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Azure Talk – Azure Compute

Organizer and Speaker: Niraj Kumar(Lead Azure Architect, MCT) Guest Speaker: Naveen Kollipara(Azure Architect) Shakti Ranjan(Cloud Solution Specialist)





Azure Talk by Niraj kumar, Cloud Architect!

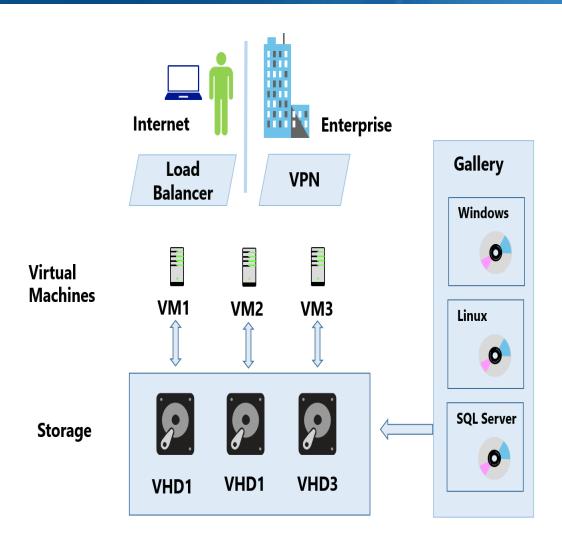
Agenda Azure Compute

- Azure Virtual Machine
- Azure VM Scale set
- Migrating from Classic to ARM.
- Azure Demo





Azure Virtual Machine



- Azure Virtual Machines is one of several types of on-demand, scalable computing resources that Azure offers.
- Azure Virtual Machines lets you create and use virtual machines in the cloud. Providing what's known as Infrastructure as a Service (laaS).
- Azure VM's provide you with an operating system, storage, and networking capabilities and can run a wide range of applications.

Azure Virtual Machine Sizes

- You can configure virtual machines with a variety of options for CPU, memory, and IOPS.
- The Windows virtual machines sizes consist of several series: A-series, D-series, F-series, and G-series. When your requirements change, it is easy to resize the VM.

Туре	Sizes	Description
General Purpose	DSv2, Dv2, DS, D, Av2, A0-7	Balanced CPU-to-memory ratio. Ideal for testing and development, small to medium databases, and low to medium traffic web servers.
Compute Optimized	Fs, F	High CPU-to-memory ratio. Good for medium traffic web servers, network appliances, batch processes, and application servers.
Memory Optimized	GS, G, DSv2, DS	High memory-to-core ratio. Great for relational database servers, medium to large caches, and in-memory analytics.
Storage Optimized	Ls	High disk throughput and IO. Ideal for Big Data, SQL, and NoSQL databases.
GPU	NV, NC	Specialized virtual machines targeted for heavy graphic rendering and video editing. Available with single or multiple GPUs.
High Performance Compute	H, A8-11	Our fastest and most powerful CPU virtual machines with optional high-throughput network interfaces (RDMA).

Azure VM Scale Sets





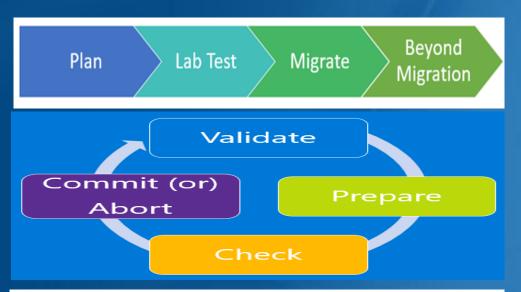


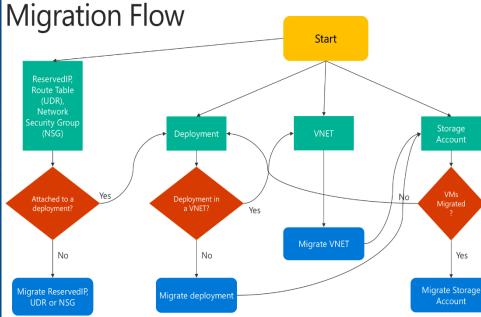
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- Virtual machine scale sets are an Azure compute resource that you can use to deploy and manage a set of *identical VMs*.
- Support Windows platform images, Linux platform images, custom images, and extensions.
- Can be configured with autoscale settings.
- Support hyperscale workloads. Azure container service and Azure Service fabric run on VM scalesets.
- Simplified networking: Integrates with Azure networking resources such as Azure Load Balancer and Application Gateway.



Migrate from Classic to ARM





Azure offers 2 deployment model

- ARM(Azure Resource Manager)
- Classic or ASM(Azure Service Manager)
- Azure originally provided only the classic deployment model
- In 2014, Resource Manager was introduced
- Supported scopes of migration
 - Migration of virtual machines (NOT in a virtual network)
 - Migration of virtual machines (in a virtual network)
 - Storage accounts migration
 - Unattached resources (Network Security Groups, Route Tables & Reserved IPs)

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Azure Compute

demo

Niraj Kumar Lead Azure Architect, MCT(Microsoft Certified Trainer) Shakti Ranjan(Cloud Solution Specialist)



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