Tag 2 Guten Morgen.

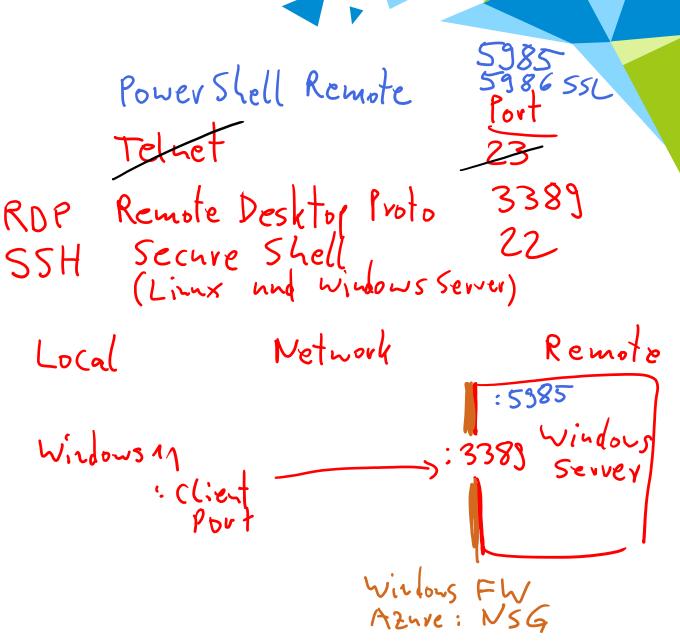




Module 2: Administration

## Agenda:

- 1. Azure Architecture Fundamentals
- 2. Administration Fundamentals
  - 3. Virtualization Fundamentals
  - 4. Network Infrastructure Fundamentals
  - 5. Storage Management Fundamentals
  - 6. Identity Services Fundamentals

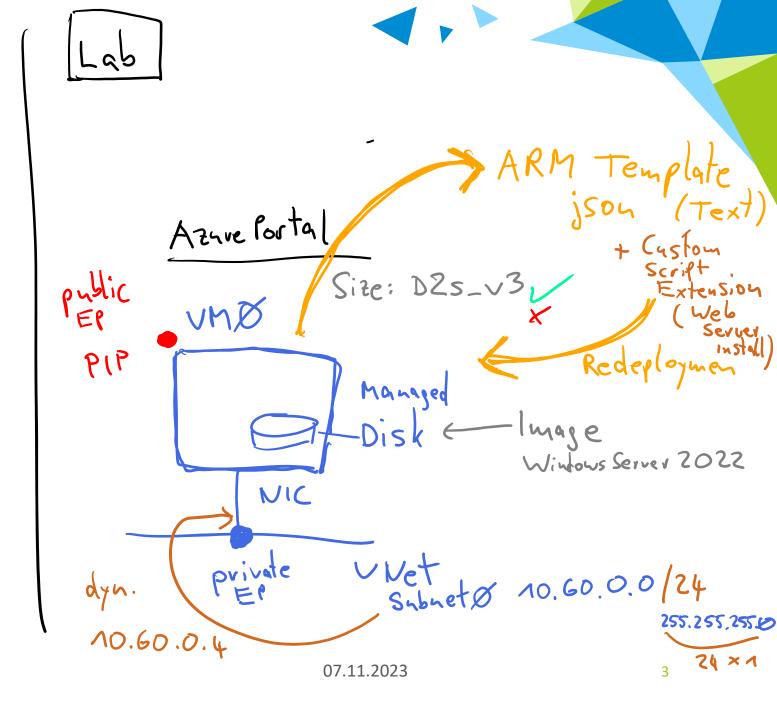


#### 2. Administration

#### Lessons:

- ✓ Administration in Windows Server
- √ Administration in Azure

ARM RESOUVE Endpoint
Azure Resouve Françoist
Problic 19





Bastion Host Hub-Spoke luternet Remote (Azuve) Cocal windows 11 3:443 Bastion Host Browser (TLS) VNet "Spoke" Peeving Bastion = Gateway SSL > RDP Paas

brainymotion

#### Lesson 1: Windows Server Administrations









Overview Server Manager





Overview Windows Server Admin Center Project Honolny Web

RPC



## Windows Server Administrations Basics



Overview of Server Administration with PowerShell

Powershelfcript







## Overview Server Manager (1 of 2)

• Server Manager initially opens to the dashboard, which provides quick

access to:

Add roles and features

Add other servers to manage

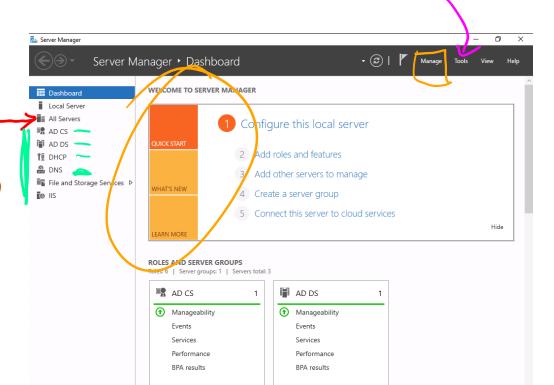
Create a server group

Connect this server to cloud services

Active Divectory AD

R User

Comp (Member Server)







## Overview Server Manager (2 of 2)

- Server Manager allows server administrators to:
  - Manage the local server and remotely manage multiple servers
  - Configure the local server
  - Get basic information about installed hardware
  - Query event logs
  - Monitor status of services
  - Perform best practice analysis
  - Check performance monitors

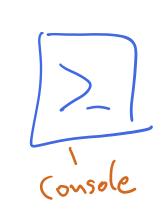


# Overview of Server Administration with PowerShell (1 of 2) Windows PowerShell 5.1

Windows Linnx nac Power Shell 7.3.

• Windows PowerShell is a command line shell and scripting language that allows task automation and configuration management

 Windows PowerShell cmdlets execute at a Windows PowerShell command prompt or combine into Windows PowerShell scripts



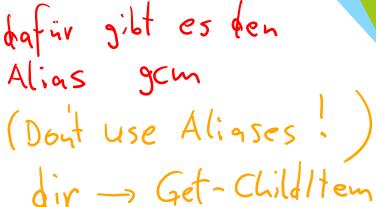




# Overview of Server Administration with PowerShell (2 of 2)

- Cmdlets:
- Get-Command
- Are small commands that perform specific functions
- Can be combined to perform multiple tasks
- Can be piped together to perform multiple operations
- Modules:
  - Cmdlets specific to a product are packaged together and installed as modules
  - Some are installed with the product and some need to be added manually
    - Get-Module verb Nonn

-Listavailable Measure-Object
Pipeline



Power Shell

2005 v1

Jeff Shover

### Lesson 3: Azure Portal Administration







## Azure Portal Administration



Use the Azure Portal



Use Azure Cloud Shell



Use Azure PowerShell



Use Azure CLI





#### Use the Azure Portal

Search resources, services, and docs

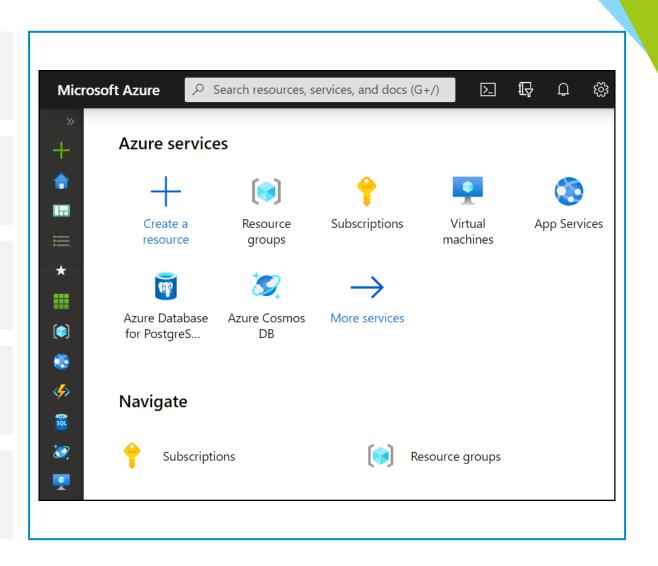
Manage resources

Create customized dashboards and favorites

Access the Cloud Shell

Receive notifications





#### Use Azure Cloud Shell

Interactive, browser-accessible shell

Offers either Bash or PowerShell

Is temporary and provided on a per-session, per-user basis

Requires a resource group, storage account, and Azure File share

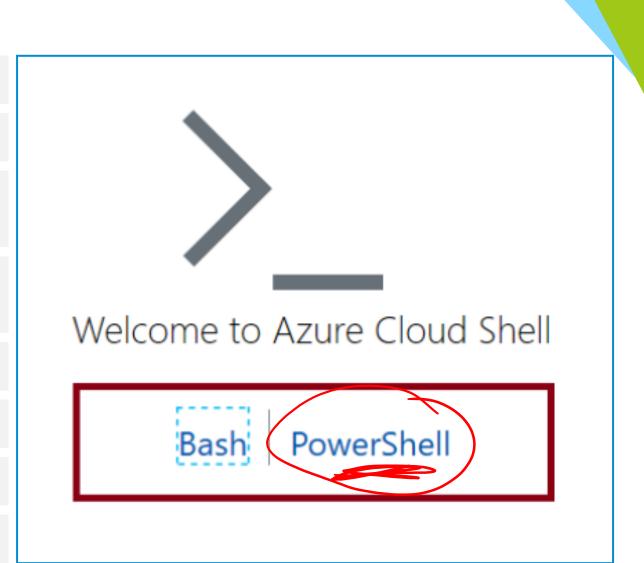
Authenticates automatically

Integrated graphical text editor

Is assigned one machine per user account

Times out after 20 minutes





### Use Azure PowerShell

nodule Az. Compute

New-AzVm

PowerShell Gallery

-ResourceGroupName "CrmTestingResourceGroup"

-Name "CrmUnitTests"

-Image "UbuntuLTS"

• •

- Connect to your Azure subscription and manage resources
- Adds the Azure-specific commands
- Available inside a browser via the Azure Cloud Shell
- Available as a local installation on Linux, macOS, or Windows
- Has an interactive and a scripting mode

brainymotion

Powershell Bash Storage Account



#### Use Azure CLI

#### az vm restart -g MyResourceGroup -n MyVm

- Cross-platform command-line program
- Runs on Linux, macOS, and Windows
- Can be used interactively or through scripts
- Commands are structured in <u>\_groups\_</u> and <u>\_subgroups\_</u>
- Use *find* to locate commands
- Use --help for more detailed information





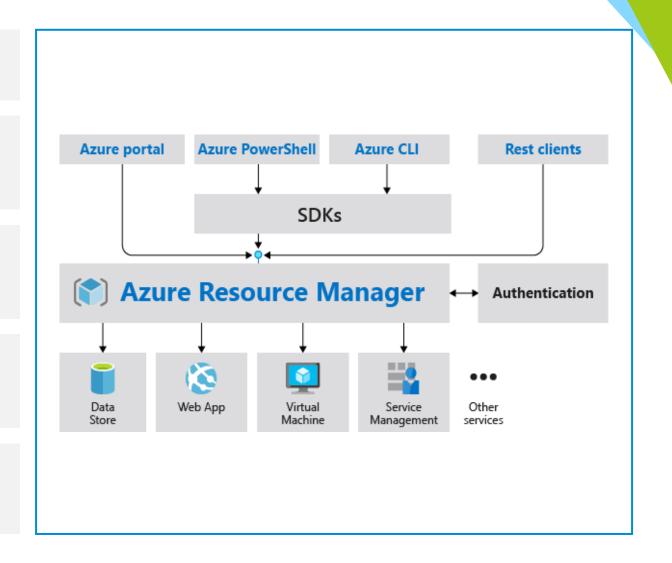
Provides a consistent management layer

Enables you to work with the resources in your solution as a group

Deploy, update, or delete in a single, coordinated operation

Provides security, auditing, and tagging features

Choose the tools and APIs that work best for you







## The End