

# *Azure Policies & Guest Configuration*

The end of Windows GPO?

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# Azure Policies & Azure AD PIM breakdown

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# Azure Policies & Azure AD PIM breakdown

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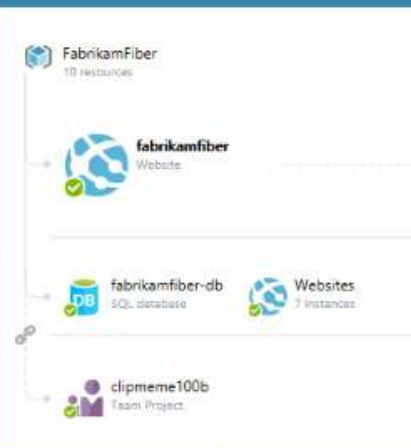
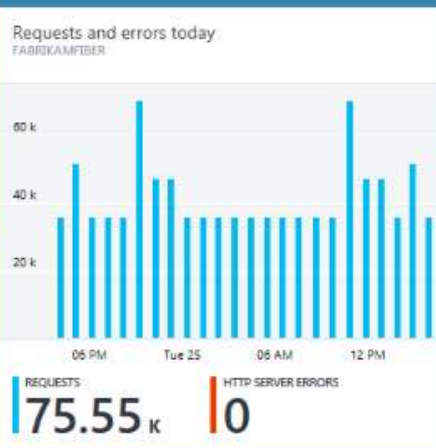
# Microsoft Azure



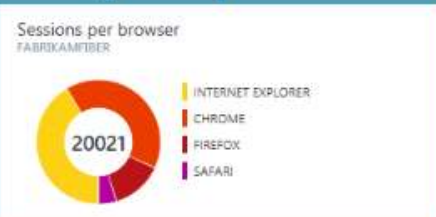
- HOME
- NOTIFICATIONS
- BROWSE
- JOURNEYS
- BILLING
- NEW



- SSL
- BACKUPS
- TRAFFIC MANAGER
- CONSOLE



- WEBSITES
- BROWSE



# Azure Governance Challenges

What are some of the challenges your team might face?

1

Control user access

2

Control deployable SKUs

3

Enforcing conventions based on environments

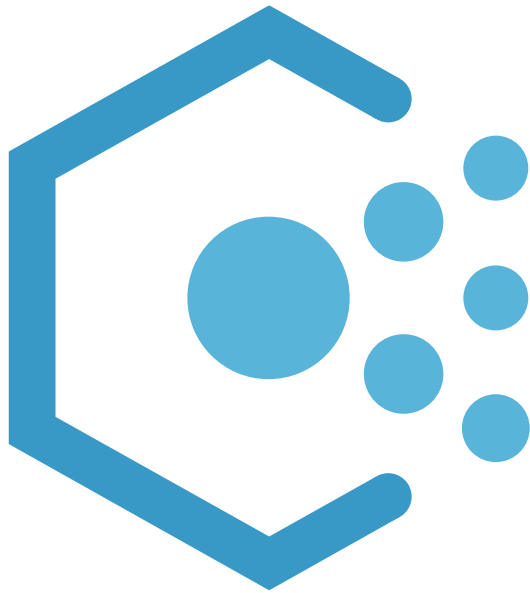
4

Governance management

5

Provisioning

# Policies:



1

Built-in or BYOP

2

Can apply to management groups

3

Real-time evaluation

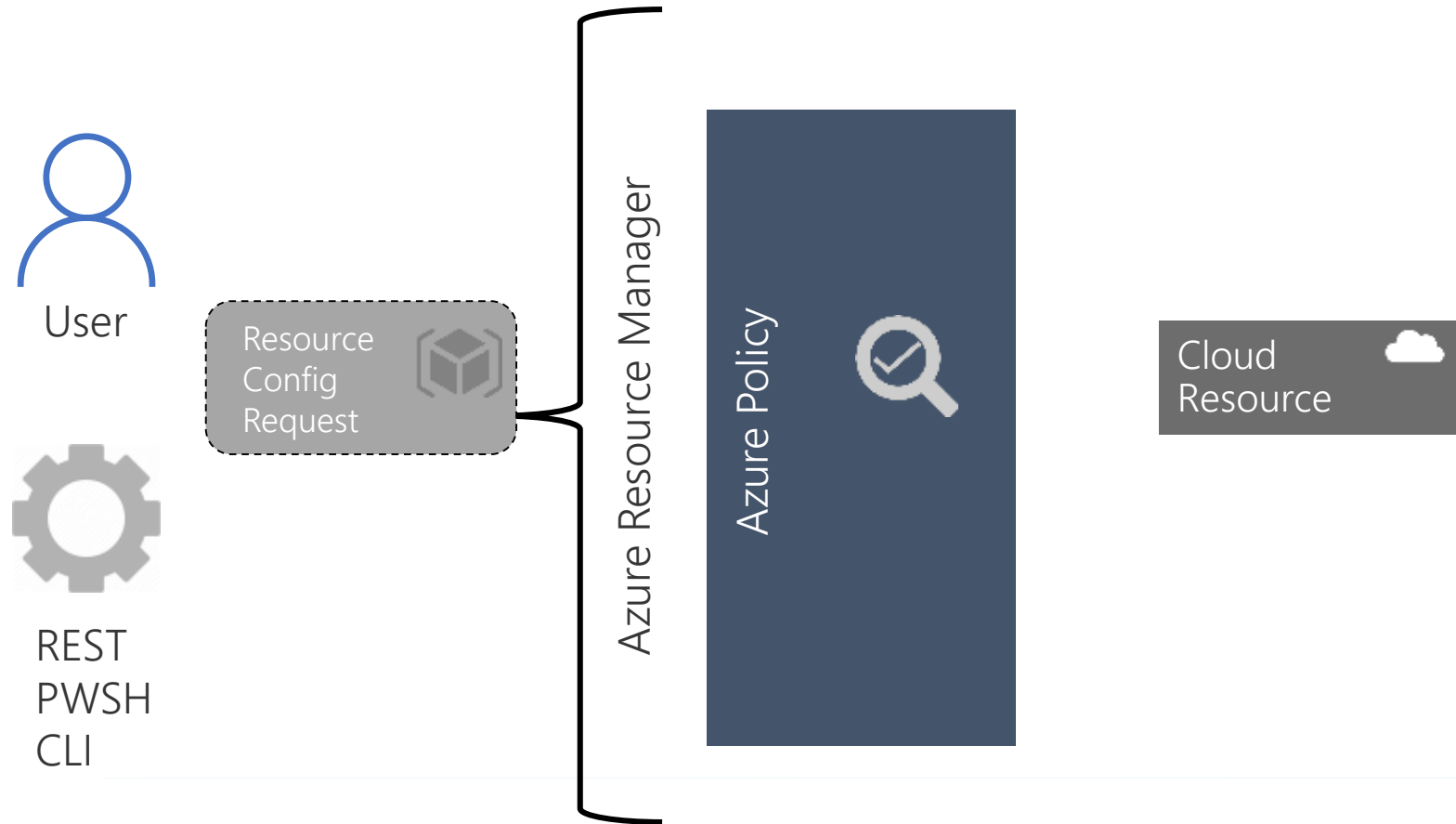
4

Real-time enforcement

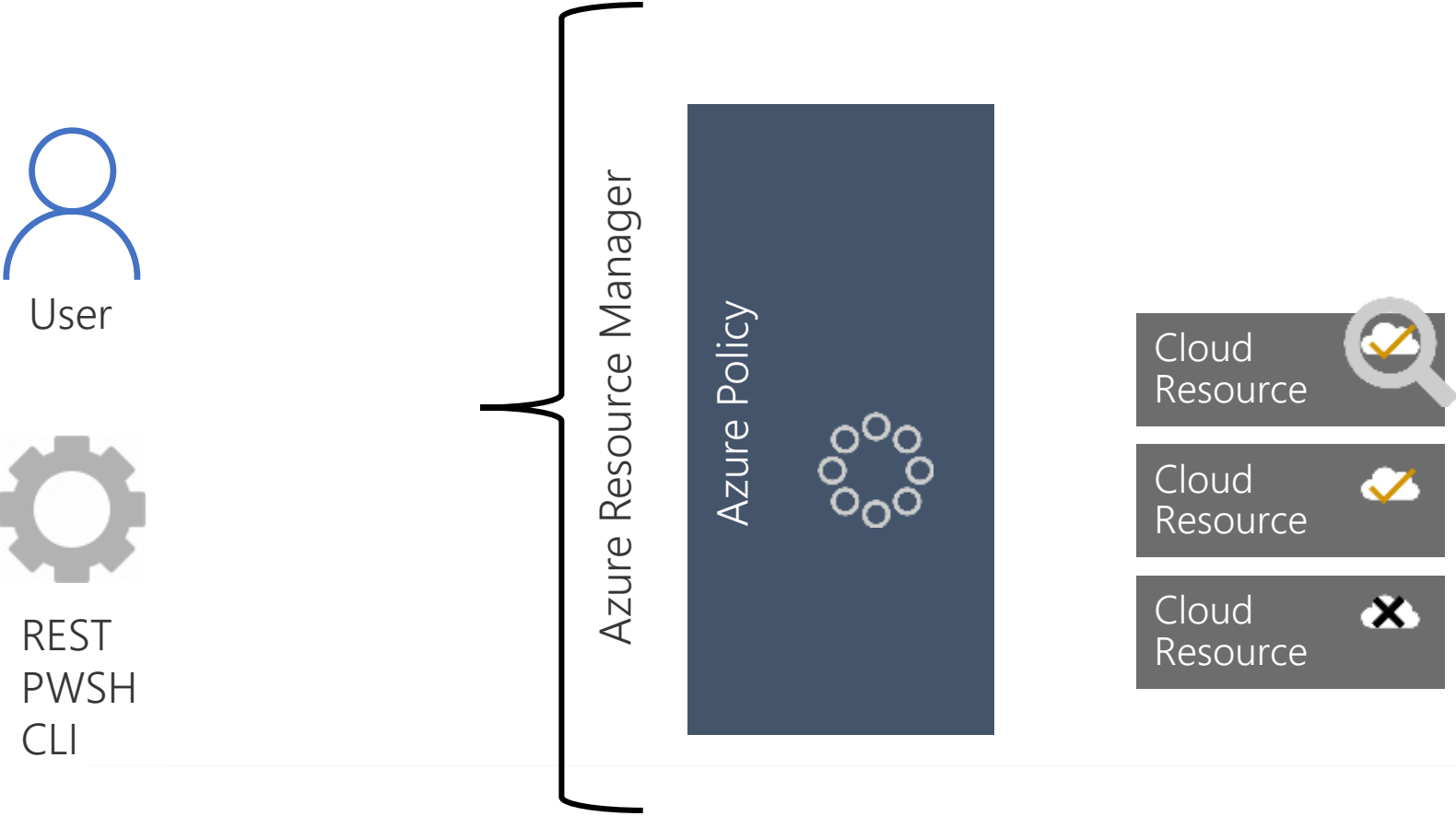
5

Real-time remediation

# Submitting a Resource

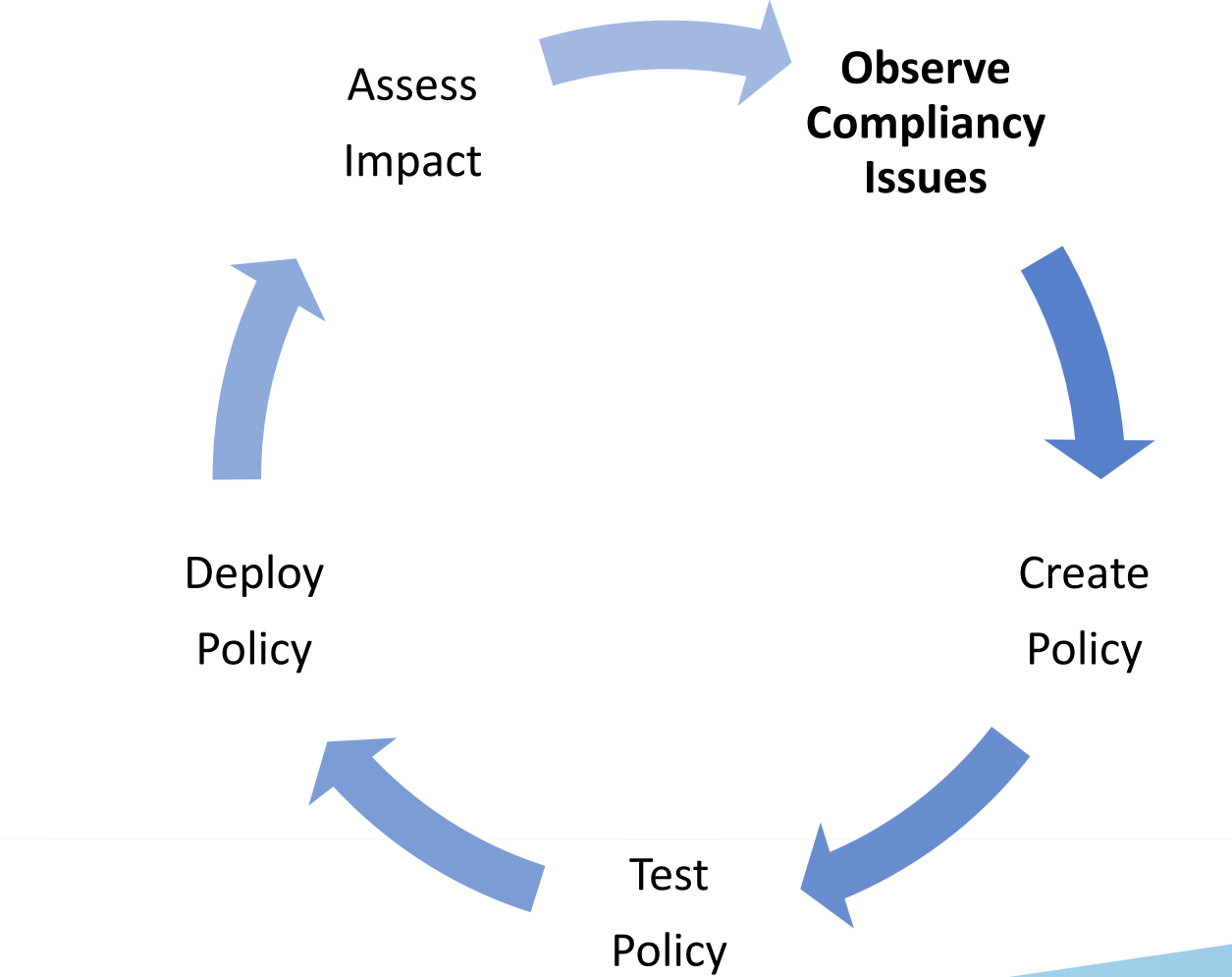


# Evaluating existing resources

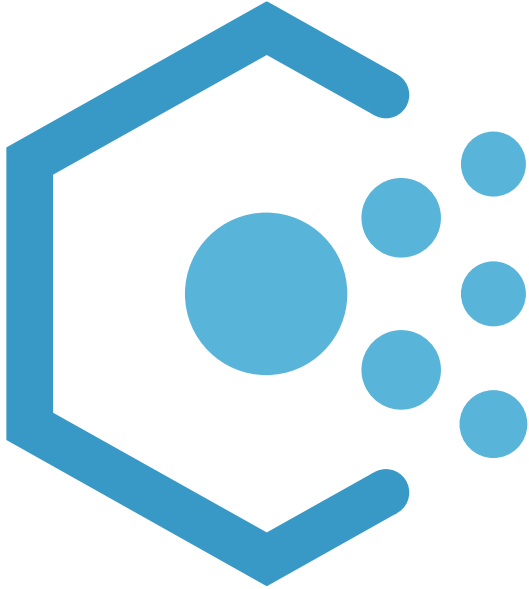




# Lifecycle of an Azure Policy



# Policy Definition Structure



```
{  
  "if": {  
    <condition> | <logical operator>  
  },  
  "then": {  
    "effect": "disabled | append | modify |  
deny | audit |  
auditIfNotExists | deployIfNotExists"  
  }  
}
```

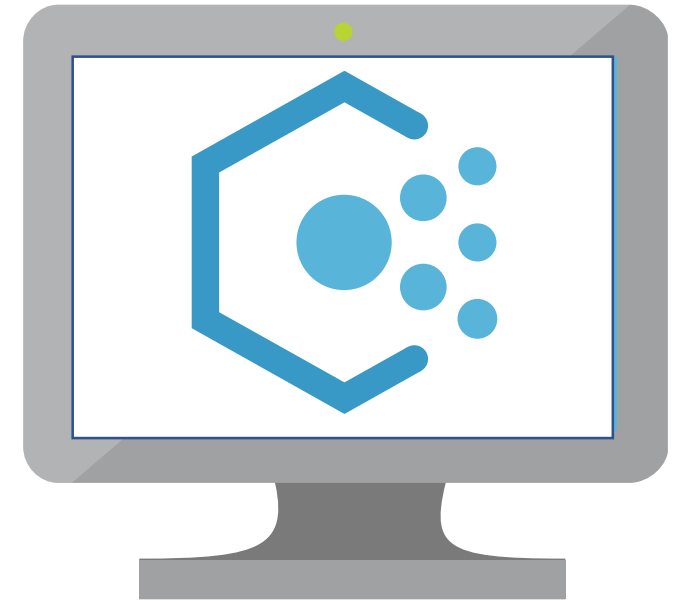


**Demo**

## Azure Policies

Azure Policies, Initiatives & Assignments

# Azure Policies: Guest Configuration



1

## Audit settings inside a Windows or Linux machine

Operating system configuration  
Application  
Application configuration  
Environment settings

2

## Audit mode only

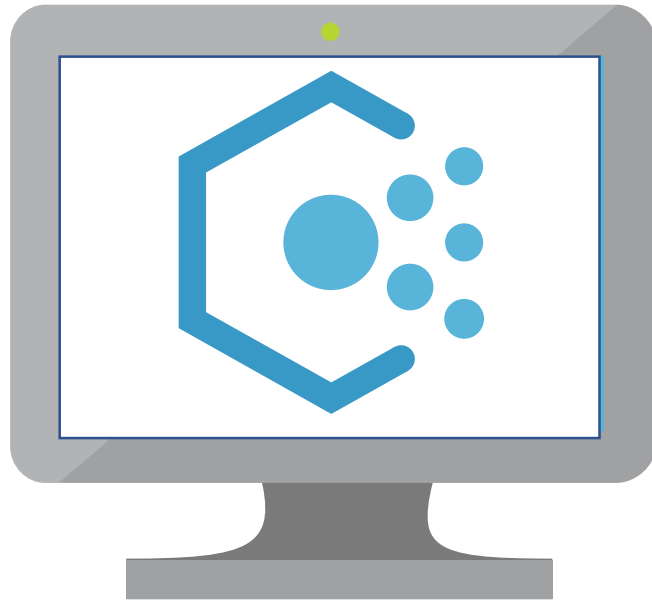
3

## Audits occur every 15-minutes

4

## Policy changes applied after five minutes

# Azure Policies: Guest Configuration



## Supported client types

Publisher	Name	Versions
Canonical	Ubuntu Server	14.04, 16.04, 18.04
Credativ	Debian	8, 9
Microsoft	Windows Server	2012 Datacenter, 2012 R2 Datacenter, 2016 Datacenter, 2019 Datacenter
Microsoft	Windows Client	Windows 10
OpenLogic	CentOS	7.3, 7.4, 7.5
Red Hat	Red Hat Enterprise Linux	7.4, 7.5
Suse	SLES	12 SP3

# Azure Policies: Guest Configuration

## Technical requirements

On subscription: Guest Configuration resource provider

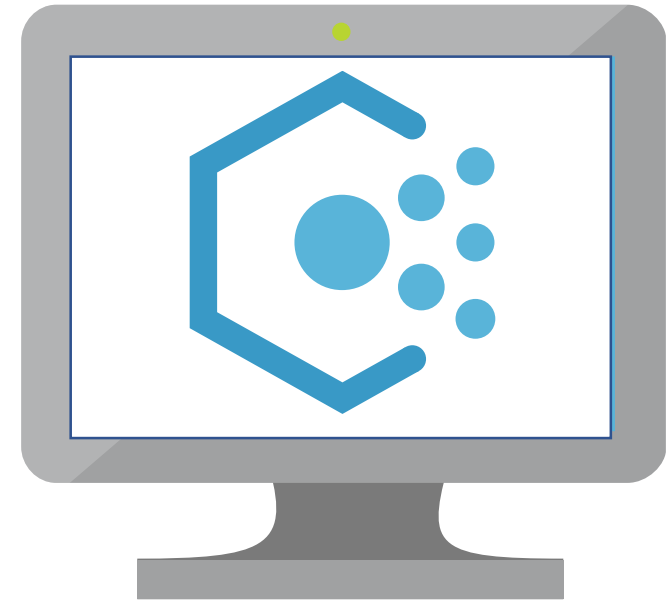
- In Portal: Microsoft.GuestConfiguration
- Powershell: `Register-AzResourceProvider -ProviderNamespace 'Microsoft.GuestConfiguration'`

## Creates 2 Azure Policies

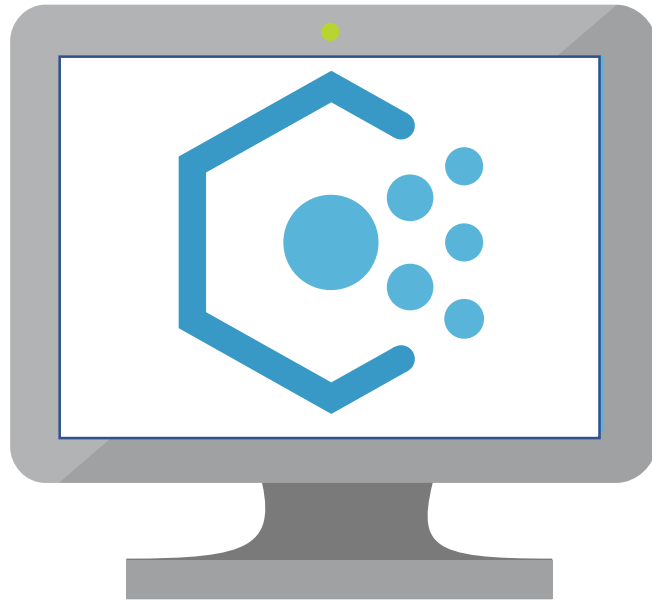
AuditIfNotExists & DeployIfNotExists policy:

Resources:

1. `Microsoft.Compute/virtualMachines/providers/guestConfigurationAssignments`
2. `"identity":{  
    "type": "SystemAssigned"  
}`
3. `"type": "Microsoft.Compute/virtualMachines/extensions",  
    "properties":{  
        "publisher": "Microsoft.GuestConfiguration"  
    }  
}`



# Azure Policies: Guest Configuration



## Powershell modules

Install-Module GPRegistryPolicyParser  
Install-Module BaselineManagement  
Install-Module PSDscResources

Install-Module GuestConfiguration

Install Azure AZ modules

## Diagnostics

Install-Module -Name GuestConfigurationTroubleshooter  
Install-Module Az.GuestConfiguration (beta)

```
Get-GuestConfigurationPolicyHealth -ResourceGroupName "ca-technine-demo" -VMName "wvd-serv-0"
```



**Demo**

Azure Guest Configuration





*Thank you!*



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