Azure Command-Line Interface

Azure CLI or Azure Command-Line Interface is a powerful tool designed to simplify the management of Microsoft Azure resources through a command-line interface. Azure CLI ensures efficient resource management by providing a scriptable means to interact with Azure services. Azure CLI can be used to access a wide range of Azure services from virtual machines and storage accounts to databases and networking components.

Azure CLI Command Syntax

az [group] [subgroup] [command] [options]

The az prefix precedes all commands. Groups and subgroups are used to categorize commands based on functionality. The command represents the specific action or task you are instructing Azure CLI to execute. Options are additional parameters or flags that modify the behavior of the command

az resource list Lists all resources within the default subscription.

az group create Creates a new resource group, a logical container for resources, enabling you to manage and organize related resources.

az vm create Deploys a virtual machine (VM) in Azure, allowing you to customize specifications such as OS, size, and network configurations during the creation process.

az vm start Starts a specific virtual machine, ensuring that the VM is operational and ready to process requests or workloads.

az storage account create Creates a new Azure Storage account, a scalable storage solution for various data types.

az storage blob upload Uploads a file or data to a specified Azure Storage blob, facilitating the transfer and storage of content within the configured storage account.

az sql server create Deploys an Azure SQL Server, a fully managed relational database service, allowing you to define server settings, administrative credentials, and other configuration parameters.

az sql db create Creates a new Azure SQL Database, a database-as-a-service offering, within the specified SQL Server instance, allowing you to manage and scale databases efficiently.

az network vnet create Establishes an Azure Virtual Network (VNet), providing a secure and isolated network environment for Azure resources, within a specified resource group and location.

az network nsg create Creates a Network Security Group (NSG), enabling you to filter network traffic and implement security rules for inbound and outbound communications within an Azure VNet.

Azure CLI-VM

az vm create --resource-group MyResourceGroup --name MyVM --image UbuntuLTS --admin-username azureuser --admin-password <password>

Azure CLI-Login

az login

Azure CLI is to initiate your Azure CLI session. Running the command, opens the browser for authentication with Azure credentials, allowing the CLI to establish a secure connection to your Azure account.

Azure CLI-Account

az account

The following command is used to show information such as subscription ID, subscription name, and tenant ID of your current subscription.

Azure CLI-Set Account

az account set --subscription {subscription-name}

To change your current subscription

Azure CLI-Init

az init

Initialize your Azure CLI environment.

az init --location indiacentral

Azure CLI-Config

az config

This command enables you to configure Azure CLI settings.

az config set defaults.location=indiacentral

To prevent a resource group and its resources from being deleted, use az lock create.

az lock create --name LockGroup --lock-type CanNotDelete --resource-group exampleGroup

To get the locks for a resource group, use az lock list.

az lock list --resource-group exampleGroup

To delete a lock, use az lock delete.

az lock delete --name exampleLock --resource-group exampleGroup

Create a storage account

az storage account create -n mystorageaccount -g MyResourceGroup -l westus --sku Standard_LRS

To delete a storage account.

az storage account delete -n MyStorageAccount -g MyResourceGroup

Create Sql Server

az sql server create -l westus -g mygroup -n myserver -u myadminuser -p myadminpassword

Create Sql Database

az sql db create -g mygroup -s myserver -n mydb

Delete a database

az sql db delete --name MyAzureSQLDatabase --resource-group MyResourceGroup --server myserver