

# Building Event-Driven Solutions with Azure Functions



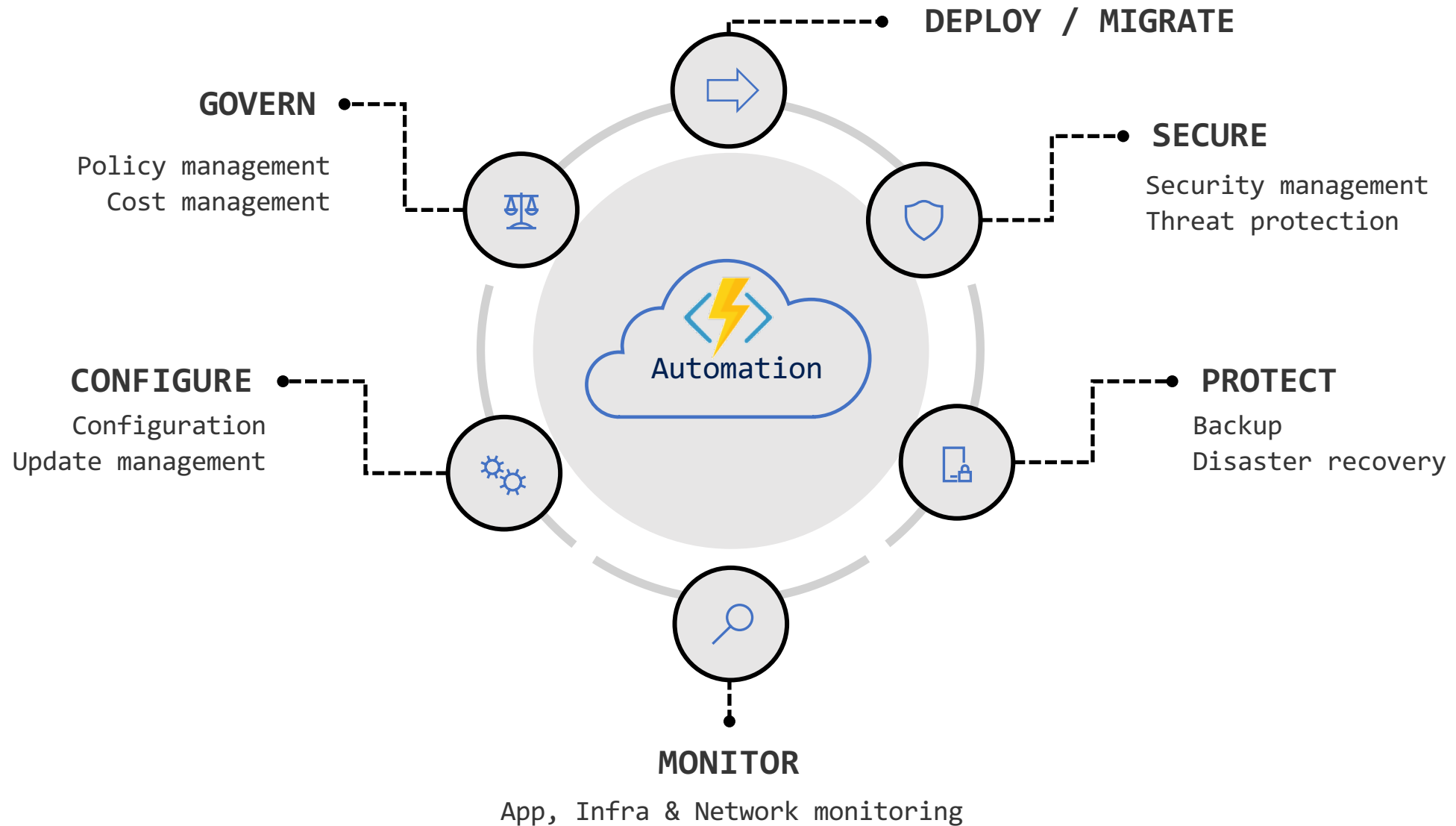
**Mike Pfeiffer**  
Microsoft Azure MVP



# Enter to Win a Seat in the AZ-104 Azure Administrator Workshop

<https://cloudskills.io/omahaaug>

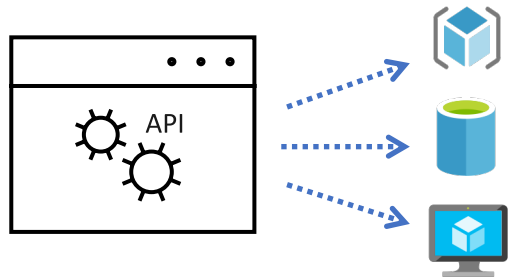
# Event Based Automation Across Azure



# Get started with Common Automation Scenarios

Deliver event-based automation with Azure Functions with native Azure services

## Deploy



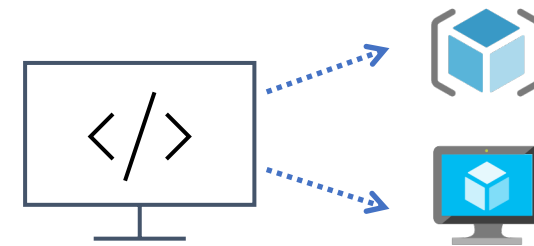
- When VM is deleted, remove from monitoring system
- When resource group is created, look up cost center for region and add tag with number
- Add AD groups to new SQL servers



event-based automation



## Operate



- When cpu spikes > 90% - send teams event.
- When storage account latency > 50% - open github issue
- When certificates are about to expire, send email

# PowerShell in Azure Functions

- PowerShell Profile (profile.ps1)
- Custom Module Upload
- Logging and Troubleshooting
- Local Debugging
- Managed Identity Integration
- Bindings:
  - Inbound Parameters
  - Outbound Push-OutputBinding

# Function App Plans

- Consumption
  - Pay based on code execution
  - 1 million executions and 400,000GB-s
  - Timeout 5-10 mins
- Premium
  - No cold starts / no time limit
  - VNET Isolation
- App Service Plan
  - Uses existing App Service Plan

# Additional Resources

Azure Functions PowerShell Developer Guide

<https://docs.microsoft.com/en-us/azure/azure-functions/functions-reference-powershell>

Azure Functions: An Introduction for DevOps Engineers

<https://cloudskills.io/blog/azure-functions-devops>

Azure Functions: Creating a PowerShell Event Based Function

<https://cloudskills.io/blog/azure-event-driven-function>

Code Sample: Cost Center Tagging

<https://github.com/CloudSkills/cost-center-tagging>