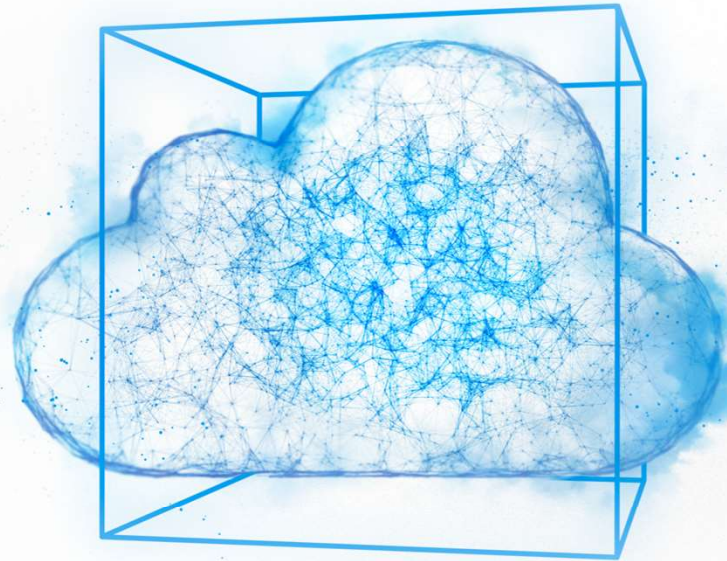


Azure Innovation Days



Getting Started

You should have:

- Lab Guide
- Azure Account (Trial etc.)
- Internet Access

DISCLAIMER: AHEAD IS NOT RESPONSIBLE FOR ANY COSTS INCURRED DURING THIS TRAINING. PLEASE DELETE YOUR RESOURCE GROUP AT THE END OF THE COURSE.

Accessing the Code

<https://github.com/AHEAD-Labs/AzureInnovationDay>



GitHub

[AHEAD-Labs/AzureInnovationDay](https://github.com/AHEAD-Labs/AzureInnovationDay)

Contribute to AzureInnovationDay
development by creating an account on
GitHub.



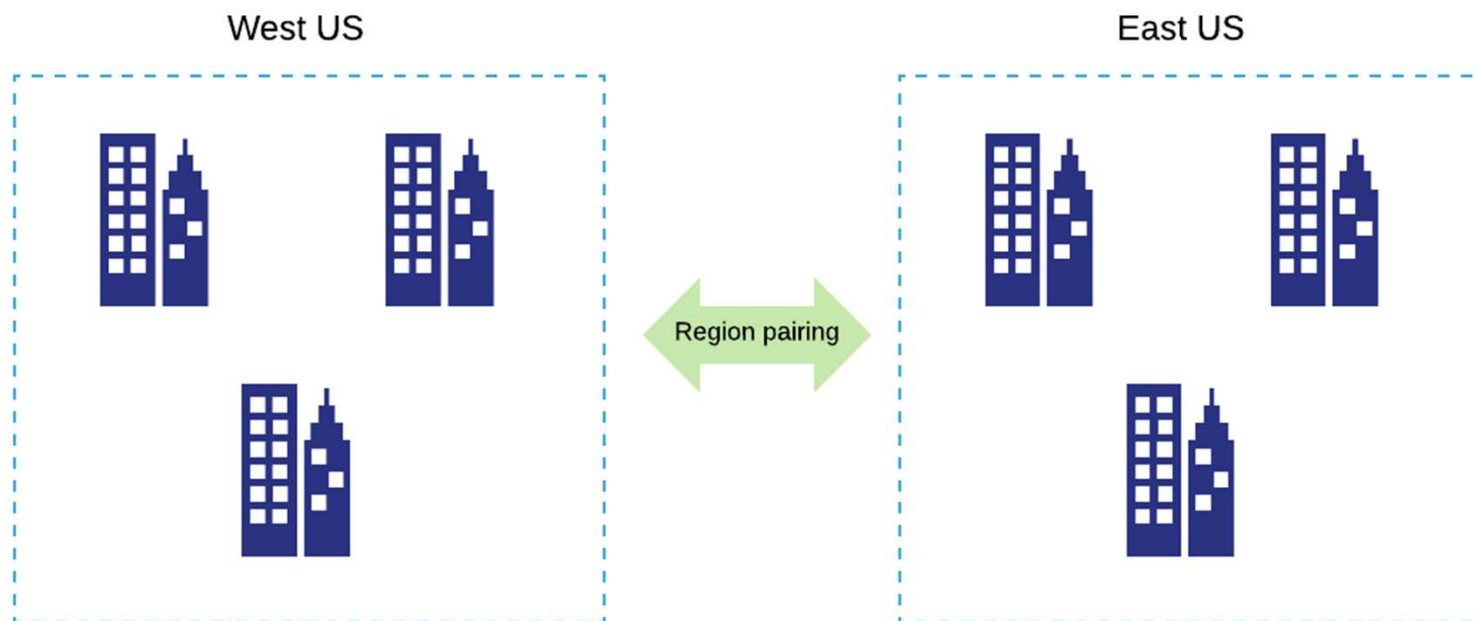
Resource Groups & Regions

50 regions
worldwide

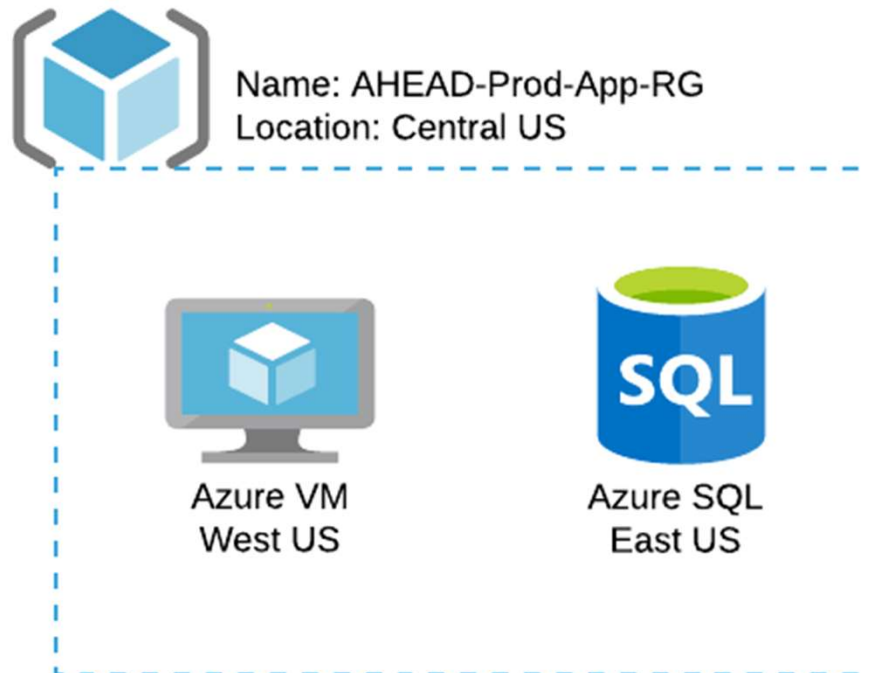
140 available in
140 countries



Regions Overview

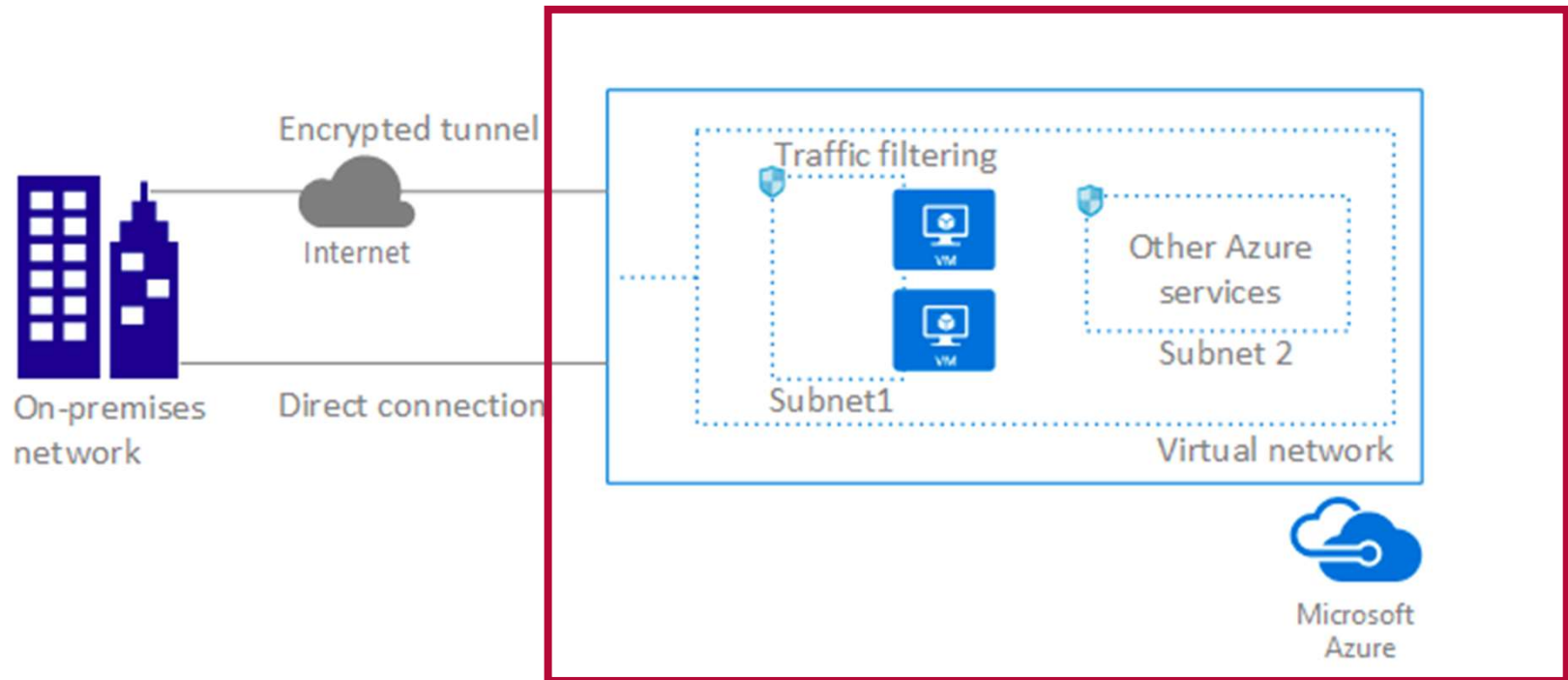


Resource Group Overview



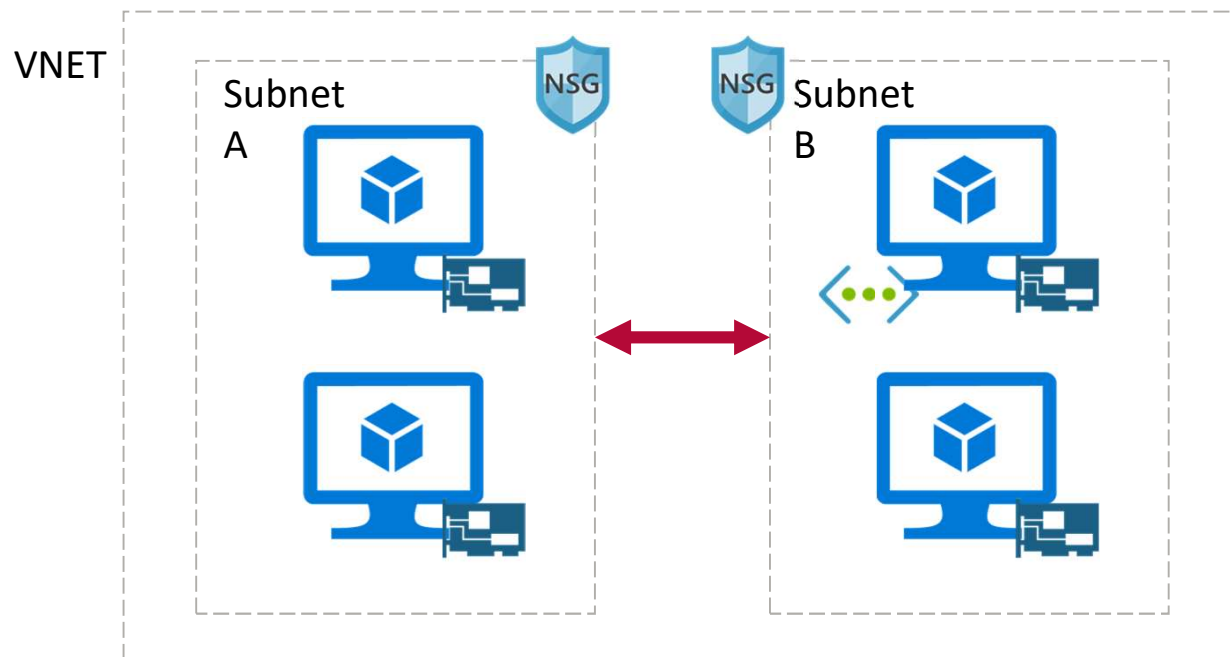
Networking

Networking Overview



Source: <https://docs.microsoft.com/en-us/azure/virtual-network/virtual-networks-overview>

Networking Overview



Core VNET Capabilities

- Isolation
- Internet Access
- Azure Resources (VMs and Cloud Services)
- VNET Connectivity
- On-Premises Connectivity
- Traffic Filter
- Routing

IP Addressing

- DHCP - Azure provided/managed service
- All addresses are DHCP based
- Addresses are not allocated until Azure object is created
- Addresses are recovered when object is deallocated

IP Addressing (cont.)

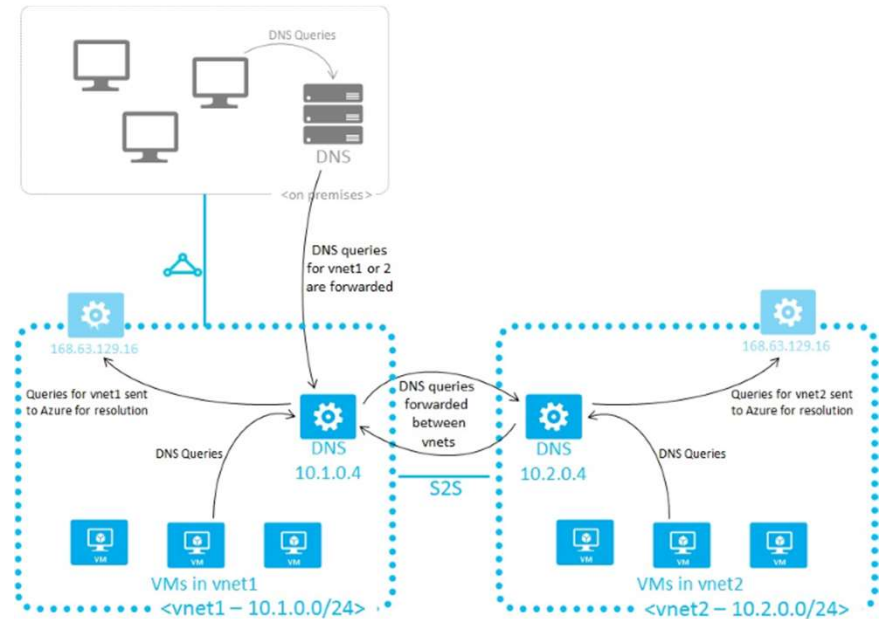
- Static addresses are the equivalent DHCP reservations
- Address prefix comes from VNET/subnet definitions
- Azure reserves the first three and the last IP from the pool
- First address of a /24 is .4

DNS in Azure

Azure provided DNS

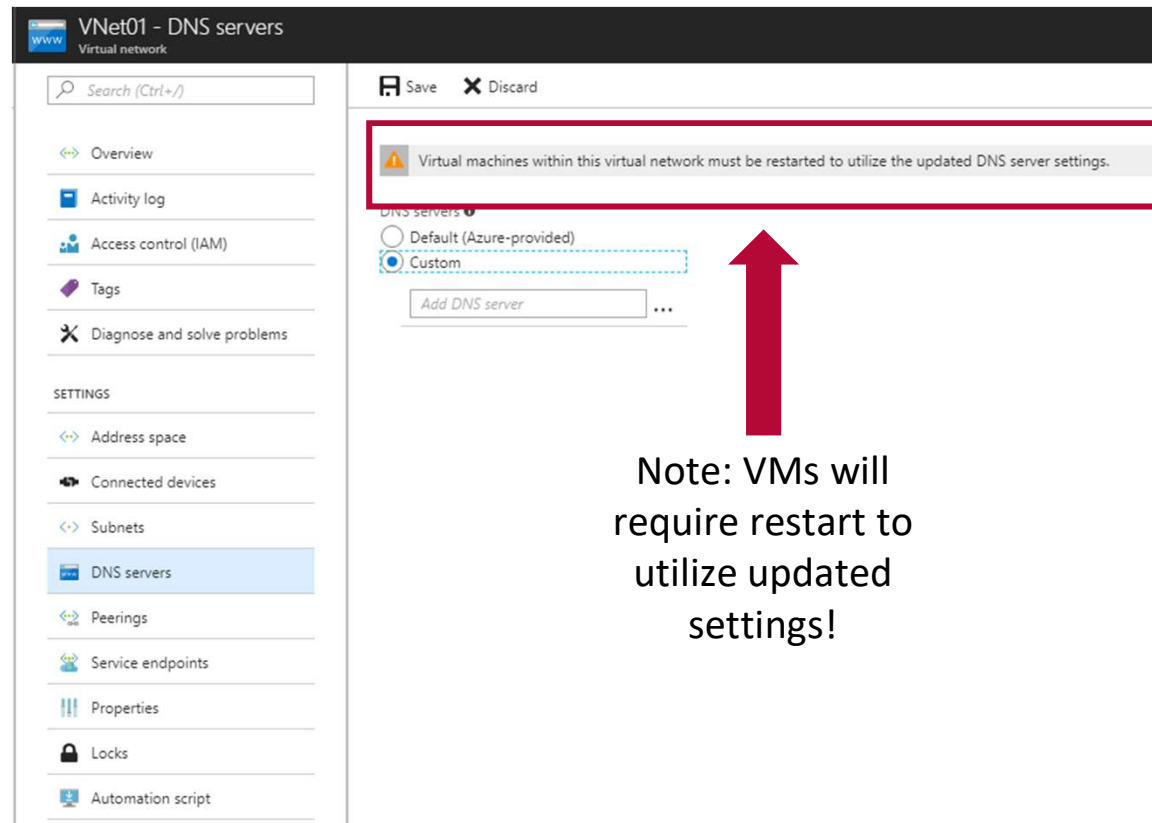


Customer DNS Server



Configure Virtual Networking DNS

- **Select** Virtual Network in Azure
- **Select** DNS Servers from the **Settings** section
- Choose **Default** (Azure-Provided) to stick with Azure DNS
- Choose **Custom** to input your own DNS Servers
- **Add DNS Servers** (preferably more than 1)
- **Save**



Note: VMs will
require restart to
utilize updated
settings!

Internet Access

All resources in a VNET can communicate to the internet by default

Private IP is SNAT to a Public IP selected by Azure

Outbound connectivity can be restricted via routes or traffic filtering

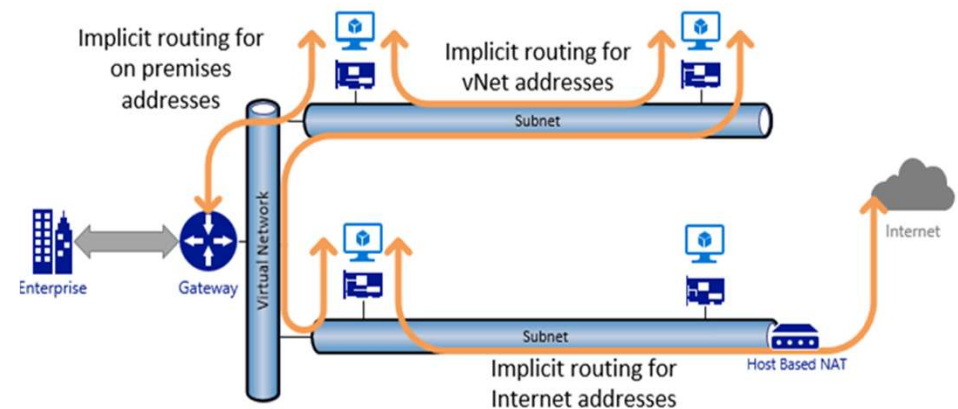
Inbound connectivity without SNAT requires public IP



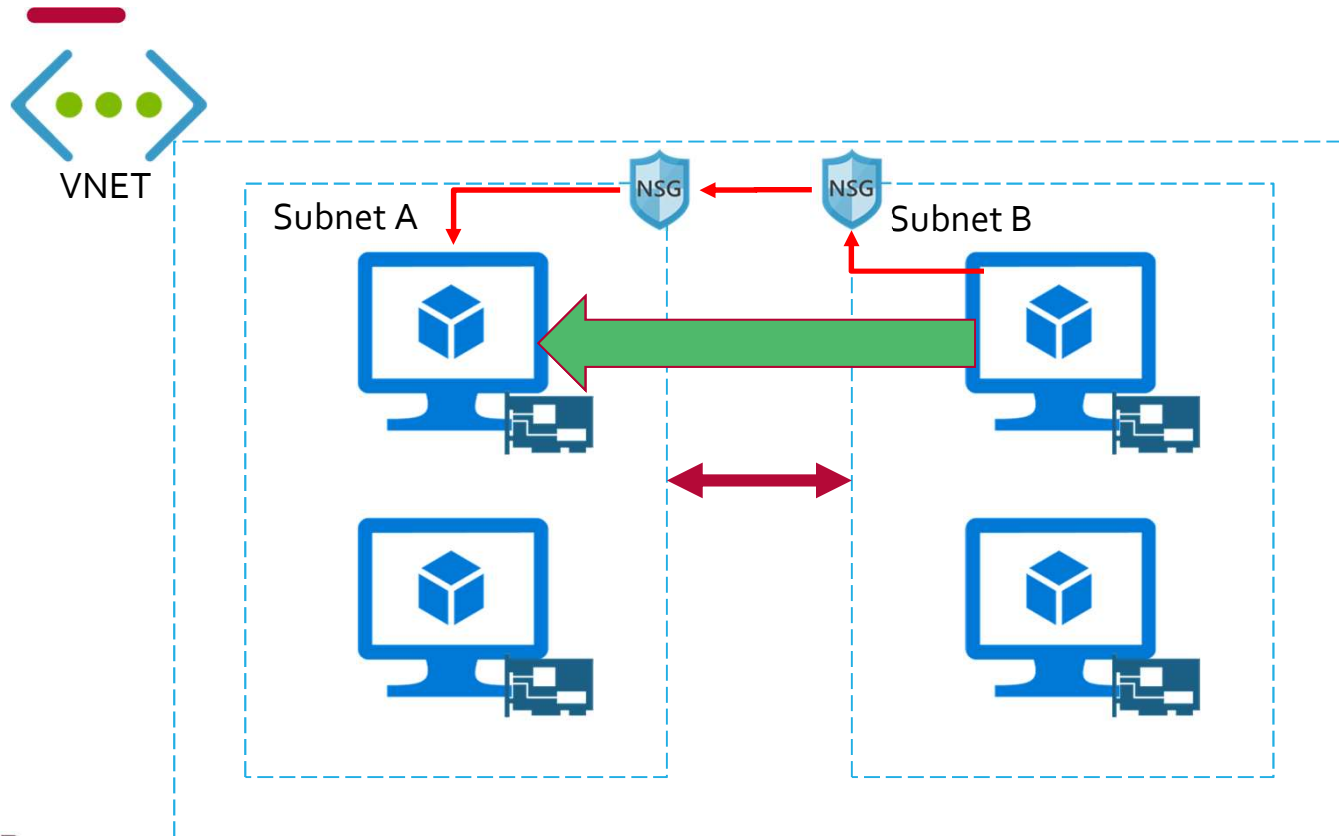
Routing and NSGs

Default Routing in a Subnet

- If address is within the VNET address prefix – route to local VNET
- If the address is within the on premises address prefixes or BGP published routes (BGP or Local Site Network (LSN) for S2S) – route to gateway
- If the address is not part of the VNET or the BGP or LSN routes – route to Internet via NAT
- If destination is an Azure datacenter address and ER public peering is enabled, it is routed to the gateway.
- If the destination is an Azure datacenter with S2S or an ER without public peering enabled, then it is routed to the Host NAT for Internet path, but it never leaves the datacenter



Network Security Groups (NSGs)



- Can be applied to Network Interface or Subnet
- Subnet rules apply to ALL resources in subnet

NSG Default Rules



Inbound default rules

Name	Priority	Source IP	Source Port	Destination IP	Destination Port	Protocol	Access
AllowVNet InBound	65000	VirtualNetwork	*	VirtualNetwork	*	*	Allow
AllowAzure LoadBalancer InBound	65001	AzureLoad Balancer	*	*	*	*	Allow
DenyAll InBound	65500	*	*	*	*	*	Deny

NSG Default Rules



Outbound default rules

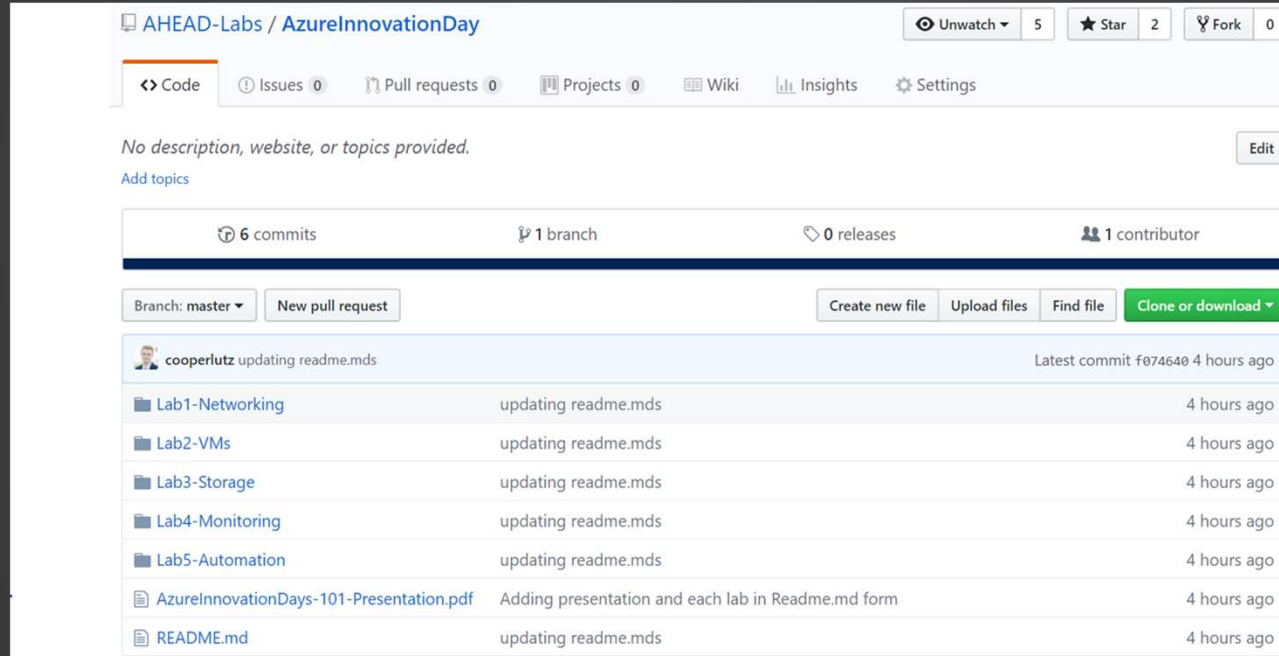
Name	Priority	Source IP	Source Port	Destination IP	Destination Port	Protocol	Access
AllowVnet OutBound	65000	VirtualNetwork	*	VirtualNetwork	*	*	Allow
AllowInternet OutBound	65001	*	*	Internet	*	*	Allow
DenyAll OutBound	65500	*	*	*	*	*	Deny



LAB | Networking

Lab1-Networking

<https://github.com/AHEAD-Labs/AzureInnovationDay>



AHEAD-Labs / AzureInnovationDay

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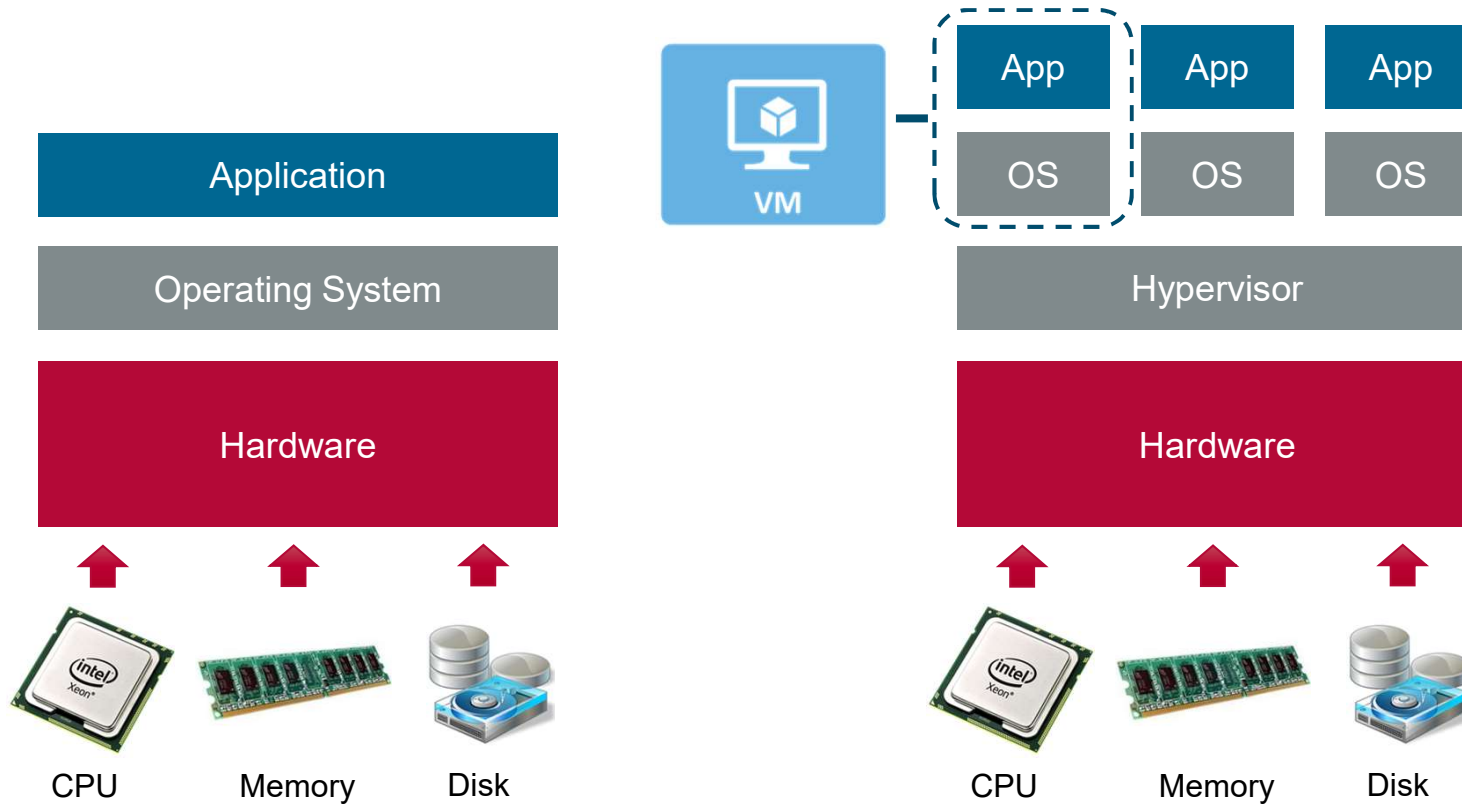
cooperlutz	updating readme.mds	Latest commit f074640 4 hours ago
Lab1-Networking	updating readme.mds	4 hours ago
Lab2-VMs	updating readme.mds	4 hours ago
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AzureInnovationDays-101-Presentation.pdf	Adding presentation and each lab in Readme.md form	4 hours ago
README.md	updating readme.mds	4 hours ago

Virtual Machines



Azure VM Overview

Introduction to Virtual Machines



VM Types



Type	Purpose
A - Basic	Basic version of the A series for testing and development.
A – Standard	General-purpose VMs.
B – Burstable	Burstable instances that can burst to the full capacity of the CPU when needed.
D – General Purpose	Built for enterprise applications. DS instances offer premium storage.
E – Memory Optimized	High memory-to-CPU core ratio. ES instances offer premium storage.
F – CPU Optimized	High CPU core-to-memory ratio. FS instances offer premium storage.
G - Godzilla	Very large instances ideal for large databases and big data use cases.

VM Types (Continued)



Type	Purpose
H – High performance compute	High performance compute instances aimed at very high-end computational needs such as molecular modelling and other scientific applications.
L – Storage optimized	Storage optimized instances which offer a higher disk throughput and IO.
M – Large memory	Another large-scale memory option that allows for up to 3.5 TB of RAM.
N – GPU enabled	GPU-enabled instances.
SAP HANA on Azure Certified Instances	Specialized instances purposely built and certified for running SAP HANA.

VM Specializations



S

Premium Storage
options available

Example: DSv2

M

Larger memory
configuration of
instance type

Example: Standard
A2m_v2

R

Supports remote
direct memory
access (RDMA)

Example: H16mr

Azure Compute Units (ACUs)

Way to compare
CPU performance
between different
types/sizes of VM

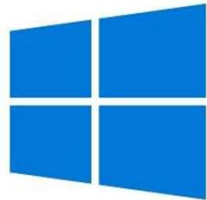
Microsoft
created
performance
benchmark

A VM with an
ACU of 200 has
twice the
performance of a
VM with an ACU
of 100

OS Reference Documentation

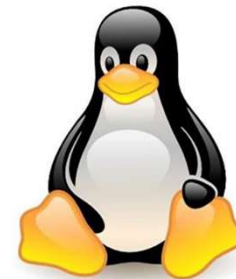
- Windows Virtual Machines

<https://docs.microsoft.com/en-us/azure/virtual-machines/windows/>



- Linux Virtual Machines

<https://docs.microsoft.com/en-us/azure/virtual-machines/linux/>



Windows Server Support

OS	Key Points
Pre-Windows 2008 R2 (e.g. Windows Server 2003)	<ul style="list-style-type: none">•Windows 2003 and later are supported for deployment.•Must bring own image.•No marketplace support.•Need to have your own custom support agreement (CSA).
Windows Server 2008 R2	<ul style="list-style-type: none">•Supported.•Specific support matrix for server roles.
Windows Server 2012	<ul style="list-style-type: none">•Supported – Datacenter version in marketplace.
Windows Server 2016	<ul style="list-style-type: none">•Supported – Datacenter and nano versions in marketplace.
Desktop OS	<ul style="list-style-type: none">•Windows 10 Pro and Enterprise in marketplace.

<https://support.microsoft.com/en-us/help/2721672/microsoft-server-software-support-for-microsoft-azure-virtual-machines>

Linux-Supported Distributions

Distribution	Version	Drivers	Agent
CentOS	CentOS 6.3+, 7.0+	CentOS 6.3: LIS download CentOS 6.4+: In kernel	Package: In repo under "WALinuxAgent" Source code: GitHub
CoreOS	494.4.0+	In kernel	Source code: GitHub
Debian	Debian 7.9+, 8.2+	In kernel	Package: In repo under "waagent" Source code: GitHub
Oracle Linux	6.4+, 7.0+	In kernel	Package: In repo under "WALinuxAgent" Source code: GitHub
Red Hat Enterprise Linux	RHEL 6.7+, 7.1+	In kernel	Package: In repo under "WALinuxAgent" Source code: GitHub
SUSE Linux Enterprise	SLES/SLES for SAP 11 SP4 12 SP1+	In kernel	Package: for 11 in Cloud:Tools repo for 12 included in "Public Cloud" Module under "python-azure-agent" Source code: GitHub
openSUSE	openSUSE Leap 42.2+	In kernel	Package: In Cloud:Tools repo under "python-azure-agent" Source code: GitHub

<https://docs.microsoft.com/en-us/azure/virtual-machines/linux/endorsed-distros>

Regional Limitations

Products	NON-REGIONAL*	United States							Canada		
		EAST US	EAST US 2	CENTRAL US	NORTH CENTRAL US	SOUTH CENTRAL US	WEST CENTRAL US	WEST US	WEST US 2	CANADA EAST	CANADA CENTRAL
- Compute											
Virtual Machines		●	●	●	●	●	●	●	●	●	●
A0 - A7		●	●	●	●	●	●	●	●	●	●
Av2		●	●	●	●	●	●	●	●	●	●
B-series		●							●		
A8 – A11 (Compute Intensive)		●			●	●		●			
D-series		●	●	●	●	●		●			
Dv2-series		●	●	●	●	●	●	●	●	●	●
Dv3-series		●	●					●	●	●	●
DS-series		●	●	●	●	●		●			
DSv2-series		●	●	●	●	●	●	●	●	●	●
DSv3-Series		●	●						●		
Ev3-series		●	●					●	●	●	●
F-series		●	●	●	●	●	●	●	●	●	●

VM Images

- Custom Images

- Do-it-yourself image
- Windows - Sysprep
- Linux - sudo waagent –
deprovision+user
- Generalize in Azure
- Create image

- Marketplace Images

- Provided for you in the Azure Marketplace
- Properties:
 - Publisher
 - Offer
 - SKU

PowerShell VM Commands

Task	PowerShell Example
New Resource Group	<code>New-AzureRmResourceGroup -Name myResourceGroup -Location EastUS</code>
New Virtual Machine	<code>New-AzureRmVM</code>
Must provide names for each of the required resources:	
Create VM Configuration	<code>\$vm = NewAzureRmVMConfig - VMName \$Vmname</code>
<code>-Name "SL-VM01"</code> <code>-Location "East US"</code> <code>-VirtualNetworkName "SLVNET"</code>	
Start and Stop VMs	<code>Start-AzureRmVM</code> <code>Stop-AzureRmVM</code>
<code>-OpenPorts 80,3389</code>	



VM Storage

VM Storage Types

- Standard Storage

Backed by traditional HDD

Most cost effective

Max throughput – 60MB/S
per disk

Max IOPS –
500 IOPS per disk

- Premium Storage

Backed by SSD drives

Higher performance

Max throughput –
250MB/S per disk

Max IOPS –
7500 IOPS per disk

Managed Disk – Standard Storage Sizes

	S4	S6	S10	S20	S30	S40	S50
Disk size (GB)	32	64	128	512	1024	2048	4095



- Max IOPS for all sizes above is 300 IOPS/Disk
- Max throughput for all sizes is 60MB/s

Managed Disk – Premium Storage Sizes

	P4	P6	P10	P15	P20	P30	P40	P50
Disk size (GB)	32	64	128	256	512	1024	2048	4095
Max IOPS	120	240	500	1100	2300	5000	7500	7500
Max throughput	25 MB/s	50 MB/s	100 MB/s	125 MB/s	150 MB/s	200 MB/s	250 MB/s	250 MB/s

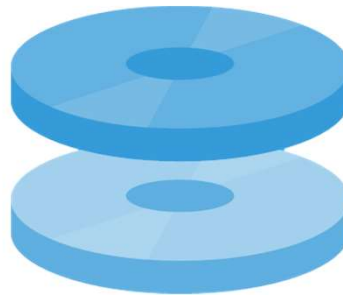
Managed vs. Unmanaged Disks

Unmanaged Disks

DIY option

Management overhead
(20000 IOPS per storage
account limit)

Supports all replication modes
(LRS, ZRS, GRS, RA-GRS)



Managed Disks

Simplest option

Lower management overhead
as Azure manages the
storage accounts

Only LRS replication mode
currently available

Replication Options

Logically Replicated Storage (LRS)

Replicated three times within a storage scale unit (collection of racks of storage nodes) hosted in a datacenter in the same region as your storage account was created.

Zone Replicated Storage (ZRS)

Replicated three times across one or two datacenters in addition to storing three replicas similar to LRS. Data stored in ZRS is durable even in the event that the primary datacenter is unavailable or unrecoverable.

Geographically Replicated Storage (GRS)

Replicates your data to a second region that is hundreds of miles away from the primary region. Your data is curable even in the event of a complete region outage.

Read Only Geographically Replicated Storage (RA-GRS)

Same replication as per GRS but also provides read access to the data in the other region.

Replication Options

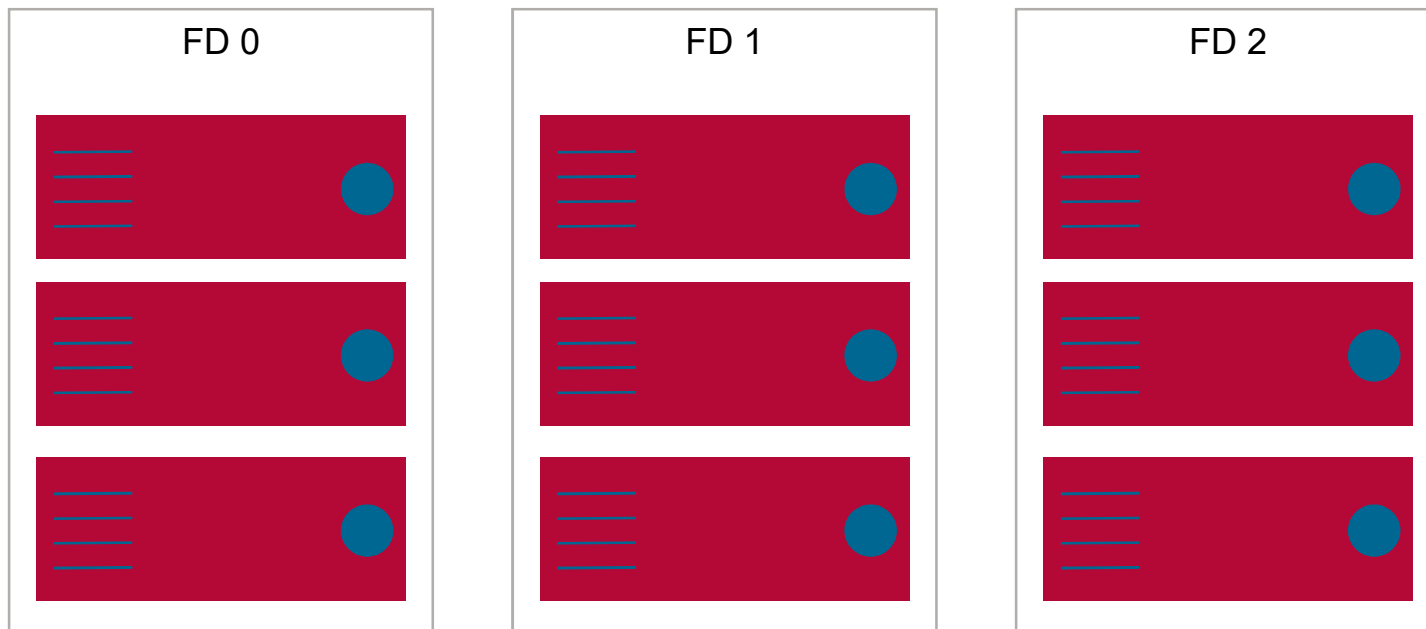
Replication Strategy	LRS	ZRS	GRS	RA-GRS
Data is replicated across multiple datacenters?	No	Yes	Yes	Yes
Data can be read from a secondary location <i>and</i> the primary location?	No	No	No	Yes
Number of copies of data maintained on separate nodes:	3	3	6	6

Availability Sets

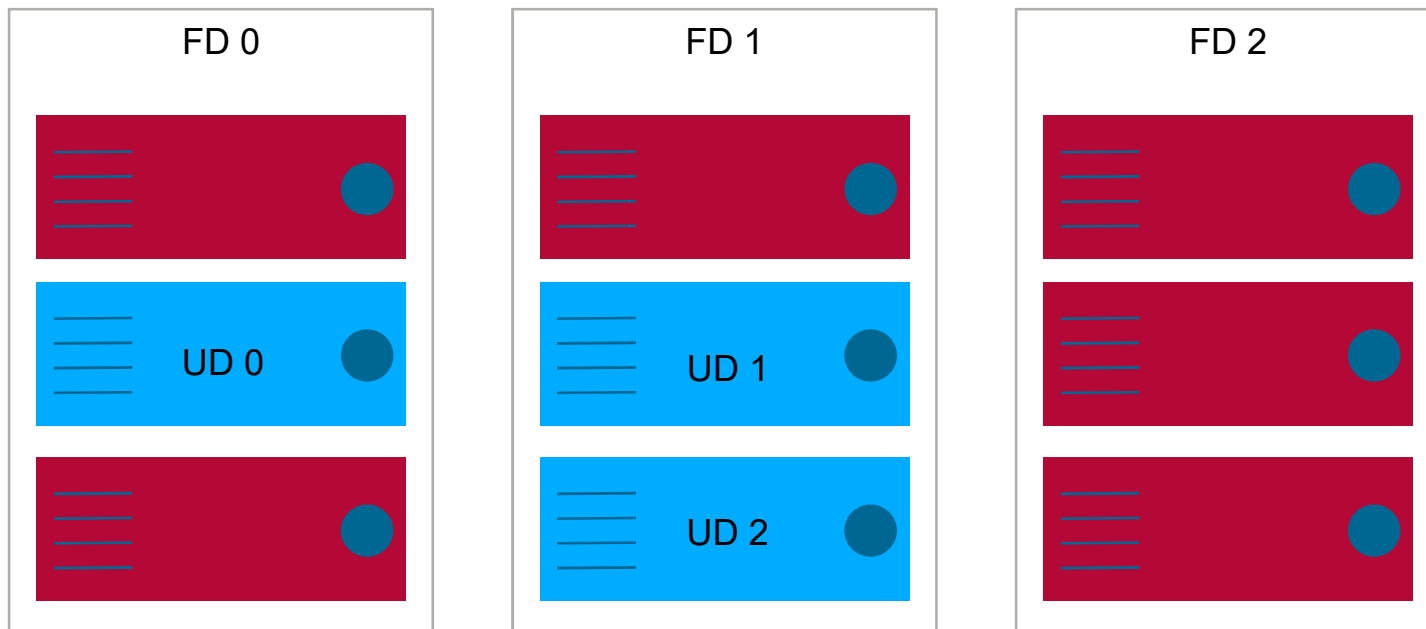
- Potential for VM Impact
- Planned maintenance
- Unplanned hardware maintenance
- Unexpected downtime

- Availability Sets
- Group two or more machines in a set
- Separated based on Fault Domains and Update Domains

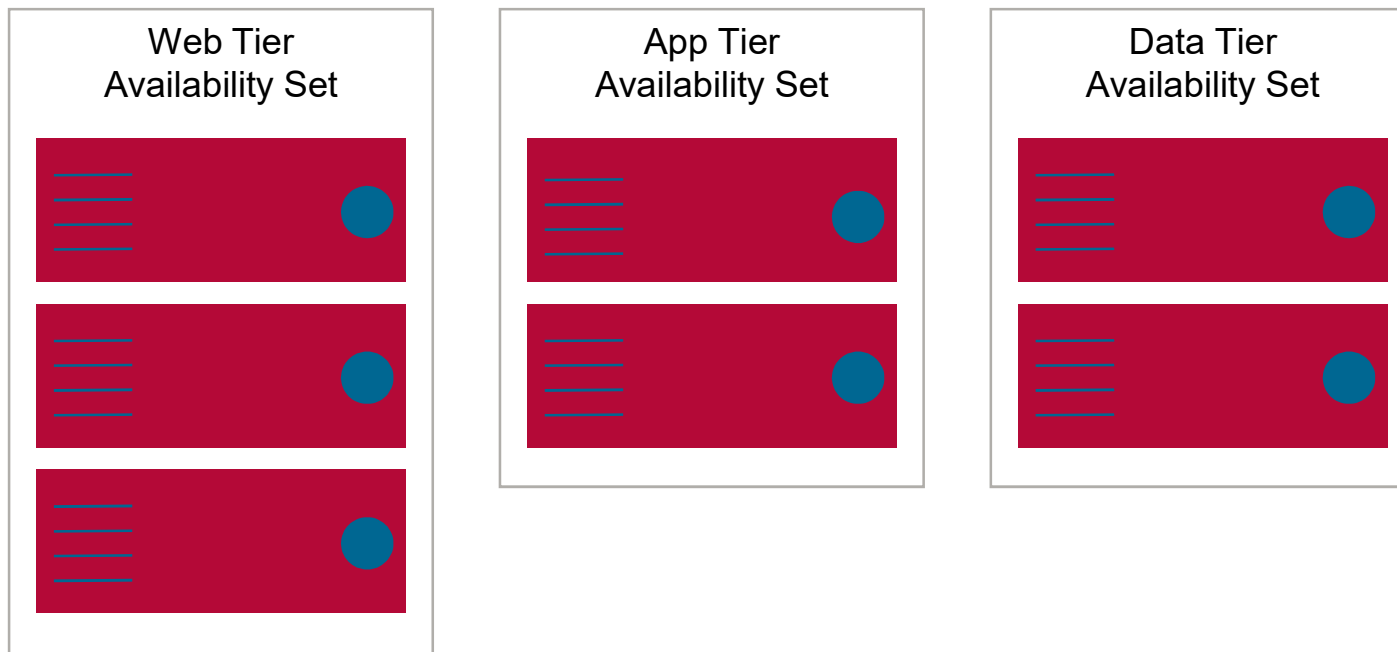
Fault Domains and Update Domains



Fault Domains and Update Domains



Planning for Availability





LAB

Azure Virtual Machines

Lab2-VMs

<https://github.com/AHEAD-Labs/AzureInnovationDay>

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Branch: master New pull request Create new file Upload files Find file Clone or download

cooperlutz updating readme.mds Latest commit f074640 4 hours ago

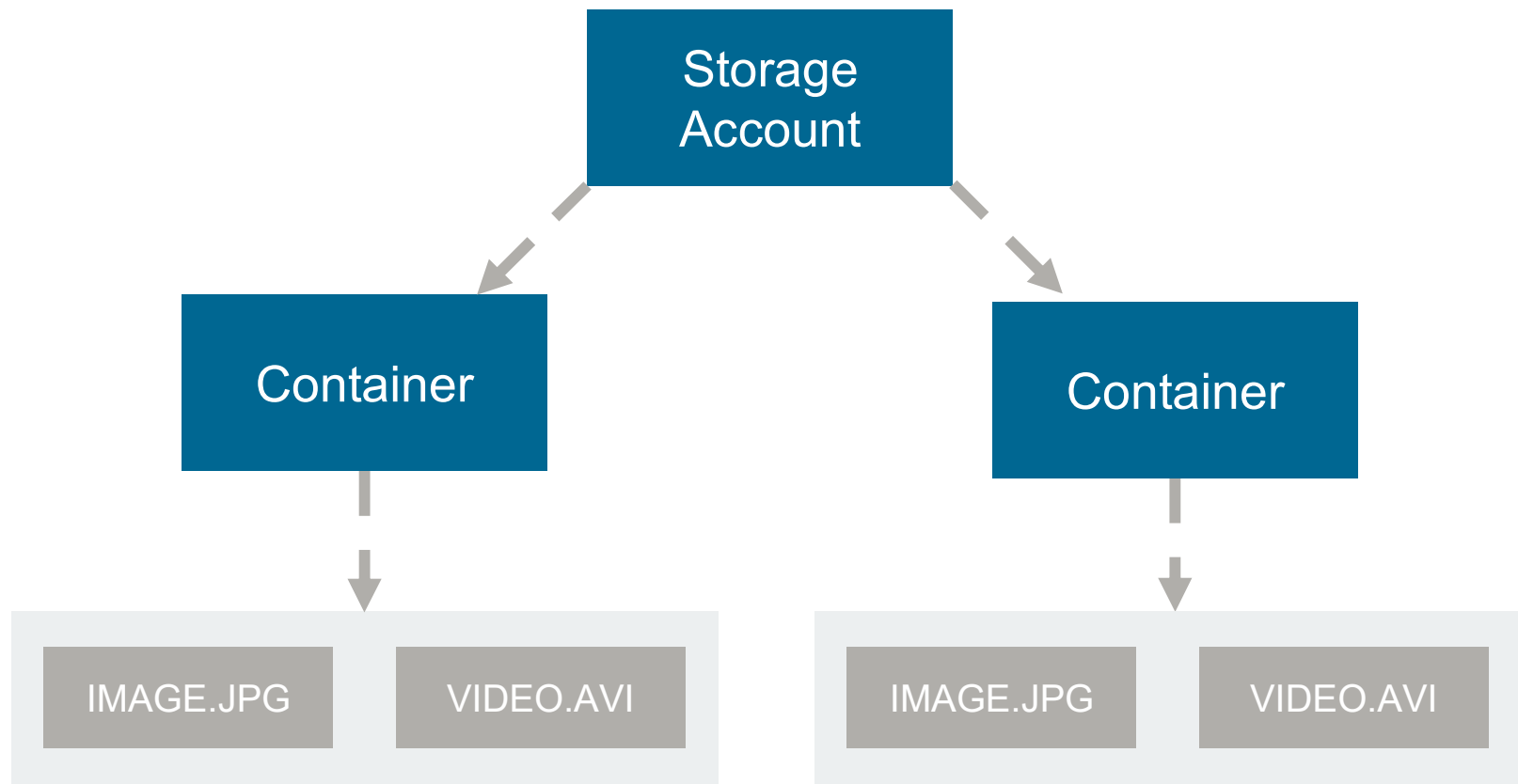
Lab1-Networking	updating readme.mds	4 hours ago
Lab2-VMs	updating readme.mds	4 hours ago
Lab3-Storage	updating readme.mds	4 hours ago
Lab4-Monitoring	updating readme.mds	4 hours ago
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AzureInnovationDays-101-Presentation.pdf	Adding presentation and each lab in Readme.md form	4 hours ago
README.md	updating readme.mds	4 hours ago

Storage



Storage Overview

Azure Blob Storage Overview



Storage Account Types

General
Purpose v1
(GPV1)

Blob Account

General
Purpose v2
(GPV2)

Block Blobs vs. Page Blobs

▪ Block Blob

- Ideal for storing text or binary files
- A single block blob can contain up to 50,000 blocks of up to 100 MB each, for a total size of 4.75 TB
- Append blobs are optimized for append operations (e.g. logging)

▪ Page Blob

- Efficient for read/write operations
- Used by Azure VMs
- Up to 8 TB in size

Storage Tiers

Hot

- Higher storage costs
- Lower access costs

Cold

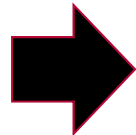
- Lower storage costs
- Higher access costs
- Intended for data that will remain cool for 30 days or more

Archive

- Lowest storage costs
- Highest retrieval costs
- When a blob is in archive storage it is offline and cannot be read

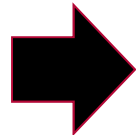
Choosing Between Blobs, Files, and Disks

Blobs



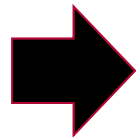
- Access application data from anywhere
- Large amount of objects to store, images, videos etc.

Files



- Access files across multiple machines
- Jumpbox scenarios for shared development scenarios

Disks



- Do not need to access the data outside of the VM
- Lift-and-shift of machines from on-premises
- Disk expansion for application installations



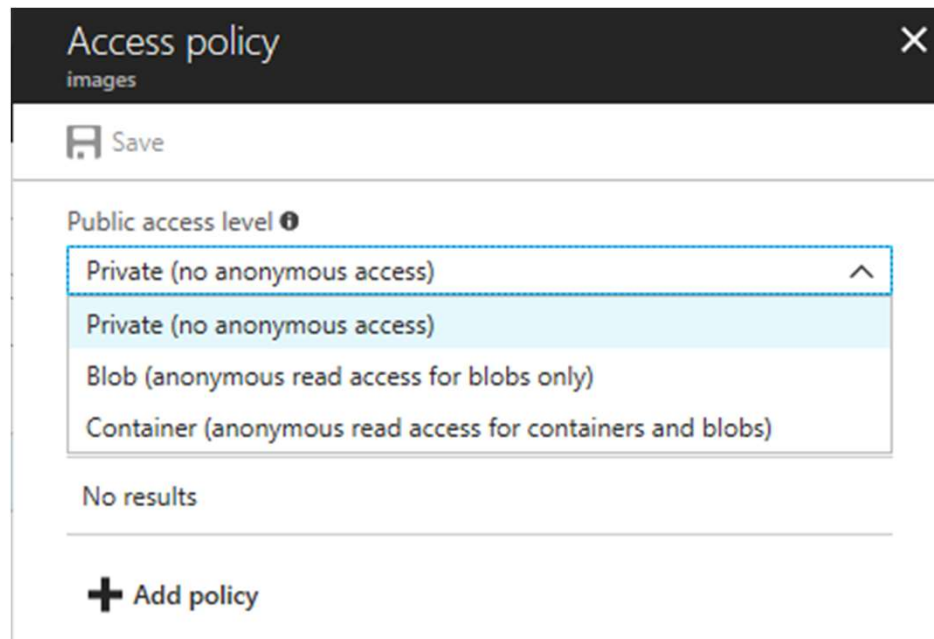
Storage Permissions

Managing Access: Container Permissions

Private
(No Anonymous Access)

Blob
(Anonymous read access
for blobs only)

Container
(Anonymous read access
for containers and blobs)



The screenshot shows a 'Access policy' dialog box for a resource named 'images'. At the top, there is a 'Save' button. Below it, the 'Public access level' is set to 'Private (no anonymous access)'. A dropdown menu is open, showing four options: 'Private (no anonymous access)' (selected), 'Private (no anonymous access)', 'Blob (anonymous read access for blobs only)', and 'Container (anonymous read access for containers and blobs)'. Below the dropdown, it says 'No results'. At the bottom, there is a '+ Add policy' button.

Access policy
images

Save

Public access level ⓘ

- Private (no anonymous access) ^
- Private (no anonymous access)
- Blob (anonymous read access for blobs only)
- Container (anonymous read access for containers and blobs)

No results

+ Add policy

Managing Access: SAS Overview

Shared Access Signature (SAS)

- It is a query string that we add on to the URL of a storage resource.
- The string informs Azure what access should be granted.

Account SAS Tokens

- Granted at the account level to grant permissions to services within the account.

Service SAS Tokens

- Grants access to a specific service within a Storage Account.

Encrypted

- Utilizes hash-based message authentication

SAS Breakdown

Storage Resource URI

<https://slsasdemo.blob.core.windows.net/images/image.jpg>

SAS Token

?sv=2017-07-29&ss=bfqt&srt=sco&sp=rwdlacup&se=2018-02-24T01:21:26Z&st=2018-02-23T17:21:26Z&spr=https&sig=dctAWsi39LncBNC1ZRn%2FQMjMMA5CPByLzagfsF7MVYc%3D

SAS Breakdown

- `https://sldsasdemo.blob.core.windows.net/images/image.jpg`
- `sv=2017-07-29`
- `ss=bfqt`
- `srt=sco`
- `sp=rwdlacup`
- `se=2018-02-24T01:21:26Z&st=2018-02-23T17:21:26Z`
- `spr=https`
- `sig=dctAWsi39LncBNC1ZRn%2FQMjMMA5CPByLzagfsF7MVYc%3D`

The Blob

Storage Service Version

Signed Services

Signed Resource Types

Signed Permission

Signed Expiry & Start

Signed Protocol

Signature



LAB | Storage

Lab3-Storage

<https://github.com/AHEAD-Labs/AzureInnovationDay>

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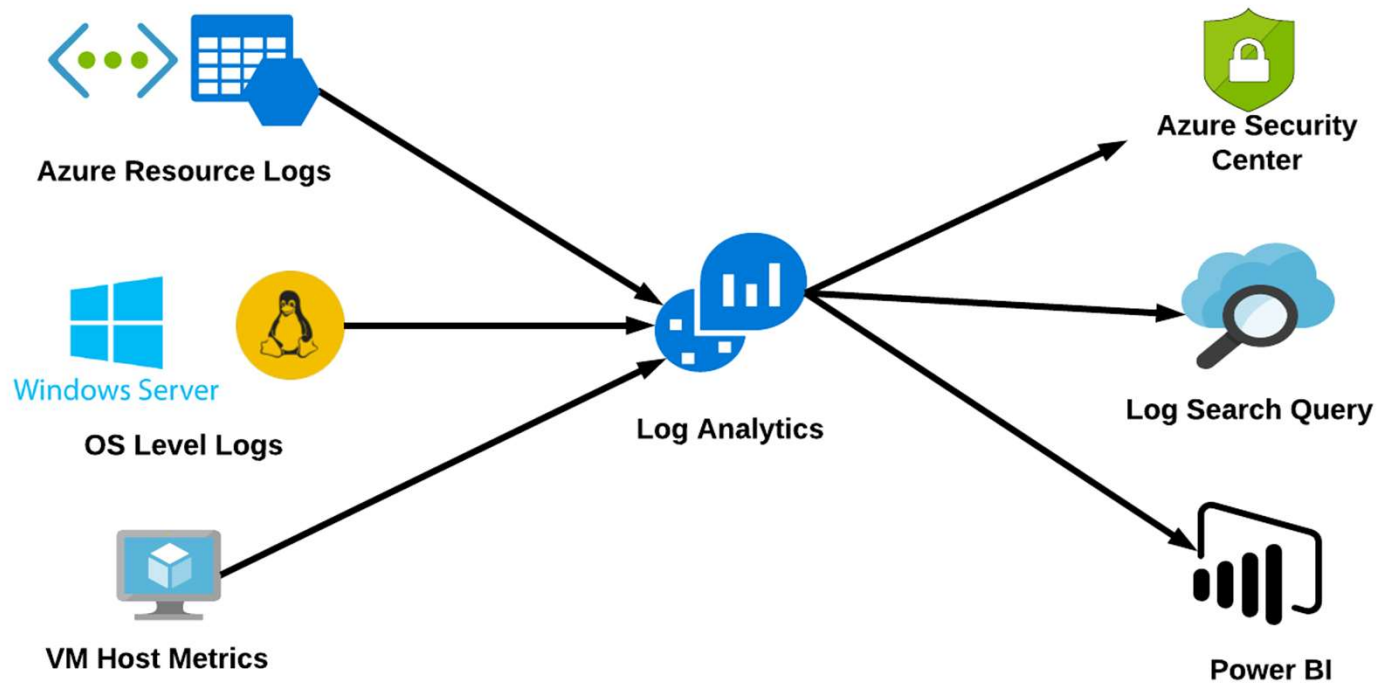
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Operations and Monitoring

Azure Log Analytics

- Collects data from Azure IaaS, PaaS, and On-Prem resources
- Create Alerts or take action on Log Search query results
- Serves as base framework for existing and upcoming Azure Features
 - Azure Security Center relies on OMS
- Enhances Automation and Operational tasks within Azure environment
- Integration with SCOM and ITSM solutions

Log Analytics Architecture



Log Analytics Solutions

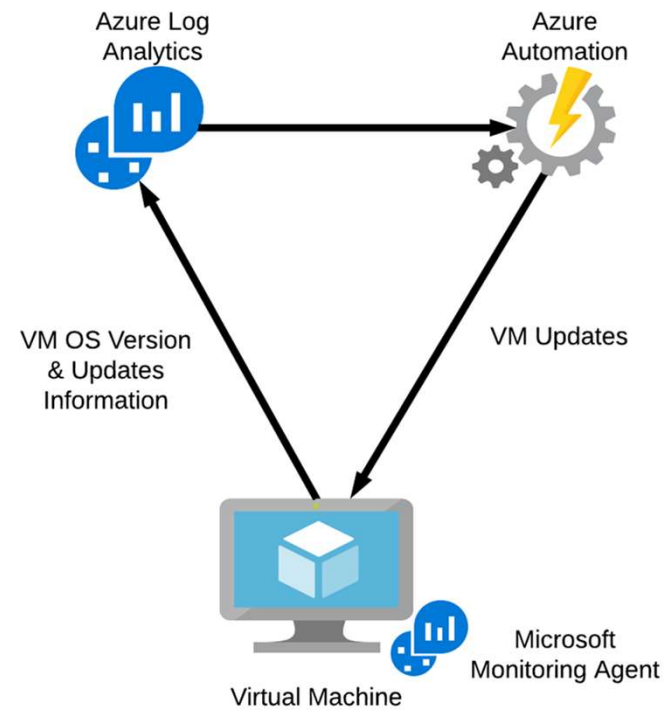
- Solutions provide feature sets built on top of the data collected by Log Analytics.

Common Solutions

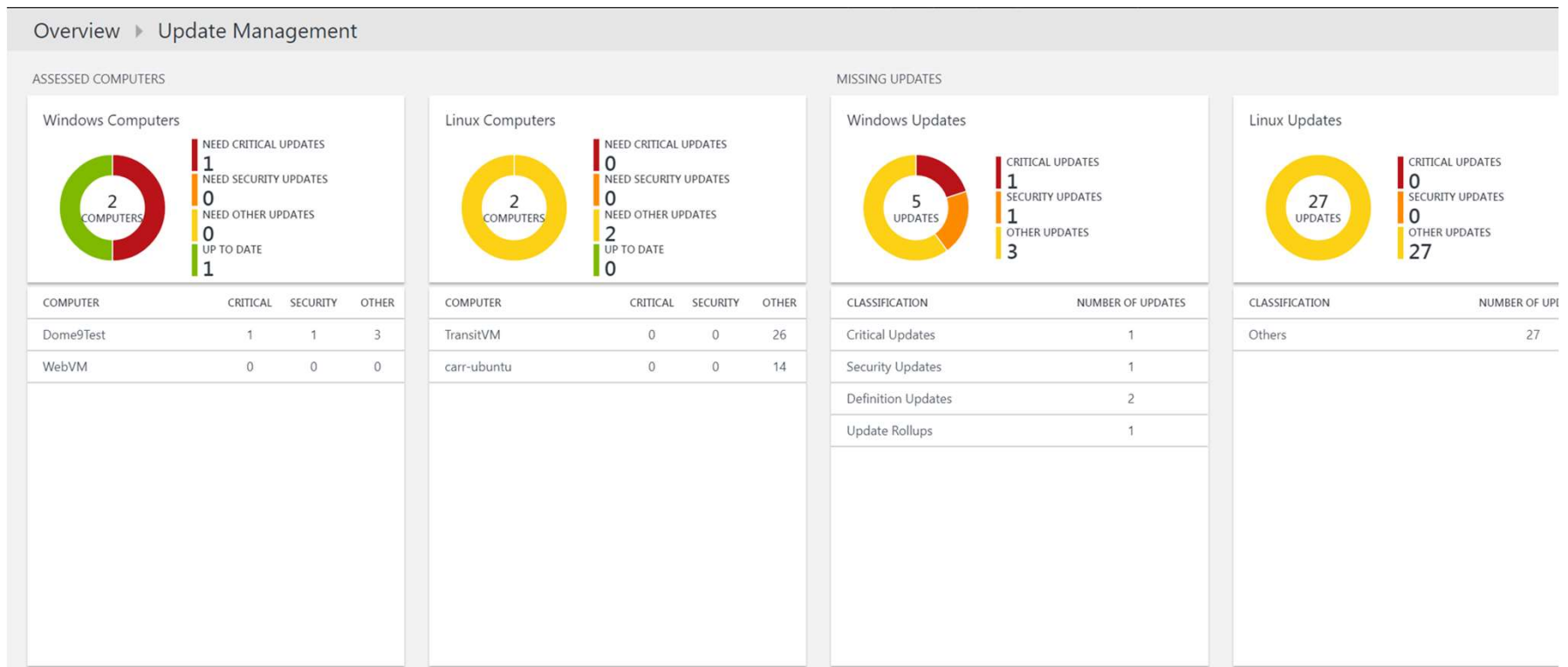
- Update Management
- Antimalware
- Change Tracking
- Network Monitoring
- Activity Log Analytics
- Security and Audit

OMS Solutions: Update Management

- Integrates with Azure Automation Account.
- Apply scheduled update times
- Target a computer or group of computers
- Blacklist specific update KB numbers



OMS Solutions: Update Management



Windows Updates

5 UPDATES

- 1 CRITICAL UPDATES
- 1 SECURITY UPDATES
- 1 OTHER UPDATES
- 3 UP TO DATE

CLASSIFICATION	NUMBER OF UPDATES
Critical Updates	1
Security Updates	1
Definition Updates	2
Update Rollups	1

Linux Updates

27 UPDATES

- 0 CRITICAL UPDATES
- 0 SECURITY UPDATES
- 0 OTHER UPDATES
- 27 UP TO DATE

CLASSIFICATION	NUMBER OF UPDATES
Others	27



Security Center

Azure Security Center Overview

Centralized
Policy
Management

Continuous
Security
Assessment

Recommended
Actions

Advanced
Cloud Defenses

Prioritized
Alerts and
Incidents

Integrated
Security
Solutions

Lab4-Monitoring

<https://github.com/AHEAD-Labs/AzureInnovationDay>

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Lab3-Storage	updating readme.mds	4 hours ago
Lab4-Monitoring	updating readme.mds	4 hours ago
Lab5-Automation	updating readme.mds	4 hours ago
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Automation



ARM Overview

ARM Templates Overview

```
{
  "$schema": "http://schema.management.azure.com/schemas/2015-01-01/deploymentTemplate.json#",
  "contentVersion": "1.0.0.0",
  "parameters": {
  },
  "variables": {
  },
  "resources": [
    {
      "name": "[concat('storage', uniqueString(resourceGroup().id))]",
      "type": "Microsoft.Storage/storageAccounts",
      "apiVersion": "2016-01-01",
      "sku": {
        "name": "Standard_LRS"
      },
      "kind": "Storage",
      "location": "North Central US",
      "tags": {},
      "properties": {}
    }
  ],
  "outputs": { }
}
```



Resource
(E.g. Storage Account)

- Apply Infrastructure as Code
- Download templates from Azure Portal
- Author new templates
- Use Quickstart templates, provided by Microsoft

Quickstart Templates

Microsoft Azure

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FREE ACCOUNT

Azure Quickstart Templates

Deploy Azure resources through the Azure Resource Manager with community contributed templates to get more done. Deploy, learn, fork and contribute back.

What is Azure Resource Manager

Azure Resource Manager allows you to provision your applications using a declarative template. In a single template, you can deploy multiple services along with their dependencies. You use the same template to repeatedly deploy your application during every stage of the application lifecycle.

[Learn more](#)

641 Quickstart templates are currently in the gallery.

Most popular [See All](#)

- Create VM from existing VHDs and connect it to existing VNET**
This template creates a VM from VHDs (OS + data disk) and let you connect it to an existing VNET that can reside in another Resource Group then the virt...
by Mikael Mottet
Last updated: 11/25/2016
- Create an Azure VM with a new AD Forest**
This template creates a new Azure VM, it configures the VM to be an AD DC for a new Forest
by Simon Davies
Last updated: 4/21/2017
- Blockchain Template**
Deploy a VM with blockchain software.
by Neil Sant Gati
Last updated: 10/11/2016
- Blockchain - Ethereum Private Consortium Network**
This template fully automates the provisioning of necessary Azure resources like VMs, storage, network settings etc. as well as the configurati...
by Christine Avanesians
Last updated: 9/26/2016
- Create a V2 data factory**
- Basic RDS farm deployment**
- Create a new AD Domain with 2 Domain Controllers**
- Join a VM to an existing domain**

<https://azure.microsoft.com/en-us/resources/templates/>

<https://github.com/Azure/azure-quickstart-templates>

ARM File Types

ARM Template File

Describe the configuration of your infrastructure via a JSON file

ARM Template Parameter File

Separate your parameters (optional)

Deployment Scripts

E.g. PowerShell for Deployment

ARM Template Constructs

Parameters

Define the inputs you want to pass into the ARM template during deployment.

Variables

Values that you can use throughout your template. Used to simplify your template by creating reuse of values.

Resources

Define the resources you wish to deploy or update.

Outputs

Specify values that are returned after the ARM deployment is completed.

Lab5-Automation

<https://github.com/AHEAD-Labs/AzureInnovationDay>

AHEAD-Labs / AzureInnovationDay

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 **Thank You**



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