

Lab 08 - Manage Virtual Machines

Student lab manual

Task 3: Scale compute and storage for Azure virtual machines

az104-08-vm0 | Size

Virtual machine

Search

Overview

Activity log

Access control (IAM)

Tags

Diagnose and solve problems

Settings

Networking

Connect

Windows Admin Center

If the virtual machine is currently running, changing its size will cause it to be restarted. Stopping the virtual machine may reveal additional sizes. →

Search by VM size...

vCPUs: All

RAM (GiB): All

Display cost: Monthly

Add filter

Showing 388 VM sizes

Subscription: Azure Pass - Sponsorship

Region: East US

Current size: Standard_DS1_v2

Learn more about VM sizes

Group by series

VM Size	Type	vCPUs	RAM (GiB)	Data disks	Max IOPS	Temp storage (GiB)	Premium dis
Most used by Azure users							
The most used sizes by users in Azure							
DS1_v2	General purpose	1	3.5	4	3200	7	Supported
D2s_v3	General purpose	2	8	4	3200	16	Supported
D2as_v4	General purpose	2	8	4	3200	16	Supported
B2s	General purpose	2	4	4	1280	8	Supported

az104-08-vm0 | Disks

Virtual machine

Search

Save

Discard

Refresh

Additional settings

Feedback

Troubleshoot

OS disk

Swap OS disk

Disk name	Storage type	Size (GiB)	Max IOPS	Max throughput (...)	Encryption	Host caching
az104-08-vm0_OsDisk_1_81d3a8fca9fb4	Premium SSD LRS	127	500	100	SSE with PMK	Read/write

Data disks

Filter by name

Showing 2 of 2 attached data disks

Create and attach a new disk

Attach existing disks

LUN	Disk name	Storage type	Size (GiB)	Max IOPS	Max throughput (...)	Encryption	Host caching
0	az104-08-vm0-datadis...	Premium SSD (L...	1024	5000	200	Platform-managed k...	Read-only
1	az104-08-vm0-datadis...	Premium SSD (L...	1024	5000	200	Platform-managed k...	Read-only

az104-08-vm0 | Run command ☆ ...

Virtual machine

Search

Properties

Locks

Operations

Bastion

Auto-shutdown

Backup

Disaster recovery

Updates

Inventory

Change tracking

Automanage

Configuration management (Preview)

Policies

Run command

Monitoring

Insights

Alerts

Now it's possible to execute multiple scripts at the same time, many thanks to the updated Run Command feature, now available through the Azure portal.

Run Command uses the VM agent to let you run a script inside this virtual machine for application maintenance. Select a command below to see details.

Name

RunPowerShellScript

DisableNLA

DisableWindowsUpdate

EnableAdminAccount

EnableEMS

EnableRemotePS

EnableWindowsUpdate

IPConfig

RDPSettings

ResetRDPcert

SetRDPport

RunPowerShellScript

Script execution complete

PowerShell Script

1 New-StoragePool -FriendlyName storagepool1 -StorageSubsystemFriendlyName "Windows Storage" -Ph
2
3 New-VirtualDisk -StoragePoolFriendlyName storagepool1 -FriendlyName virtualdisk1 -Size 2046GB -
4
5 Initialize-Disk -VirtualDisk (Get-VirtualDisk -FriendlyName virtualdisk1)
6
7 New-Partition -DiskNumber 4 -UseMaximumSize -DriveLetter Z

Run

Output

FriendlyName	OperationalStatus	HealthStatus	IsPrimordial	IsReadOnly	Size	AllocatedSize
storagepool1	OK	Healthy	False	False	2 TB	512 MB

ObjectID	: {1}\az104-08-vm0\root\Microsoft\Windows\Storage\Providers_v2\SPACE
S_VirtualDisk.Ob	jectId="{91cf48cc-cc34-11ed-8e88-806e6f6e6963}:VD:{cb502478-4e1c-46
1a-acfe-25a169d1	b506}{c0aeb421-7fba-4cd8-ac68-43c3ba7c09ad}"
PassThroughClass	:
PassThroughIds	:
PassThroughNamespace	:

Edit template ...

Edit your Azure Resource Manager template

Add resource Quickstart template Load file Download

Parameters (3)

Variables (0)

Resources (2)

[parameters('virtualMachines_az104_08_vm1_name')]

[concat(parameters('virtualMachines_az104_08_vm1_name'), 'CustomScriptExtension')]

(Microsoft.Compute/VirtualMachines)

```
24 "location": "eastus",
25 "zones": [
26   "1"
27 ],
28 "properties": {
29   "hardwareProfile": {
30     "vmSize": "Standard_DS1_v2"
31   },
32   "storageProfile": {
33     "imageReference": {
34       "publisher": "MicrosoftWindowsServer",
35       "offer": "WindowsServer",
36       "sku": "2019-datacenter-gensecond",
37       "version": "latest"
38     },
39     "osDisk": {
40       "osType": "Windows",
41       "name": "[concat(parameters('virtualMachines_az104_08_vm1_name'), '_OsDisk_1_baaidc3007c541e1a3c224b7449414a5')]",
42       "createOption": "FromImage",
43       "caching": "ReadWrite",
44       "managedDisk": {
45         "storageAccountType": "Premium_LRS",
46         "id": "[parameters('disks_az104_08_vm1_OsDisk_1_baaidc3007c541e1a3c224b7449414a5_externalid')]"
47       }
48     }
49   }
50 }
```

az104-08-vm1 | Run command ☆ ...

Virtual machine

Search

Properties

Locks

Operations

Bastion

Auto-shutdown

Backup

Disaster recovery

Updates

Inventory

Change tracking

Automanage

Configuration management (Preview)

Policies

Run command

Monitoring

Insights

Alerts

Now it's possible to execute multiple scripts at the same time, many thanks to the updated Run Command feature, now available through the Azure portal.

Run Command uses the VM agent to let you run a script inside this virtual machine for application maintenance. Select a command below to see details.

Name

RunPowerShellScript

DisableNLA

DisableWindowsUpdate

EnableAdminAccount

EnableEMS

EnableRemotePS

EnableWindowsUpdate

IPConfig

RDPSettings

ResetRDPcert

SetRDPport

RunPowerShellScript

Script execution complete

PowerShell Script

1 New-StoragePool -FriendlyName storagepool1 -StorageSubsystemFriendlyName "Windows Storage" -Ph
2
3 New-VirtualDisk -StoragePoolFriendlyName storagepool1 -FriendlyName virtualdisk1 -Size 2046GB -
4
5 Initialize-Disk -VirtualDisk (Get-VirtualDisk -FriendlyName virtualdisk1)
6
7 New-Partition -DiskNumber 4 -UseMaximumSize -DriveLetter Z

Run

Output

DiskNumber	: 4
DriveLetter	: Z
GptType	: {abd0a0a2-b9e5-4433-87c0-68b6b72699c7}
Guid	: {887e9f13-2148-486a-b2d3-d016915362dc}
IsActive	: False
IsBoot	: False
IsDAX	: False
IsHidden	: False
IsOffline	: False
IsReadOnly	: False
IsShadowCopy	: False
IsSystem	: False