

# Implement Azure Automation – Part 3

## Azure Automation State Configuration (DSC)

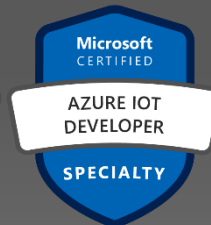


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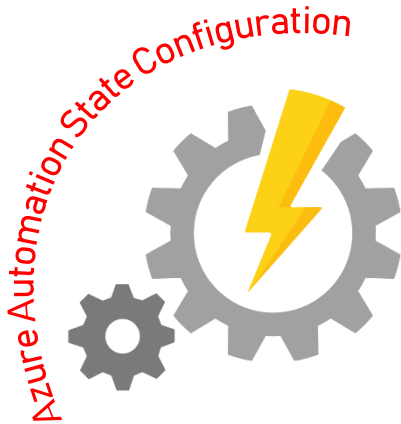
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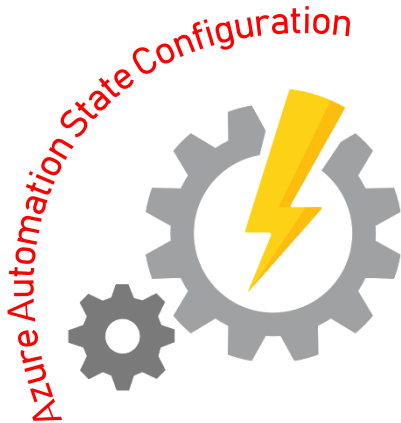


## What is Azure Automation State Configuration?



- Configuration management service
- Create and manage PowerShell scripts for state configuration
- Allows configuration management of workloads in any cloud or on-premises datacenter
- Can be used as a report-only endpoint

# Benefits of Azure Automation State Configuration?



- **Enables Management of machines**
  - **Managing scalability**
  - **Assign declarative configurations**
  - **View and avoid any compliance issues**
- **Built-In Pull Server**
- **Management of DSC Artifacts**
- **Import Reporting Data into Azure monitor Logs**

# How does Azure Automation State Configuration Work?

- State Configuration capabilities are built in PowerShell
- Providers are included for configuration management using PowerShell
- PowerShell DSC is declarative and not imperative
- Author PowerShell DSC
  - Create DSC File
  - Compile the DSC file into Microsoft Object Format (MOF) file
  - Stage the DSC file for the target nodes
  - WMI providers implement the desired configuration as per DSC

```
Configuration WebConfig
{
  Node WebVM1
  {
    WindowsFeature IIS
    {
      Ensure      = 'Present'
      Name        = 'Web-Server'
      IncludeAllSubFeature = $true
    }
  }
}
```

## How does Azure Automation State Configuration Work?

### Push Mode

Configurations are applied via the Start-DSCConfiguration PowerShell command

### Pull Mode

Configurations are stored centrally and the nodes are configured to pole and pull the configurations from the central location

# Demo



# Summary



## Azure Automation State Configuration (DSC)

What is Azure Automation DSC?

Benefits of Azure Automation DSC

How Azure Automation DSC Works?

Summary

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