### Communication Tools for Azure

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### Manageability Tools in Azure



**Azure Portal** 



**Azure PowerShell** 



Azure Command Line Interface (CLI)



Azure REST API

#### 1. Azure Portal

- Web-based
- Manage apps & deployments
- Always available

```
modifier_ob.
  mirror object to mirror
mirror_mod.mirror_object
peration == "MIRROR_X":
mirror_mod.use_x = True
irror_mod.use_y = False
irror_mod.use_z = False
 _operation == "MIRROR_Y"
lrror_mod.use_x = False
rror_mod.use_y = True
 irror_mod.use_z = False
  _operation == "MIRROR_Z"|
  rror_mod.use_x = False
  lrror_mod.use_y = False
  lrror_mod.use_z = True
  melection at the end -add
   ob.select= 1
   er ob.select=1
   ntext.scene.objects.action
   "Selected" + str(modifies
   irror ob.select = 0
  bpy.context.selected_obje
  lata.objects[one.name].sel
  int("please select exactle
  OPERATOR CLASSES ----
    vpes.Operator):
X mirror to the selected
   ject.mirror_mirror_x"
  ext.active_object is not
```

#### Azure Cloud Shell

- Browser-based tool
- Supports Azure
   PowerShell & Azure
   CLI
- No installation needed
- You can switch between them seamlessly

### 2. Azure PowerShell

- Shell experience for developers
- Uses command-lets to manage resource
- Internally calls Azure REST API
- Automate actions
- Usable in Windows, Linux, and Mac

#### 3. Azure CLI

- Shell experience for developers
- Very similar to Azure PowerShell
- Internally calls Azure REST API
- Usable in Windows, Linux, and Mac

### 4. Azure REST API

- **RE**presentational **S**tate **T**ransfer (**REST**) API
- Manage services through HTTP requests
- Features:
  - Resource management
  - Identity management
  - Monitoring
  - Diagnostics
  - Networking

### Azure Arc

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### Azure Arc: Overview

- Consistent multicloud & on-prem platform
- Centralized way to manage the environment
- Uses Azure services

### Azure Arc: Supported Resource Types



Servers (Windows and Linux)



Kubernetes clusters



Azure data services



SQL Server instances



Virtual machines



# Azure Arc: Features & Benefits

- Consistent behavior for servers
- Azure VM extensions
- Kubernetes management
- Compliance using Azure Policy
- Unified experience

## Azure Resource Manager (ARM) & ARM Templates

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### Azure Resource Manager (ARM)

- Deployment & management service for Azure
- Manages resources in Azure
- Enables consistent result

### ARM Templates

- Infrastructure as a Code
- JSON format
- Validation
- Parallel execution

# Advantages of ARM Templates

- Declarative syntax
- Consistent result
- Predefine the order
- Preview changes
- Validation
- Reuse
- Extend