**Microsoft Azure Fundamentals: Azure Management Tools**

**The Azure Command Line Interface (CLI)**

* Can be used to automate cloud management; requires syntax knowledge
* Azure Cloud Shell (Azure portal)
* Install and use on Windows, Linux, macOS

**Azure CLI Installation**

· Windows: Microsoft Software Installer (MSI) file

· Linux: package manager commands such as apt, yum, zypper, script installation

· macOS: Homebrew package manager

**Azure CLI Authentication**

* Azure Cloud Shell uses existing Azure authentication credentials
* az login command
* Service principal

**Azure CLI Version**

* az version command
* Always use the latest version of the CLI

**Azure CLI Help**

„az vm –help“

Ein Bild, das Text, Screenshot enthält.

Automatisch generierte Beschreibung

**Azure CLI: Creating a Virtual Machine**

az vm create \

-- image UbuntuLTS \

-- admin-username user1 \

-- ssh-key-value ~/.ssh/id\_rsa.pub \

-- resource-group RG1 \

-- location canadaeast

-- name Ubuntul

**The Azure Az PowerShell Module**

* PowerShell modules are collections of related cmdlets
* Accessible through Cloud Shell (Azure Portal) or install and run on-premises
* Can be used to automate cloud management, install and use on Windows, Linux, macOS

**Install Azure PowerShell**

· Download and install Azure PowerShell MSI on Windows

· Install from within PowerShell

· Set-ExecutionPolicy -ExecutionPolicy RemoteSigned - Scope CurrentUser

· Install-Module -Name Az -Scope CurrentUser -Repository PSGallery -Force

**Using Azure PowerShell**

* Connect-AzAccount
* Get-Command, Get-Help

**Listing PoewerShell Comdlets**

Ein Bild, das Text, Screenshot, Tablet, Multimedia enthält.

Automatisch generierte Beschreibung

**Azure PowerShell: Creating a Virtual Machine**

**Ein Bild, das Text, Screenshot, Schrift enthält.

Automatisch generierte Beschreibung**

**Azure Resource Manager (ARM) Templates**

* Text files containing instructions for deploying and configuring cloud resources
* Use JavaScript Object Notation (JSON)
* Referred to as "infrastructure as code"

**Azure Resources**

* Storage account
* App Service
* Virtual machine
* Database
* Load Balancer

**ARM Template Syntax**

**Ein Bild, das Text, Screenshot, Schrift enthält.

Automatisch generierte Beschreibung**

**ARM Template Deployment**

* Azure portal
* CLI
* PowerShell