

Azure Management Tools



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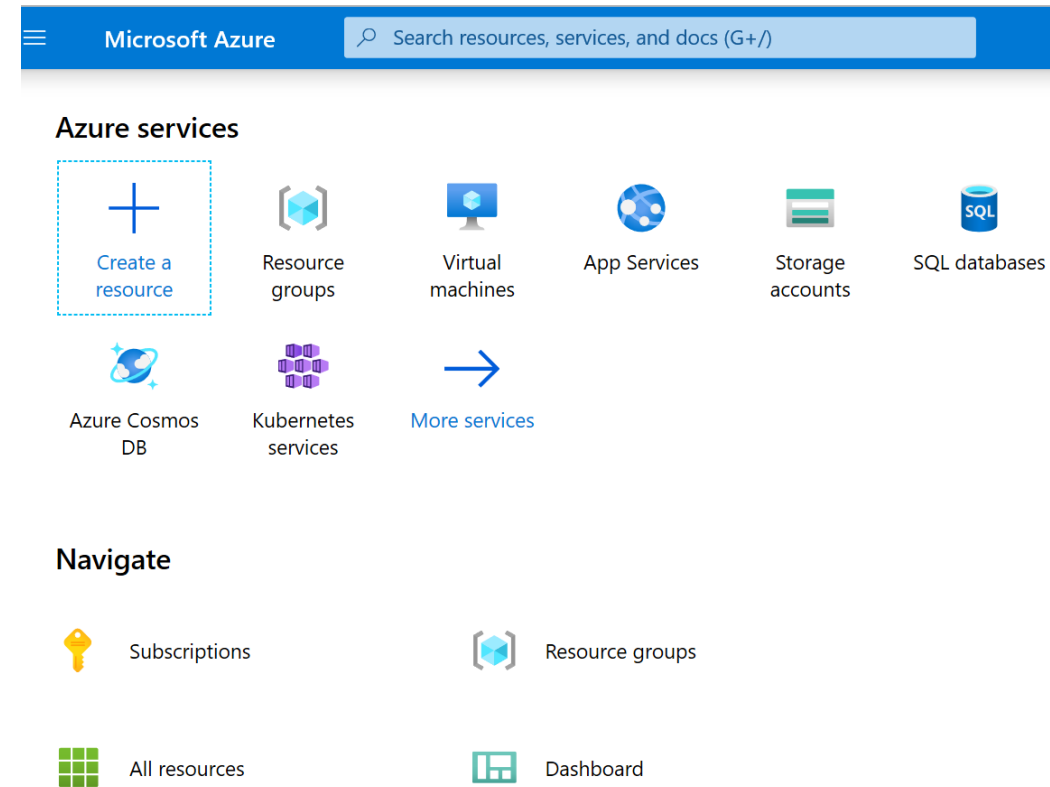
Microsoft MVP, Technical Consultant and Corporate Trainer

Agenda

- Azure Portal
- Azure CLI
- Azure Cloud Shell
- PowerShell
- Azure Mobile App
- Azure Advisor
- ARM Templates
- Azure Monitor
- Azure Service Health

Azure Portal

- A web-based, unified console to manage your Azure subscription by using a GUI.
- Helps to Build, manage, and monitor everything from simple web apps to complex cloud deployments.
- Create custom dashboards for an organized view of resources.



Azure CLI

- A cross-platform command line tools for managing Azure resources and services
- Used for executing script to automate task
- You can use it in your browser with [Azure Cloud Shell](#)
- Installed on Windows, Mac, Linux, Ubuntu and Docker.

Getting Started with Azure CLI

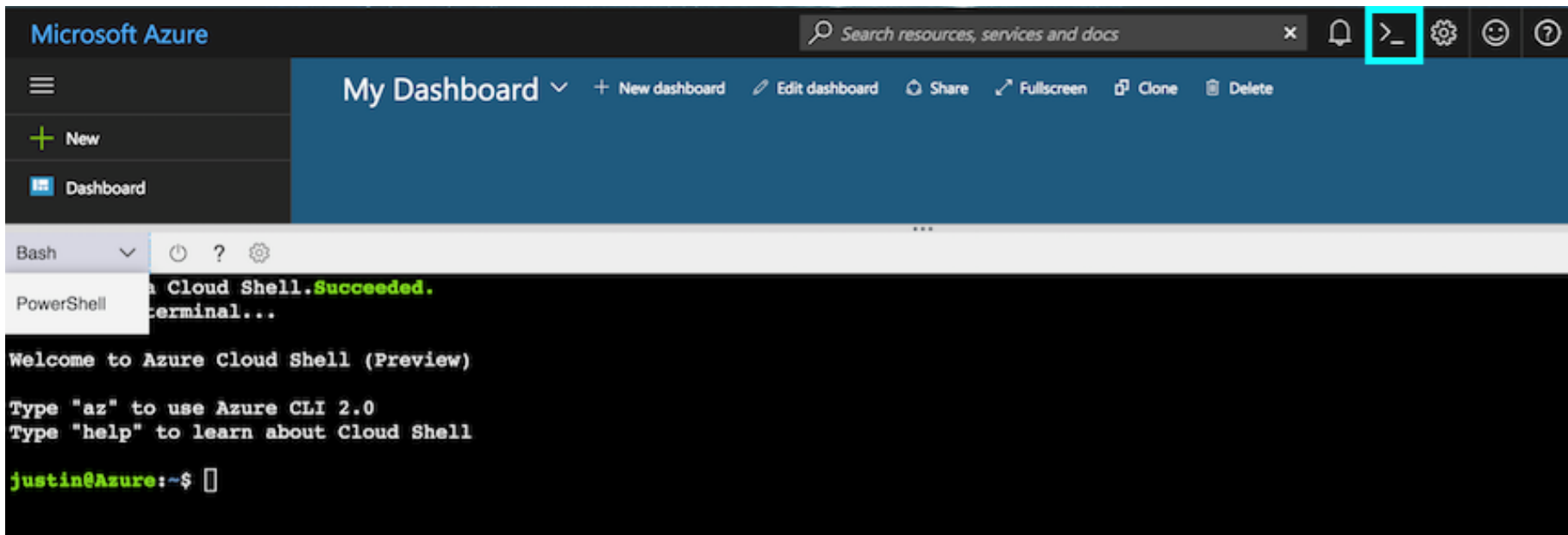
- Login into your account by running command : `az login`

Resource type	Azure CLI command group
Resource group	<code>az group</code>
Virtual machines	<code>az vm</code>
Storage accounts	<code>az storage account</code>
Web applications	<code>az webapp</code>
SQL databases	<code>az sql server</code>
CosmosDB	<code>az cosmosdb</code>

- Logout from your account : `az logout --username <username>`

Azure Cloud Shell

- An interactive, browser-accessible shell for managing Azure resources
- Choice of preferred shell experience : Bash/PowerShell



PowerShell

- A command-line shell designed for system administrators
- Used for task automation and configuration management
- Based on the .NET framework
- Includes a command-line shell and a scripting language
- On the top of the standard command-line shell, there is a Windows PowerShell ISE
- ISE (Integrated Scripting Environment) is a GUI that allows you to write and run commands in the command line

PowerShell Commands

//reference : <https://bit.ly/2MCPRq5>

>Connect-AzureRmAccount

>get-command *-azurermresourcegroup

>help New-AzureRmResourceGroup

>New-AzureRmResourceGroup -Name DNTRg -Location "West India"

>Get-AzureRmResourceGroup

>Remove-AzureRmResourceGroup -Name DNTRg -Force

>get-command *-azurermwebapp

>help New-AzureRmWebApp

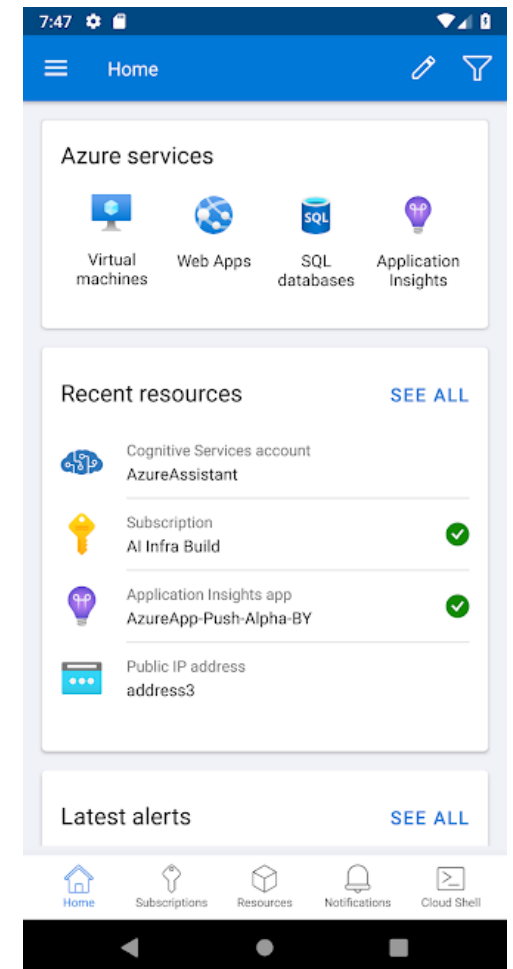
>New-AzureRmWebApp -Name dntapp -ResourceGroupName dntRg -AppServicePlan dntplan

>Get-AzureRmWebApp

>Remove-AzureRmWebApp -Name dntapp -ResourceGroupName dntrg -Force

Azure Mobile App

- After successfully operationalized most critical systems the mobile app will allow you to monitor your resources.
- Even you can perform essential management and administrative tasks on your resources.

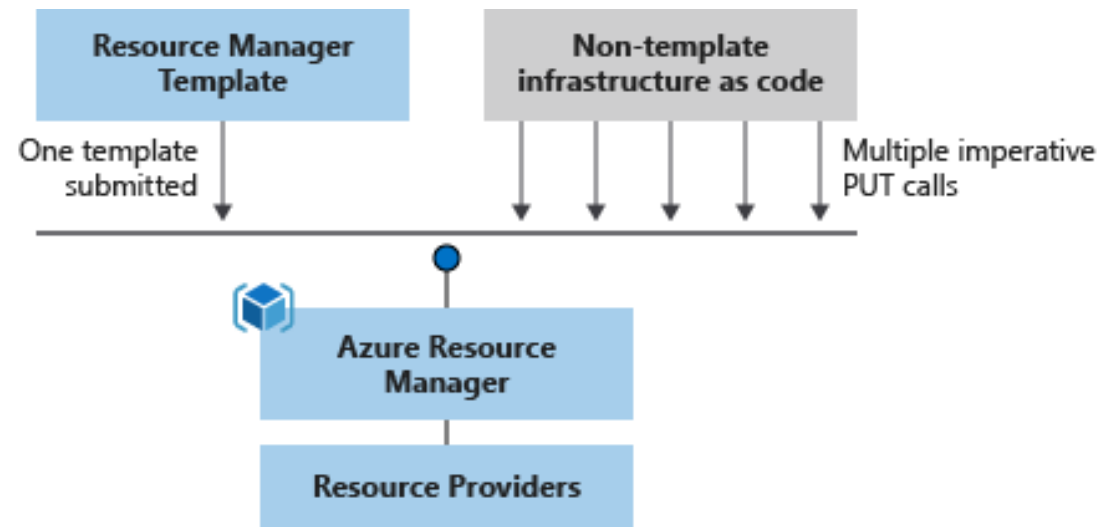


Azure Advisor

- A personalized cloud consultant that helps you follow best practices to optimize your Azure deployments.
- Analyzes your resource configuration and usage telemetry and then recommends solutions that can help you to improve the cost effectiveness, performance, Reliability (formerly called High availability), and security of your Azure resources.

Azure Resource Manager (ARM) Templates

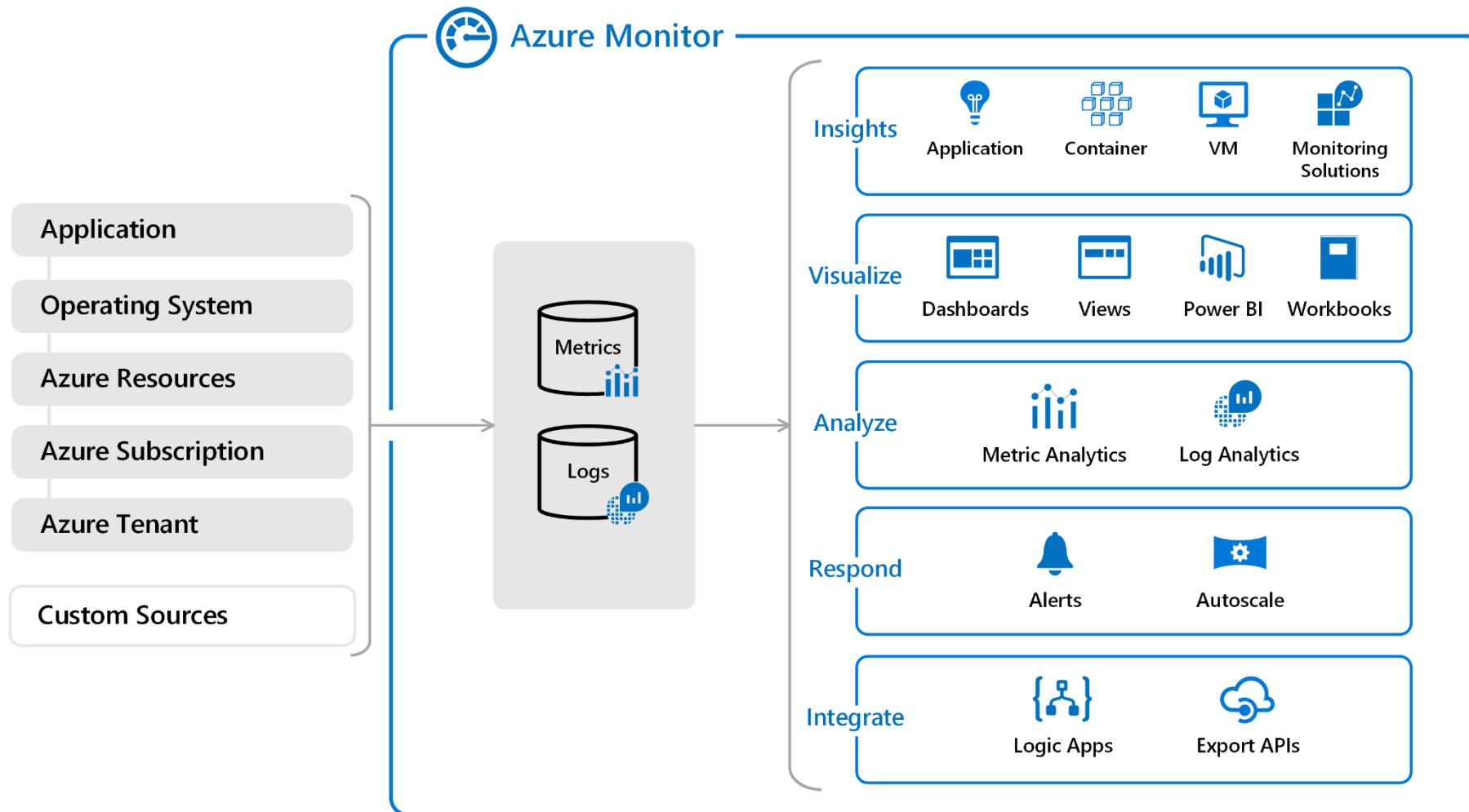
- Azure Resource Manager (ARM) templates helps you to implement infrastructure as code for your Azure solutions.
- An ARM template is a JSON file that defines the infrastructure and configuration for your resources.
- In the template, you specify the resources to deploy and the properties for those resources.



Azure Monitor

- Helps to monitor the availability, performance and usage of your web applications hosted on Azure or on-premises.
- Collect, analyze and act on telemetry data from your Azure and on-premises environments.
- Helps you to maximize performance and availability of your applications and proactively identify problems in seconds.

How Azure Monitor works



Azure Service Health

- Analyze and notifies about Azure service health issues and planned maintenance.
- A combination of three separate smaller services:
- **Azure status** informs you of service outages in Azure on the Azure Status page.
- **Service health** provides a personalized view of the health of the Azure services and regions you're using.
- **Resource health** provides information about the health of your individual cloud resources such as a specific virtual machine instance.