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# Makram JENAYAH Cloud Architect



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## Overview

- Common Scenarios for Automation
- ARM Templates
- Azure Automation
- Terraform
- Ansible



#### **Common scenarios for Automation**

- Build / Deploy resources
- Configure VMs
- Monitor
- Protect
- Govern



## **ARM Templates**

•ARM Templates, stands for **A**zure **R**esource **M**anager templates, are a way to declare the objects you want, the types, names, and properties in a JSON file which can be checked into source control and managed like any other code file.



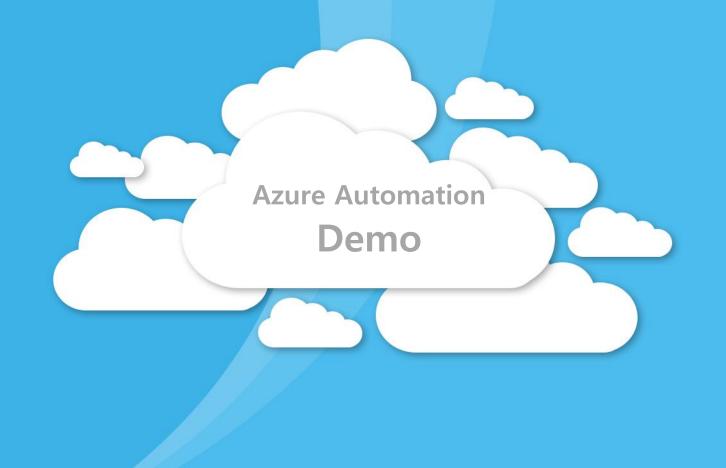




## **Azure Automation**

- •Azure Automation delivers a cloud-based automation and configuration service that provides consistent management across your Azure environment.
- •It consists of process automation, update management, and configuration features.
- •Azure Automation provides complete control during deployment, operations, and decommissioning of workloads and resources.







## **Terraform**

- •<u>Hashicorp Terraform</u> is an open-source tool for provisioning and managing cloud infrastructure.
- •It codifies infrastructure in configuration files that describe the topology of cloud resources. These resources include virtual machines, storage accounts , and networking interfaces.
- •The Terraform CLI provides a simple mechanism to deploy and version the configuration files to Azure.
- •The Terraform Azure Provider can be used to configure infrastructure in Microsoft Azure using the Azure Resource Manager API's.



### **Ansible**

- Ansible is an IT automation tool. It can configure systems, deploy software, and orchestrate more advanced IT tasks such as continuous deployments o r zero downtime rolling updates.
- Ansible includes a suite of modules for interacting with Azure Resource
  Manager, giving you the tools to easily create and orchestrate infrastructure
  on the Microsoft Azure Cloud.



