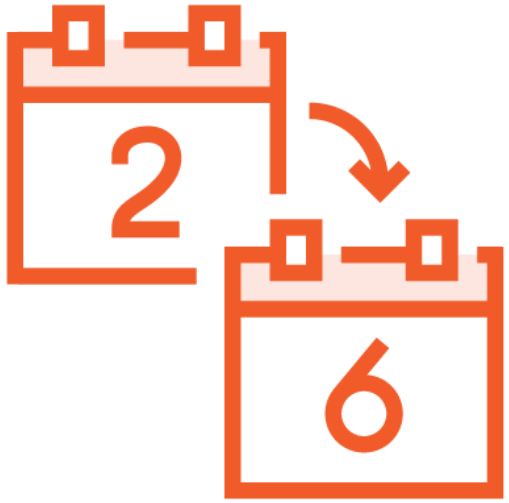
Deploy VMSS

Connect to a host

Configure a Scale Set

Autoscale

Manual



Scheduled

Metrics

Low-Priority VMs on Scale Sets

Take advantage of unutilized capacity

Good for workloads that can handle interruption

VMs can be evicted at any time

Eviction policy: Deallocate or Delete

Demo

2

Configure autoscale

* Revisit low-priority VMs

Summary

VMSS allows you to autoscale IaaS workloads

Consider Azure Batch, which uses VMSS under the hood

Thank you!

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