

Practical Task 3: Deploy and Manage Virtual Machines using Azure CLI and PowerShell

Requirements:

- Use Azure CLI to create a new virtual machine named MyVM1 in a new resource group VMResourceGroup.
- Use Azure PowerShell to create another virtual machine named MyVM2 in the same resource group.
- Retrieve details about both virtual machines using both CLI and PowerShell.
- Stop MyVM1 using Azure CLI and MyVM2 using Azure PowerShell.
- Delete the virtual machines using the respective tools.

Practical Task 4: Manage Storage Accounts using Azure CLI and PowerShell

Requirements:

- Use Azure CLI to create a new storage account named mystoragecli in the East US region.
- Use Azure PowerShell to create a new storage account named mystorageps in the West Europe region.
- List all storage accounts in the subscription using both CLI and PowerShell.
- Retrieve the connection string for the mystoragecli storage account using Azure CLI.
- Retrieve the connection string for the mystorageps storage account using Azure PowerShell.

Терминал

```
OperationId : 8c77e917-87fa-4222-97c6-193bca0cadb2
Status      : Succeeded
StartTime   : 2/6/2025 1:06:02 PM
EndTime     : 2/6/2025 1:06:49 PM
Error       :
```

```
OperationId : d17488ca-1c0b-4709-b693-854e5209429c
Status      : Succeeded
StartTime   : 2/6/2025 1:08:59 PM
EndTime     : 2/6/2025 1:09:46 PM
Error       :
```

```
PS /> █
```

	Размер	Тип	Изменен
06:02 PM	1 объект	Папка	Срд 07 Мар 2018 22:39:01
06:49 PM	1 объект	Папка	Срд 07 Мар 2018 22:39:51
local	1 объект	Папка	Срд 07 Мар 2018 22:39:08
cegroupName devVMResourceGroup --Name MyVM2 --Force	1 объект	Папка	Срд 07 Мар 2018 22:39:18
b-4709-b693-854e5209429c	30,5 кБ	Изображение	Чтв 06 Фев 2025 15:02:39
08:59 PM	208,0 кБ	Изображение	Чтв 06 Фев 2025 15:02:43
09:46 PM	114,5 кБ	Изображение	Чтв 06 Фев 2025 15:02:23
	153,9 кБ	изображение	Чтв 06 Фев 2025 14:59:48
	108,0 кБ	Изображение	Чтв 06 Фев 2025 14:38:19
pan_environment	258 байт	Текст	Чтв 06 Фев 2025 13:20:21
dnac	49 байт	Текст	Чтв 06 Фев 2025 13:20:21
xrpattr	131 байт	Текст	Чтв 06 Фев 2025 13:20:10
Xauthority	60 байт	Двоичный	Срд 27 Ноя 2024 16:46:53
JCSauthority	25,8 кБ	Двоичный	Срд 27 Ноя 2024 16:46:53
java_error_in_idea_21354.log	879 байт	Текст	Срд 27 Ноя 2024 16:47:53
xriscapactionsold	142,4 кБ	Неизвестен	Срд 27 Ноя 2024 16:47:53
id_rsa_expired.pub	780 байт	Неизвестен	Срд 04 Сен 2024 22:28:02
id_rsa_expired	3,2 кБ	Неизвестен	Срд 04 Сен 2024 22:28:02
docs_tickets_body.sql	3,5 кБ	Неизвестен	Чтв 25 Янв 2024 22:50:34
wget.html	207 байт	Текст	Чтв 25 Янв 2024 22:34:30
java_error_in_idea_14373.log	3,1 кБ	Текст	Пнд 07 Дек 2023 12:01:43
vminfo	9,3 кБ	Двоичный	Пнд 25 Сен 2023 20:42:15
lscpi.so3	52,0 кБ	Неизвестен	Пнд 25 Сен 2023 20:06:29

Microsoft Azure portal interface showing a terminal session. The browser tabs include: Inbox (1,19%), Telegram V..., dj. Пропозиц..., My Dashbo..., My Account, My Account, Azure CLI P..., PDF Conve..., Менеджер, and a plus sign for more tabs. The address bar shows the URL: `portal.azure.com/#@dmytroslotvinskygmail.onmicrosoft.com/dashboard/private/f6e6ffe6-b1de-46fb-9f12-a49ddb731051`. The search bar contains the text: "Search resources, services, and docs (G+/)". The user profile is StanislavKostenich@dm... with the role DEFAULT DIRECTORY. The terminal session shows the following commands and output:

```
stanislav [ ~ ]$  
stanislav [ ~ ]$ Stop-AzVM -ResourceGroupName devVMResourceGroup -Name MyVM2 -Force  
bash: Stop-AzVM: command not found  
stanislav [ ~ ]$  
stanislav [ ~ ]$ az vm delete --resource-group devVMResourceGroup --name MyVM1 --yes  
stanislav [ ~ ]$
```

```
Терминал
PS /> Get-AzVM -ResourceGroupName devVMResourceGroup -Name MyVM1

ResourceGroupName : devVMResourceGroup
Id                : /subscriptions/9a6ae428-d8c3-44fe-bdf2-4e08593901a0/resourceGroups/devVMResourceGroup/providers/Microsoft.Compute/virtualMachines/MyVM1
VmId              : 944bd292-8616-4798-a338-0df72ade5daa
Name              : MyVM1
Type              : Microsoft.Compute/virtualMachines
Location          : eastus
Tags              : {}
HardwareProfile   : {VmSize}
NetworkProfile    : {NetworkInterfaces}
SecurityProfile   : {UefiSettings, SecurityType}
OSProfile         : {ComputerName, AdminUsername, LinuxConfiguration, Secrets, AllowExtensionOperations, RequireGuestProvisionSignal}
ProvisioningState : Succeeded
StorageProfile    : {ImageReference, OsDisk, DataDisks, DiskControllerType}
TimeCreated       : 2/6/2025 12:34:38 PM
Etag              : "1"

PS /> Get-AzVM -ResourceGroupName devVMResourceGroup -Name MyVM2

ResourceGroupName : devVMResourceGroup
Id                : /subscriptions/9a6ae428-d8c3-44fe-bdf2-4e08593901a0/resourceGroups/devVMResourceGroup/providers/Microsoft.Compute/virtualMachines/MyVM2
VmId              : 71c0c6ef-455f-454b-a1b2-44f81e6b4753
Name              : MyVM2
Type              : Microsoft.Compute/virtualMachines
Location          : eastus
Tags              : {}
HardwareProfile   : {VmSize}
NetworkProfile    : {NetworkInterfaces}
OSProfile         : {ComputerName, AdminUsername, LinuxConfiguration, Secrets, AllowExtensionOperations, RequireGuestProvisionSignal}
ProvisioningState : Succeeded
StorageProfile    : {ImageReference, OsDisk, DataDisks, DiskControllerType}
TimeCreated       : 2/6/2025 12:58:57 PM
Etag              : "2"

PS />
PS />
```

Терминал

Терминал

```
root [ / ]# az vm show --resource-group devVMResourceGroup --name MyVM1 --output table
az vm show --resource-group devVMResourceGroup --name MyVM2 --output table
Name      ResourceGroup Location Zones
-----
MyVM1     devVMResourceGroup eastus
Name      ResourceGroup Location Zones
-----
MyVM2     devVMResourceGroup eastus
root [ / ]#
```

Find

Replace

Find All

Replace All

Inbox (1,195 x) Telegram V x dj. Пропозиц x My Dashbo x My Account x My Account x Azure CLI P x PDF Conve x Менеджер x +

portal.azure.com/#@dmytroslovinskygmail.onmicrosoft.com/dashboard/private/f6e6ffe6-b1de-46fb-9f12-a49ddb731051 Обновить

Microsoft Azure Search resources, services, and docs (G+/) Copilot StanislavKostenich@dm... DEFAULT DIRECTORY

Switch to Bash Restart Manage files New session Editor Web preview Settings Help

New-AzVM: Parameter cannot be processed because the parameter name 'o' is ambiguous. Possible matches include: -OpenPorts -OSDiskDeleteOption -OutVariable -OutBuffer.

```
PS /home/stanislav> New-AzVM -ResourceGroupName devVMResourceGroup -Name MyVM2 -Image Ubuntu2204 -Credential (Get-Credential)
```

PowerShell credential request
Enter your credentials.
User: StanislavKostenich@dmytroslovinskygmail.onmicrosoft.com
Password for user StanislavKostenich@dmytroslovinskygmail.onmicrosoft.com: *****

You can reference <https://aka.ms/findImagePS> on how to find VM Images using PowerShell.
No Size value has been provided. The VM will be created with the default size Standard_D2s_v3.

```
ResourceGroupName      : devVMResourceGroup
Id                     :
/subscriptions/9a6ae428-d8c3-44fe-bdf2-4e985939a1a0/resourceGroups/devVMResourceGroup/providers/Microsoft.Compute/virtualMachines/MyVM2
VmId                   : 71c9c6ef-455f-454b-a1b2-44f81e6h4753
Name                   : MyVM2
Type                   : Microsoft.Compute/virtualMachines
Location               : eastus
Tags                   : {}
HardwareProfile         : {VmSize}
NetworkProfile          : {NetworkInterfaces}
OSProfile               : {ComputerName AdminUsername LinuxConfiguration Secrets AllowExtensionOperations RequireGuestProvisionSignal}
ProvisioningState       : Succeeded
StorageProfile          : {ImageReference OsDisk DataDisks DiskControllerType}
FullyQualifiedDomainName : myvm2-a22ea0.eastus.cloudapp.azure.com
TimeCreated             : 2/6/2025 12:58:57 PM
Etag                   : "2"
```

```
PS /home/stanislav> 
```

