

# Azure Management and Monitoring

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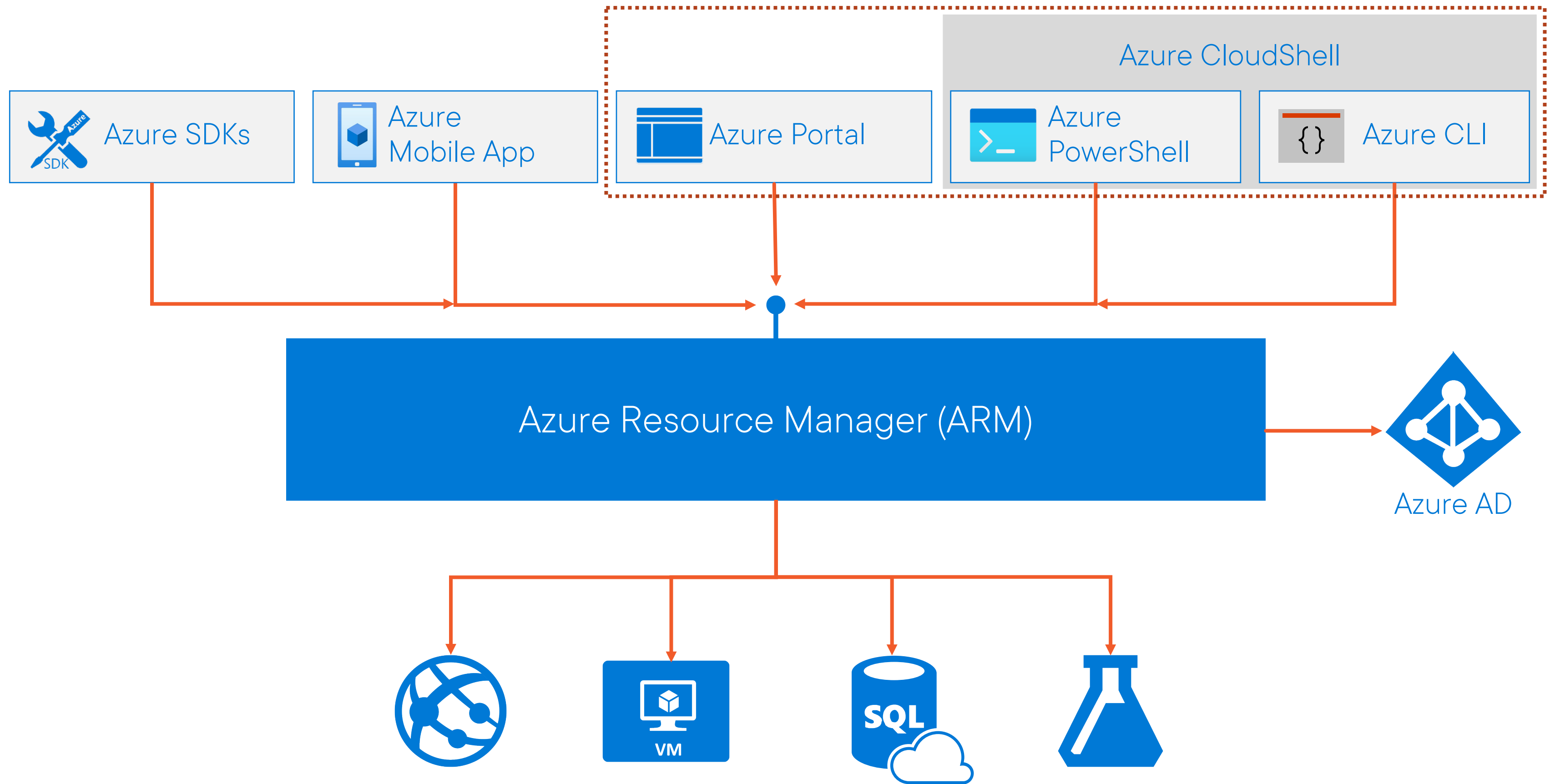


**Neil Morrissey**

Solutions Architect

@morrisseycode   [www.neilmorrissey.net](http://www.neilmorrissey.net)





## Azure Resource Manager (ARM)

**Introduced in 2014**

**Superseded “Classic Deployment Model”**

**Azure Resource Manager**

- Resource groups
- Resource manager templates
- Tags



# Module Overview



**Azure CLI**

**Azure PowerShell**

**Cloud Shell**

**ARM Templates**

**Azure Service Health**

**Azure Monitor**

**Microsoft Defender for Cloud**

**Azure Advisor**

**Azure App**

**Azure Arc**

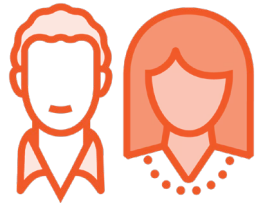


# Azure Resource Manager Templates

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# Agile Development and DevOps



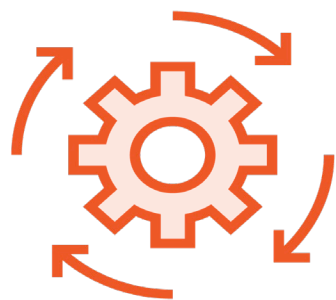
**Combines IT Operations and Development**



**Infrastructure now being managed as code**

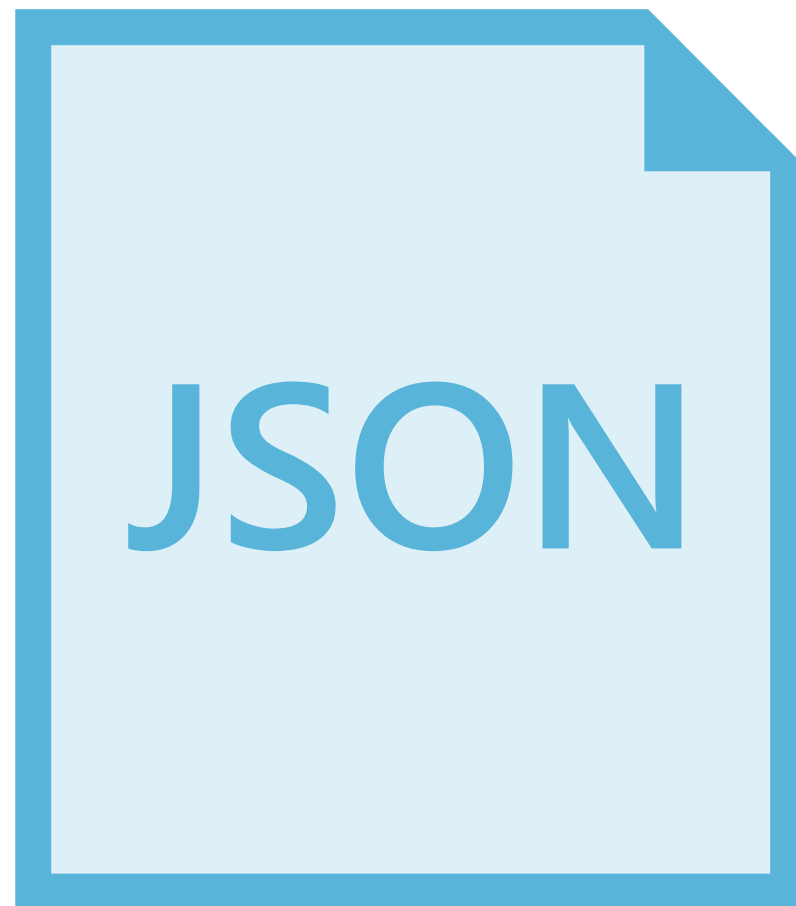


**Can be stored and versioned in code repositories**



**Included in CI/CD pipelines**





**Azure Resource  
Manager Templates**

## JavaScript Object Notation (JSON)

Infrastructure and configuration for Azure resources

Declarative syntax

Deployment

- Azure Pipelines (CI/CD)
- GitHub Actions
- PowerShell
- Azure CLI
- Using the Azure Portal



# Azure Service Health

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# Azure Service Health

## Azure Status

Service outages across  
all of Azure

## Service Health

Service health of  
services and regions  
you use

## Resource Health

Health of your  
deployed resources



# Azure Monitor

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# Azure Monitor



## **Metrics**

Numerical values

For alerting and detection of issues

**Metrics Explorer**



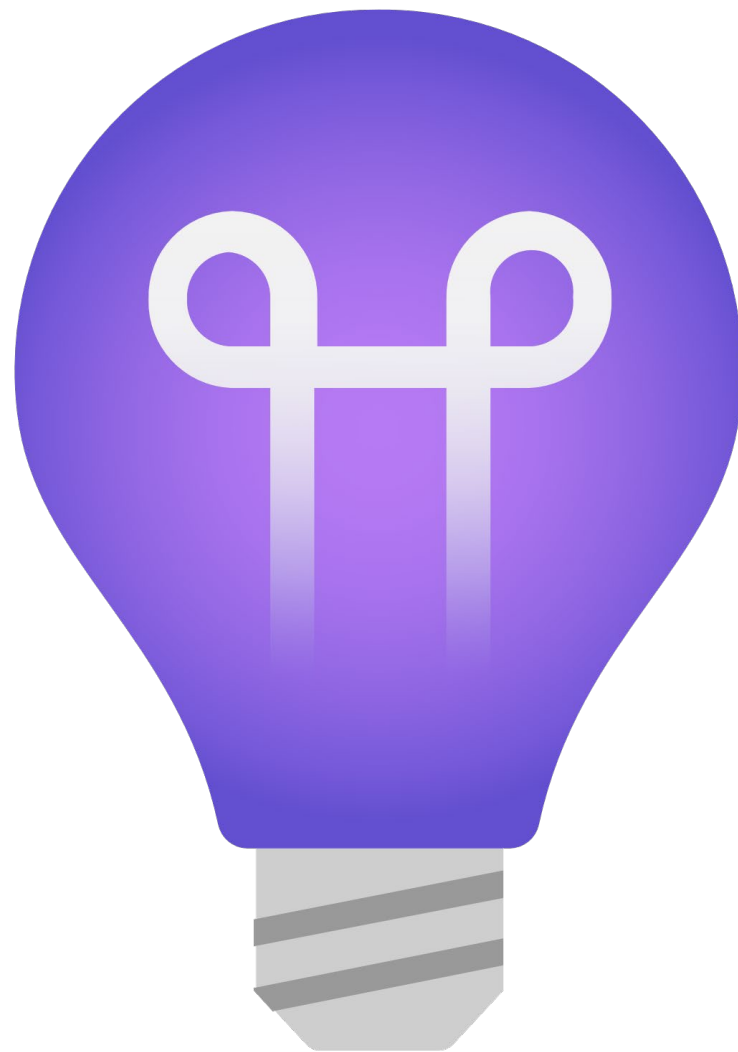
## **Logs**

Records with resource-specific data

For troubleshooting and analysis

**Log Analytics**

# Application Insights



**Availability, performance and usage**

**For web applications**

**Runtime monitoring**

- Turn on for App Service

**Deep monitoring**

- Use SDK in code of application



# Azure Advisor for Optimizing Your Resources

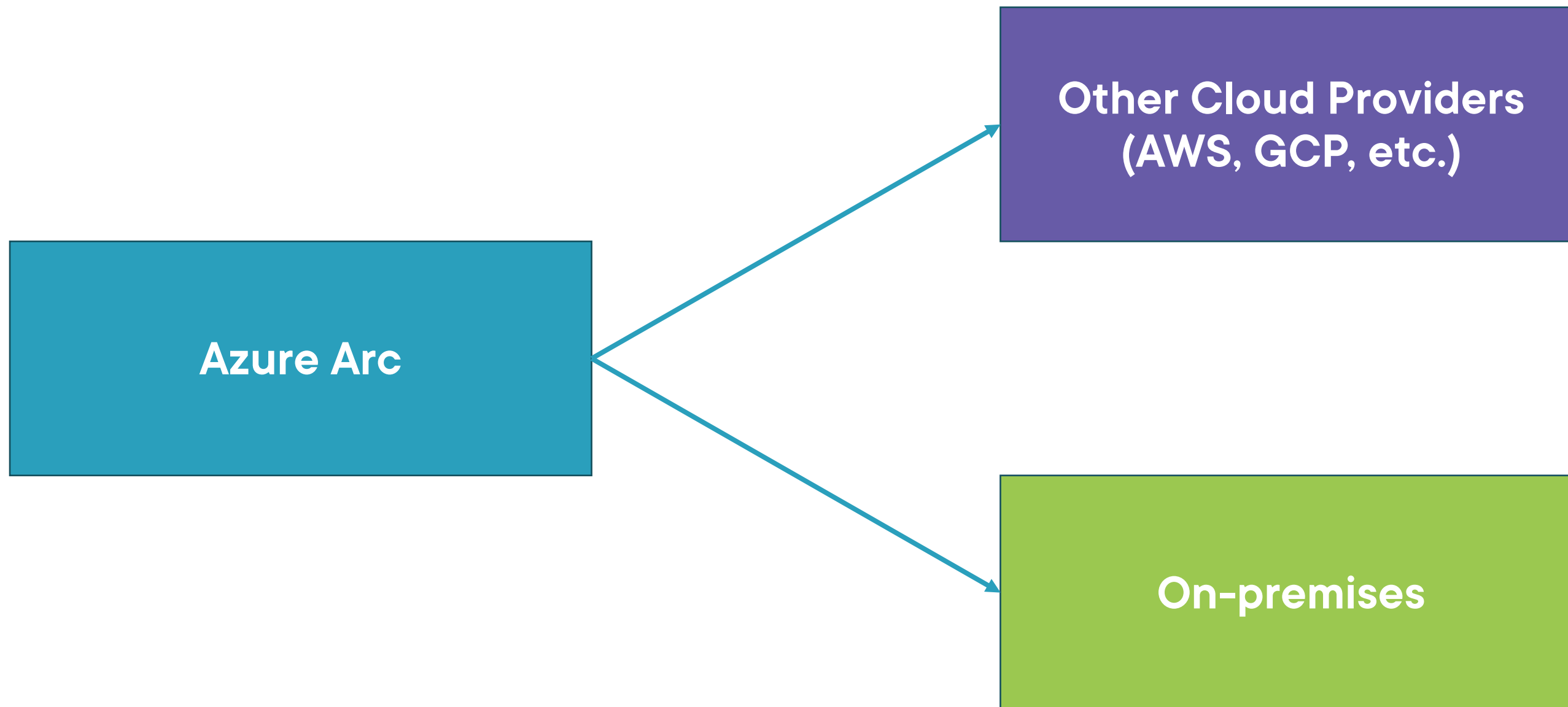
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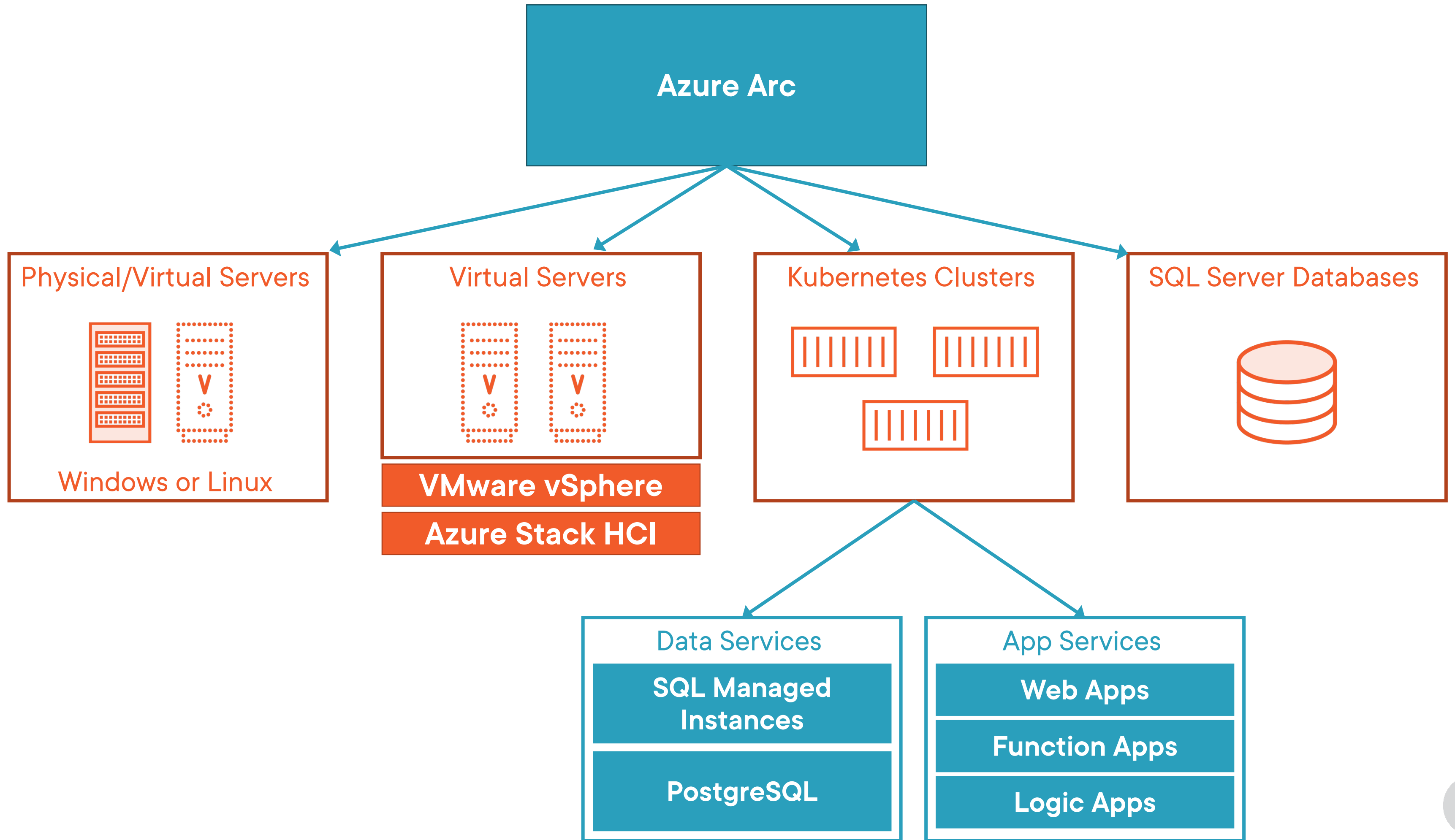


# Azure Arc for Managing Resources Hosted Outside Azure

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# Azure Resource Manager Benefits

**Tagging**

**Searching and  
Indexing**

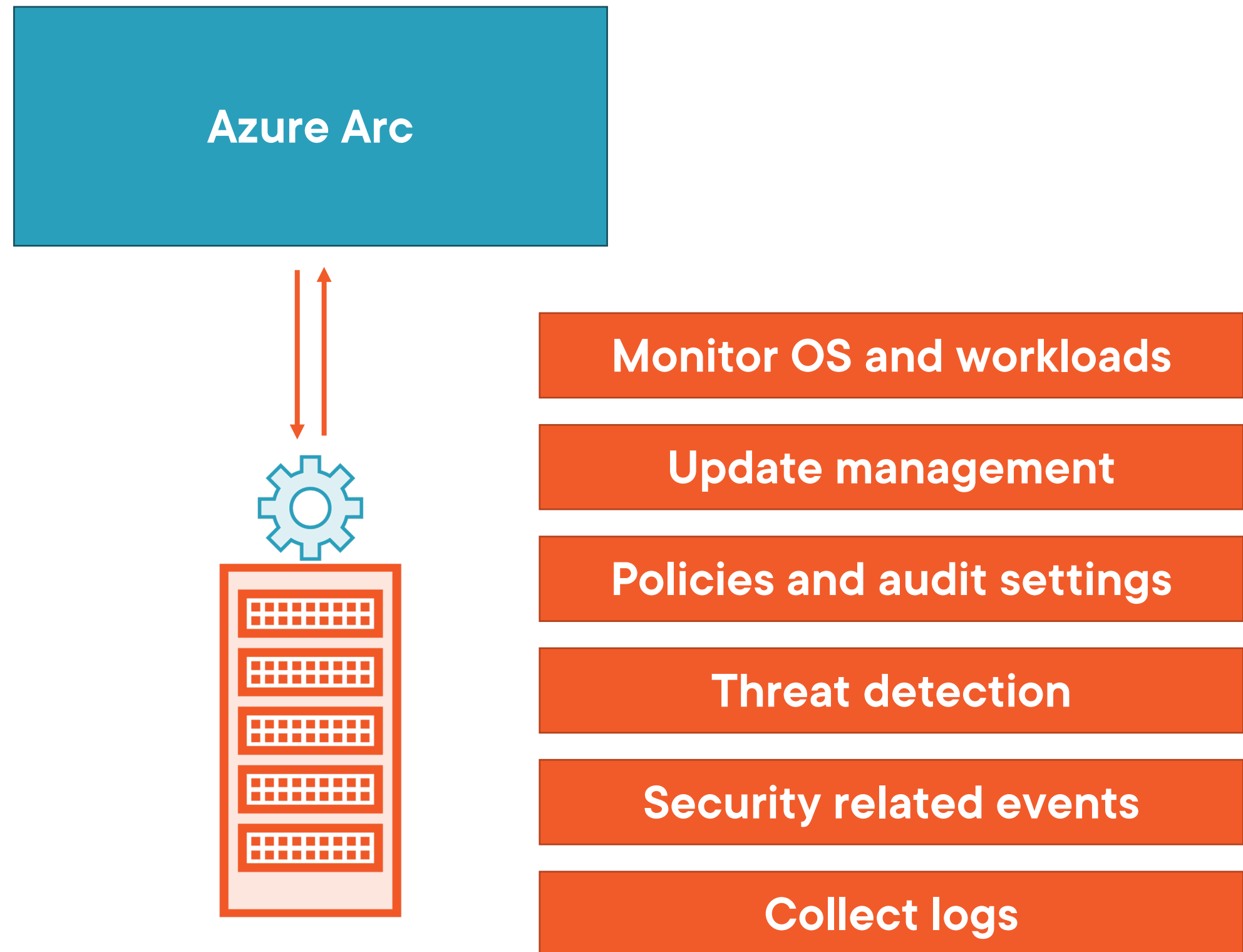
**Role Based Access  
Control**

**Automation**

**Update  
Management**



# Azure Arc – Server Management



# Course Summary



**Azure architecture**

**Azure compute**

**Networking in Azure**

**Data Storage options**

**Managing and monitoring resources**



# Thank You!



**Neil Morrissey**

@morrisseycode   [www.neilmorrissey.net](http://www.neilmorrissey.net)

[www.linkedin.com/in/neilmorrissey/](http://www.linkedin.com/in/neilmorrissey/)

