

Communication Tools for Azure

Praveenkumar Bouna, CodeWithPraveen.com

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

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

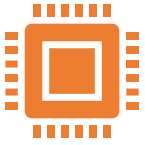
Praveenkumar Bouna, CodeWithPraveen.com



Azure Arc: Overview

- Consistent multi-cloud & 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

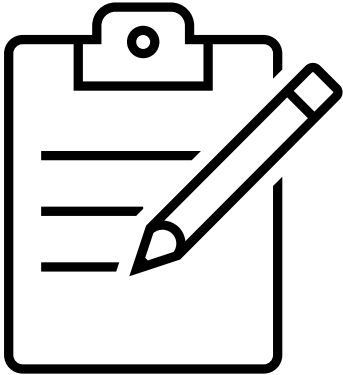


Azure Arc: Features & Benefits

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

Azure Resource Manager (ARM) & ARM Templates

Praveenkumar Bouna, CodeWithPraveen.com



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