

# **Policy Catalog Azure Permissions List**

This document contains a list of cloud provider permissions required by each Azure policy template in the Flexera Cloud Cost Optimization Policy Catalog.

- Required permissions may change as policy templates in the catalog are updated. An up-to-date version of this PDF file is <u>available in the Flexera Policy Template Github Repository</u>.
- *Required* permissions are required for the policy template in question to work correctly; *optional* permissions enable additional functionality.
- Permissions with a green *Read Only* label are read-only, while those with a red *write* label can potentially make changes to your cloud environment.

# AKS Node Pools Without Autoscaling 3.0.6

#### **Azure Resource Manager Required Permissions:**

Microsoft.ContainerService/managedClusters/agentPools/read Read Only Microsoft.ContainerService/managedClusters/read Read Only

### Flexera Required Permissions:

billing\_center\_viewer Read Only

# AKS Node Pools Without Zero Autoscaling 3.1.6

### Azure Resource Manager Required Permissions:

Microsoft.ContainerService/managedClusters/agentPools/read Read Only Microsoft.ContainerService/managedClusters/read Read Only

### Flexera Required Permissions:

billing\_center\_viewer Read Only

# **Azure AHUB Utilization with Manual Entry 4.0.6**

### Azure Resource Manager Required Permissions:

Microsoft.Compute/virtualMachines/read Read Only

Microsoft.Compute/virtualMachines/vmSizes/read Read Only

#### Flexera Required Permissions:

billing\_center\_viewer Read Only

#### Azure Advisor Carbon Reduction Recommendations 0.1.5

#### **Azure Resource Manager Required Permissions:**

Microsoft.Advisor/recommendations/read Read Only

#### Flexera Required Permissions:

billing\_center\_viewer Read Only

### **Azure Advisor Compute Instances Recommendations 0.1.5**

#### **Azure Resource Manager Required Permissions:**

Microsoft.Advisor/recommendations/read Read Only Microsoft.Compute/virtualMachines/read Read Only

#### **Azure Resource Manager Optional Permissions:**

Microsoft.Compute/virtualMachines/write write

#### Flexera Required Permissions:

billing\_center\_viewer Read Only

# Azure Blob Storage Accounts Without Logging Enabled 3.0.5

#### **Azure Resource Manager Required Permissions:**

Microsoft.Storage/storageAccounts/read Read Only

#### **Azure Storage Required Permissions:**

Microsoft.Storage/storageAccounts/blobServices/containers/list Read Only
Microsoft.Storage/storageAccounts/blobServices/containers/properties/read Read Only

#### Flexera Required Permissions:

billing\_center\_viewer Read Only

# Azure Blob Storage Accounts Without Soft Delete Enabled 3.0.5

### **Azure Resource Manager Required Permissions:**

Microsoft.Storage/storageAccounts/read Read Only

#### Flexera Required Permissions:

billing\_center\_viewer Read Only

### **Azure Blob Storage Optimization 4.0.8**

#### **Azure Resource Manager Required Permissions:**

Microsoft.Storage/storageAccounts/read Read Only

#### **Azure Storage Required Permissions:**

Microsoft.Storage/storageAccounts/blobServices/containers/blobs/read Read Only Microsoft.Storage/storageAccounts/blobServices/containers/list Read Only

#### **Azure Storage Optional Permissions:**

Microsoft.Storage/storageAccounts/blobServices/containers/blobs/delete *write* Microsoft.Storage/storageAccounts/blobServices/containers/blobs/write *write* 

#### Flexera Required Permissions:

billing\_center\_viewer Read Only

### Azure Bring-Your-Own-License (BYOL) Report 0.3.6

### Flexera Required Permissions:

billing\_center\_viewer Read Only

### **Azure Cheaper Regions 1.0.4**

### Flexera Required Permissions:

billing\_center\_viewer Read Only

# **Azure China Common Bill Ingestion 2.0.5**

### **Azure China Enterprise Agreement Required Permissions:**

Enterprise Agreement Read Only

### Flexera Required Permissions:

billing\_center\_viewer Read Only

# Azure Compute Instances Time Powered Off Report 0.2.5

### **Azure Resource Manager Required Permissions:**

Microsoft.Compute/virtualMachines/read Read Only

#### **Azure Resource Manager Optional Permissions:**

Microsoft.Compute/virtualMachines/delete *write*Microsoft.Compute/virtualMachines/powerOff/action *write*Microsoft.Compute/virtualMachines/write *write* 

#### Flexera Required Permissions:

billing\_center\_viewer Read Only

#### Azure Credential 0.1.5

#### **Azure Resource Manager Required Permissions:**

Microsoft.Resources/subscriptions/read Read Only

#### Flexera Required Permissions:

billing\_center\_viewer Read Only

### Azure Data Lake Optimization 0.1.4

#### **Azure Resource Manager Required Permissions:**

Microsoft.Storage/storageAccounts/read Read Only

#### **Azure Storage Required Permissions:**

Microsoft.Storage/storageAccounts/blobServices/containers/blobs/read Read Only Microsoft.Storage/storageAccounts/blobServices/containers/list Read Only

#### **Azure Storage Optional Permissions:**

Microsoft.Storage/storageAccounts/blobServices/containers/blobs/delete *write* Microsoft.Storage/storageAccounts/blobServices/containers/blobs/write *write* 

#### Flexera Required Permissions:

billing\_center\_viewer Read Only

# **Azure Databricks Rightsize Compute Instances** 0.5.0

#### **Azure Resource Manager Required Permissions:**

Microsoft.Compute/skus/read Read Only
Microsoft.Compute/virtualMachines/read Read Only
Microsoft.Insights/metrics/read Read Only

#### Flexera Required Permissions:

### Azure Deprecated Storage Accounts 0.1.0

#### **Azure Resource Manager Required Permissions:**

Microsoft.Resources/subscriptions/read Read Only Microsoft.Storage/storageAccounts/read Read Only

#### Flexera Required Permissions:

billing\_center\_viewer Read Only

### **Azure Disallowed Regions 4.1.6**

#### **Azure Resource Manager Required Permissions:**

Microsoft.Compute/virtualMachines/read Read Only

### **Azure Resource Manager Optional Permissions:**

Microsoft.Compute/virtualMachines/write write

#### Flexera Required Permissions:

billing\_center\_viewer Read Only

### **Azure Expiring Certificates 4.0.6**

#### **Azure Resource Manager Required Permissions:**

Microsoft.Web/certificates/read Read Only

#### **Azure Resource Manager Optional Permissions:**

Microsoft.Web/certificates/delete write

#### Flexera Required Permissions:

billing\_center\_viewer Read Only

### **Azure Expiring Reserved Instances 3.0.4**

#### Flexera Required Permissions:

billing\_center\_viewer Read Only

### **Azure Expiring Savings Plans 0.1.5**

Microsoft.Billing/billingAccounts/read Read Only

#### Flexera Required Permissions:

billing\_center\_viewer Read Only

#### Azure Guest Users 3.0.5

#### **Microsoft Graph Required Permissions:**

Directory.Read.All Read Only User.Read.All Read Only

#### Flexera Required Permissions:

billing\_center\_viewer Read Only

### **Azure Hybrid Use Benefit for Linux Server** 5.1.7

#### **Azure Resource Manager Required Permissions:**

Microsoft.Compute/virtualMachines/read Read Only

#### **Azure Resource Manager Optional Permissions:**

Microsoft.Compute/virtualMachines/write write

### Flexera Required Permissions:

billing\_center\_viewer Read Only

### **Azure Hybrid Use Benefit for SQL** 4.3.4

#### **Azure Resource Manager Required Permissions:**

Microsoft.Sql/managedInstances/read Read Only
Microsoft.Sql/servers/read Read Only
Microsoft.SqlVirtualMachine/sqlVirtualMachines/read Read Only

#### **Azure Resource Manager Optional Permissions:**

Microsoft.Sql/managedInstances/write write
Microsoft.Sql/servers/write write
Microsoft.SqlVirtualMachine/sqlVirtualMachines/write write

### Flexera Required Permissions:

### Azure Hybrid Use Benefit for Windows Server 5.2.7

#### **Azure Resource Manager Required Permissions:**

Microsoft.Compute/virtualMachines/read Read Only

#### **Azure Resource Manager Optional Permissions:**

Microsoft.Compute/virtualMachines/write write

#### Flexera Required Permissions:

billing\_center\_viewer Read Only

### **Azure Idle Compute Instances** 5.5.7

#### **Azure Resource Manager Required Permissions:**

Microsoft.Compute/virtualMachines/read Read Only Microsoft.Insights/metrics/read Read Only

#### **Azure Resource Manager Optional Permissions:**

Microsoft.Compute/virtualMachines/write write

#### Flexera Required Permissions:

billing\_center\_viewer Read Only

# Azure Instances not running FlexNet Inventory Agent 4.2.4

### **Azure Resource Manager Required Permissions:**

Microsoft.Compute/virtualMachines/read Read Only

### **Azure Long Running Instances** 6.1.6

### **Azure Resource Manager Required Permissions:**

Microsoft. Compute/virtual Machines/read Read Only

### **Azure Resource Manager Optional Permissions:**

Microsoft.Compute/virtualMachines/write write

### Flexera Required Permissions:

billing\_center\_viewer Read Only

# **Azure Long Stopped Compute Instances** 6.0.5

Microsoft.Compute/disks/read Read Only

Microsoft.Compute/virtualMachines/instanceView/read Read Only

Microsoft.Compute/virtualMachines/read Read Only

Microsoft.Insights/eventtypes/management/read Read Only

Microsoft.Resources/subscriptions/read Read Only

#### **Azure Resource Manager Optional Permissions:**

Microsoft.Compute/virtualMachines/delete write

#### Flexera Required Permissions:

billing\_center\_viewer Read Only

### Azure Missing Subscriptions 0.1.5

#### **Azure Resource Manager Required Permissions:**

Microsoft.Resources/subscriptions/read Read Only

#### Flexera Required Permissions:

billing\_center\_viewer Read Only

### Azure MySQL Flexible Servers Without Secure TLS 3.0.5

#### **Azure Resource Manager Required Permissions:**

Microsoft.DBforMySQL/flexibleServers/configurations/read Read Only Microsoft.DBforMySQL/flexibleServers/read Read Only

Microsoft.Resources/subscriptions/read Read Only

#### Flexera Required Permissions:

billing\_center\_viewer Read Only

# Azure MySQL Servers Without Enforced SSL 3.0.5

### **Azure Resource Manager Required Permissions:**

Microsoft.DBforMySQL/servers/read Read Only Microsoft.Resources/subscriptions/read Read Only

#### Flexera Required Permissions:

billing\_center\_viewer Read Only

# Azure Network Security Groups With Inbound RDP Open 3.0.5

Microsoft.Network/networkSecurityGroups/read Read Only

#### Flexera Required Permissions:

billing\_center\_viewer Read Only

### Azure Network Security Groups With Inbound SSH Open 3.0.5

#### **Azure Resource Manager Required Permissions:**

Microsoft.Network/networkSecurityGroups/read Read Only

#### Flexera Required Permissions:

billing\_center\_viewer Read Only

### **Azure New Marketplace Products 0.5.3**

#### Flexera Required Permissions:

billing\_center\_viewer Read Only

### **Azure Old Snapshots** 7.2.6

#### **Azure Resource Manager Required Permissions:**

Microsoft.Compute/snapshots/read Read Only

#### **Azure Resource Manager Optional Permissions:**

Microsoft.Compute/snapshots/delete write

#### Flexera Required Permissions:

billing\_center\_viewer Read Only

### **Azure Overutilized Compute Instances 0.1.4**

#### **Azure Resource Manager Required Permissions:**

Microsoft.Compute/locations/vmSizes/read Read Only
Microsoft.Compute/skus/read Read Only
Microsoft.Compute/virtualMachines/read Read Only
Microsoft.Insights/metrics/read Read Only

### Azure Resource Manager Optional Permissions:

Microsoft.Compute/virtualMachines/write write

#### Flexera Required Permissions:

billing\_center\_viewer Read Only

### **Azure Policy Audit 3.0.6**

#### **Azure Resource Manager Required Permissions:**

Microsoft.Authorization/policyAssignments/read Read Only Microsoft.Authorization/policyDefinitions/read Read Only

#### Flexera Required Permissions:

billing\_center\_viewer Read Only

### Azure PostgreSQL Servers With Bad Log Settings 3.0.5

#### **Azure Resource Manager Required Permissions:**

Microsoft.DBForPostgreSql/servers/read Read Only Microsoft.Resources/subscriptions/read Read Only

#### Flexera Required Permissions:

billing\_center\_viewer Read Only

### Azure PostgreSQL Servers With Insufficient Log Retention 3.0.5

#### **Azure Resource Manager Required Permissions:**

Microsoft.DBForPostgreSql/servers/read Read Only Microsoft.Resources/subscriptions/read Read Only

#### Flexera Required Permissions:

billing\_center\_viewer Read Only

# **Azure PostgreSQL Servers Without Connection Throttling** 3.0.5

#### **Azure Resource Manager Required Permissions:**

Microsoft.DBForPostgreSql/servers/read Read Only Microsoft.Resources/subscriptions/read Read Only

#### Flexera Required Permissions:

billing\_center\_viewer Read Only

# Azure PostgreSQL Servers Without Infrastructure Encryption 3.0.5

Microsoft.DBForPostgreSql/servers/read Read Only Microsoft.Resources/subscriptions/read Read Only

#### Flexera Required Permissions:

billing\_center\_viewer Read Only

### Azure Publicly-Accessible Blob Containers 3.0.6

#### **Azure Resource Manager Required Permissions:**

Microsoft.Storage/storageAccounts/read Read Only

#### **Azure Storage Required Permissions:**

Microsoft.Storage/storageAccounts/blobServices/containers/list Read Only Microsoft.Storage/storageAccounts/blobServices/containers/properties/read Read Only

#### Flexera Required Permissions:

billing\_center\_viewer Read Only

### Azure Publicly-Accessible SQL Managed Instances 3.0.5

### Azure Resource Manager Required Permissions:

Microsoft.Resources/subscriptions/read Read Only Microsoft.Sql/managedInstances/read Read Only

### **Azure Resource Manager Optional Permissions:**

Microsoft.Sql/managedInstances/delete write Microsoft.Sql/managedInstances/update write

### Flexera Required Permissions:

billing\_center\_viewer Read Only

# Azure Queue Storage Accounts Without Logging Enabled 3.0.5

### **Azure Resource Manager Required Permissions:**

Microsoft.Storage/storageAccounts/read Read Only

### **Azure Storage Required Permissions:**

Storage Queue Data Reader Read Only

### Flexera Required Permissions:

### **Azure Regulatory Compliance 3.0.5**

#### **Azure Resource Manager Required Permissions:**

Microsoft.Security/regulatoryComplianceStandards/read Read Only

#### Flexera Required Permissions:

billing\_center\_viewer Read Only

#### Azure Reserved Instances Recommendations 4.2.4

#### **Azure Resource Manager Required Permissions:**

Microsoft.Consumption/reservationRecommendations/read Read Only

#### **Azure Resource Manager Optional Permissions:**

Microsoft.Billing/billingAccounts/read Read Only

#### Flexera Required Permissions:

billing\_center\_viewer Read Only

#### Azure Reserved Instances Utilization 4.0.0

#### Flexera Required Permissions:

billing\_center\_viewer Read Only

#### Azure Reserved Instances Utilization MCA 1.0.5

#### **Azure Resource Manager Required Permissions:**

Microsoft.Capacity/reservations/read Read Only

### Azure Rightsize Compute Instances 6.2.5

#### **Azure Resource Manager Required Permissions:**

Microsoft.Compute/locations/vmSizes/read Read Only Microsoft.Compute/skus/read Read Only Microsoft.Compute/virtualMachines/read Read Only Microsoft.Insights/metrics/read Read Only

#### **Azure Resource Manager Optional Permissions:**

Microsoft.Compute/virtualMachines/delete *write*Microsoft.Compute/virtualMachines/powerOff/action *write* 

Microsoft.Compute/virtualMachines/start/action write Microsoft.Compute/virtualMachines/write write

#### Flexera Required Permissions:

billing\_center\_viewer Read Only

# Azure Rightsize Managed Disks 2.6.4

#### **Azure Resource Manager Required Permissions:**

Microsoft.Compute/disks/read Read Only
Microsoft.Compute/virtualMachines/read Read Only
Microsoft.Insights/metrics/read Read Only

### Flexera Required Permissions:

billing\_center\_viewer Read Only

### Azure Rightsize MySQL Flexible Servers 0.2.6

#### **Azure Resource Manager Required Permissions:**

Microsoft.DBforMySQL/flexibleServers/read Read Only Microsoft.Insights/metrics/read Read Only

### **Azure Resource Manager Optional Permissions:**

Microsoft.DBforMySQL/flexibleServers/delete write Microsoft.DBforMySQL/flexibleServers/update write

### Flexera Required Permissions:

billing\_center\_viewer Read Only

# **Azure Rightsize MySQL Single Servers** 0.2.6

### Azure Resource Manager Required Permissions:

Microsoft.DBforMySQL/servers/read Read Only Microsoft.Insights/metrics/read Read Only

### Azure Resource Manager Optional Permissions:

Microsoft.DBforMySQL/servers/delete *write* Microsoft.DBforMySQL/servers/update *write* 

### Flexera Required Permissions:

### Azure Rightsize NetApp Resources 2.0.9

#### **Azure Resource Manager Required Permissions:**

Microsoft.Insights/metrics/read Read Only
Microsoft.NetApp/netAppAccounts/capacityPools/read Read Only
Microsoft.NetApp/netAppAccounts/capacityPools/volumes/read Read Only

#### **Azure Resource Manager Optional Permissions:**

Microsoft.NetApp/netAppAccounts/capacityPools/volumes/write *write* Microsoft.NetApp/netAppAccounts/capacityPools/write *write* 

#### Flexera Required Permissions:

billing\_center\_viewer Read Only

### Azure Rightsize SQL Database Storage 0.1.7

#### **Azure Resource Manager Required Permissions:**

Microsoft.Insights/metrics/read Read Only
Microsoft.Sql/servers/databases/metrics/read Read Only
Microsoft.Sql/servers/databases/read Read Only
Microsoft.Sql/servers/read Read Only

### Flexera Required Permissions:

billing\_center\_viewer Read Only

### Azure Rightsize SQL Databases 6.0.6

### Azure Resource Manager Required Permissions:

Microsoft.Insights/metrics/read Read Only
Microsoft.Sql/servers/databases/metrics/read Read Only
Microsoft.Sql/servers/databases/read Read Only
Microsoft.Sql/servers/read Read Only

### Azure Resource Manager Optional Permissions:

Microsoft.Sql/servers/databases/delete *write* Microsoft.Sql/servers/databases/update *write* 

### Flexera Required Permissions:

billing\_center\_viewer Read Only

# Azure Rightsize SQL Managed Instance Storage 0.2.7

Microsoft.Insights/metrics/read Read Only
Microsoft.Sql/managedInstances/metrics/read Read Only
Microsoft.Sql/managedInstances/read Read Only

#### **Azure Resource Manager Optional Permissions:**

Microsoft.Sql/managedInstances/update write

#### Flexera Required Permissions:

billing\_center\_viewer Read Only

### Azure Rightsize SQL Managed Instances 0.3.6

#### **Azure Resource Manager Required Permissions:**

Microsoft.Insights/metrics/read Read Only
Microsoft.Sql/managedInstances/metrics/read Read Only
Microsoft.Sql/managedInstances/read Read Only

#### **Azure Resource Manager Optional Permissions:**

Microsoft.Sql/managedInstances/delete *write* Microsoft.Sql/managedInstances/update *write* 

### Flexera Required Permissions:

billing\_center\_viewer Read Only

# Azure Rightsize Synapse SQL Pools 0.1.6

### **Azure Resource Manager Required Permissions:**

Microsoft.Insights/metrics/read Read Only
Microsoft.Synapse/sqlPools/delete Read Only
Microsoft.Synapse/sqlPools/pause/action Read Only
Microsoft.Synapse/sqlPools/read Read Only
Microsoft.Synapse/sqlPools/resume/action Read Only
Microsoft.Synapse/sqlPools/write Read Only
Microsoft.Synapse/workspaces/read Read Only

### Flexera Required Permissions:

billing\_center\_viewer Read Only

# Azure Rule-Based Dimension From Resource Group Tags 2.1.0

# **Azure Resource Manager Required Permissions:**

Microsoft.Resources/subscriptions/providers/read Read Only Microsoft.Resources/subscriptions/resources/read Read Only Microsoft.Resources/tags/read Read Only

#### Flexera Required Permissions:

billing\_center\_viewer Read Only
observer Read Only
rule\_based\_dimensions\_manager Read Only

### Azure Rule-Based Dimension From Subscription Tags 2.1.0

#### **Azure Resource Manager Required Permissions:**

Microsoft.Resources/subscriptions/providers/read Read Only Microsoft.Resources/subscriptions/resources/read Read Only Microsoft.Resources/tags/read Read Only

### Flexera Required Permissions:

billing\_center\_viewer Read Only
observer Read Only
rule\_based\_dimensions\_manager Read Only

# **Azure SQL Databases Without Encryption 3.0.5**

#### **Azure Resource Manager Required Permissions:**

Microsoft.Resources/subscriptions/read Read Only
Microsoft.Sql/servers/databases/read Read Only
Microsoft.Sql/servers/databases/transparentDataEncryption/read Read Only
Microsoft.Sql/servers/read Read Only

### Flexera Required Permissions:

billing\_center\_viewer Read Only

# Azure SQL Servers Vulnerability Assessment Does Not Notify Admins 3.0.5

### Azure Resource Manager Required Permissions:

Microsoft.Resources/subscriptions/read Read Only
Microsoft.Sql/servers/read Read Only
Microsoft.Sql/servers/vulnerabilityAssessments/read Read Only

### Flexera Required Permissions:

# **Azure SQL Servers Vulnerability Assessment Without Email Notifications** 3.0.5

#### **Azure Resource Manager Required Permissions:**

Microsoft.Resources/subscriptions/read Read Only
Microsoft.Sql/servers/read Read Only
Microsoft.Sql/servers/vulnerabilityAssessments/read Read Only

#### Flexera Required Permissions:

billing\_center\_viewer Read Only

### Azure SQL Servers Vulnerability Assessment Without Periodic Scans 3.0.5

#### **Azure Resource Manager Required Permissions:**

Microsoft.Resources/subscriptions/read Read Only
Microsoft.Sql/servers/read Read Only
Microsoft.Sql/servers/vulnerabilityAssessments/read Read Only

#### Flexera Required Permissions:

billing\_center\_viewer Read Only

### Azure SQL Servers With Insufficient Auditing Retention 3.0.5

#### **Azure Resource Manager Required Permissions:**

Microsoft.Resources/subscriptions/read Read Only Microsoft.Sql/servers/read Read Only

#### Flexera Required Permissions:

billing\_center\_viewer Read Only

# Azure SQL Servers Without Active Directory Admin 3.0.5

### Azure Resource Manager Required Permissions:

Microsoft.Resources/subscriptions/read Read Only Microsoft.Sql/servers/administrators/read Read Only Microsoft.Sql/servers/read Read Only

#### Flexera Required Permissions:

# Azure SQL Servers Without Advanced Threat Protection (ATP) 3.0.5

#### **Azure Resource Manager Required Permissions:**

Microsoft.Resources/subscriptions/read Read Only
Microsoft.Sql/servers/read Read Only
Microsoft.Sql/servers/securityAlertPolicies/read Read Only

#### Flexera Required Permissions:

billing\_center\_viewer Read Only

### Azure SQL Servers Without Auditing Enabled 3.0.5

#### **Azure Resource Manager Required Permissions:**

Microsoft.Resources/subscriptions/read Read Only Microsoft.Sql/servers/read Read Only

#### Flexera Required Permissions:

billing\_center\_viewer Read Only

### **Azure SQL Servers Without Elastic Pools 3.0.5**

#### **Azure Resource Manager Required Permissions:**

Microsoft.Sql/servers/read Read Only

#### Flexera Required Permissions:

billing\_center\_viewer Read Only

# Azure SQL Servers Without Vulnerability Assessment (VA) Enabled 3.0.5

#### **Azure Resource Manager Required Permissions:**

Microsoft.Resources/subscriptions/read Read Only
Microsoft.Sql/servers/read Read Only
Microsoft.Sql/servers/vulnerabilityAssessments/read Read Only

#### Flexera Required Permissions:

billing\_center\_viewer Read Only

# Azure Savings Plan Recommendations 3.1.6

### **Azure Resource Manager Required Permissions:**

Microsoft.CostManagement/benefitRecommendations/read Read Only

#### Flexera Required Permissions:

billing\_center\_viewer Read Only

### **Azure Savings Plan Utilization 0.1.5**

#### **Azure Resource Manager Required Permissions:**

Microsoft.Billing/billingAccounts/read Read Only

#### Flexera Required Permissions:

billing\_center\_viewer Read Only

### **Azure Savings Realized from Reservations 3.9.6**

#### Flexera Required Permissions:

billing\_center\_viewer Read Only

#### **Azure Schedule Instance** 7.0.8

#### **Azure Resource Manager Required Permissions:**

Microsoft.Compute/virtualMachines/deallocate/action write
Microsoft.Compute/virtualMachines/delete write
Microsoft.Compute/virtualMachines/read Read Only
Microsoft.Compute/virtualMachines/start/action write

Microsoft.Compute/virtualMachines/write write

#### Flexera Required Permissions:

billing center viewer Read Only

# **Azure Storage Accounts Allowing Default Network Access** 3.0.5

### **Azure Resource Manager Required Permissions:**

Microsoft.Storage/storageAccounts/read Read Only

#### Flexera Required Permissions:

billing\_center\_viewer Read Only

# Azure Storage Accounts Without Secure TLS 3.0.5

### **Azure Resource Manager Required Permissions:**

Microsoft.Storage/storageAccounts/read Read Only

#### Flexera Required Permissions:

billing\_center\_viewer Read Only

### Azure Storage Accounts Without Secure Transfer 3.0.5

#### **Azure Resource Manager Required Permissions:**

Microsoft.Storage/storageAccounts/read Read Only

#### Flexera Required Permissions:

billing\_center\_viewer Read Only

### Azure Storage Accounts Without Trusted Microsoft Services Access 3.0.5

#### **Azure Resource Manager Required Permissions:**

Microsoft.Storage/storageAccounts/read Read Only

#### Flexera Required Permissions:

billing\_center\_viewer Read Only

### Azure Storage Accounts without Lifecycle Management Policies 4.0.6

#### **Azure Resource Manager Required Permissions:**

Microsoft.Storage/storageAccounts/read Read Only

#### Flexera Required Permissions:

billing\_center\_viewer Read Only

# **Azure Subscriptions Without High Severity Alerts 3.0.4**

### **Azure Resource Manager Required Permissions:**

Microsoft.Resources/subscriptions/read Read Only Microsoft.Security/securityContacts/read Read Only

#### Flexera Required Permissions:

billing\_center\_viewer Read Only

# Azure Subscriptions Without Log Analytics Auto-Provisioning 3.0.5

#### **Azure Resource Manager Required Permissions:**

Microsoft.Resources/subscriptions/read Read Only

Microsoft.Security/autoProvisioningSettings/read Read Only

#### Flexera Required Permissions:

billing\_center\_viewer Read Only

# **Azure Subscriptions Without Owner Security Alerts 3.0.5**

### **Azure Resource Manager Required Permissions:**

Microsoft.Resources/subscriptions/read Read Only Microsoft.Security/securityContacts/read Read Only

#### Flexera Required Permissions:

billing\_center\_viewer Read Only

### Azure Subscriptions Without Security Contact Email 3.0.5

#### **Azure Resource Manager Required Permissions:**

Microsoft.Resources/subscriptions/read Read Only Microsoft.Security/securityContacts/read Read Only

#### Flexera Required Permissions:

billing\_center\_viewer Read Only

### Azure Superseded Compute Instances 3.0.2

#### **Azure Resource Manager Required Permissions:**

Microsoft.Compute/virtualMachines/read Read Only

#### **Azure Resource Manager Optional Permissions:**

Microsoft.Compute/virtualMachines/write write

#### Flexera Required Permissions:

billing\_center\_viewer Read Only

# Azure Table Storage Accounts Without Logging Enabled 3.0.5

#### **Azure Resource Manager Required Permissions:**

Microsoft.Storage/storageAccounts/read Read Only

#### **Azure Storage Required Permissions:**

Storage Table Data Reader Read Only

#### Flexera Required Permissions:

billing\_center\_viewer Read Only

### **Azure Tag Cardinality Report 3.2.6**

#### **Azure Resource Manager Required Permissions:**

Microsoft.Resources/resourceGroups/read Read Only
Microsoft.Resources/subscriptions/providers/read Read Only
Microsoft.Resources/subscriptions/read Read Only
Microsoft.Resources/subscriptions/resources/read Read Only
Microsoft.Resources/tags/read Read Only

#### Flexera Required Permissions:

billing\_center\_viewer Read Only

### Azure Untagged Resources 3.3.4

#### **Azure Resource Manager Required Permissions:**

Microsoft.Resources/subscriptions/providers/read Read Only Microsoft.Resources/subscriptions/resourceGroups/read Read Only Microsoft.Resources/tags/read Read Only Microsoft.Resources/tags/read Read Only

### **Azure Resource Manager Optional Permissions:**

Microsoft.Resources/tags/write write

### Flexera Required Permissions:

billing\_center\_viewer Read Only

### **Azure Untagged Virtual Machines 1.1.6**

#### **Azure Resource Manager Required Permissions:**

Microsoft.Compute/virtualMachines/read Read Only Microsoft.Resources/tags/read Read Only

#### **Azure Resource Manager Optional Permissions:**

Microsoft.Compute/virtualMachines/write *write* Microsoft.Resources/tags/write *write* 

#### Flexera Required Permissions:

### Azure Unused App Service Plans 0.1.6

#### **Azure Resource Manager Required Permissions:**

Microsoft.Web/serverfarms/read Read Only Microsoft.Web/sites/read Read Only

#### **Azure Resource Manager Optional Permissions:**

Microsoft.Web/serverfarms/delete write

#### Flexera Required Permissions:

billing\_center\_viewer Read Only

#### **Azure Unused Firewalls** 0.2.7

#### **Azure Resource Manager Required Permissions:**

Microsoft.Insights/metrics/read Read Only
Microsoft.Network/azureFirewalls/read Read Only

### **Azure Resource Manager Optional Permissions:**

Microsoft.Network/azureFirewalls/delete write

#### Flexera Required Permissions:

billing\_center\_viewer Read Only

#### Azure Unused IP Addresses 7.3.6

#### **Azure Resource Manager Required Permissions:**

Microsoft.Insights/eventtypes/values/read Read Only Microsoft.Network/publicIPAddresses/read Read Only

#### **Azure Resource Manager Optional Permissions:**

Microsoft.Network/publicIPAddresses/delete write

#### Flexera Required Permissions:

billing\_center\_viewer Read Only

#### Azure Unused Load Balancers 0.1.7

#### **Azure Resource Manager Required Permissions:**

Microsoft.Insights/metrics/read Read Only
Microsoft.Network/loadBalancers/read Read Only

#### **Azure Resource Manager Optional Permissions:**

Microsoft.Network/loadBalancers/delete write

#### Flexera Required Permissions:

billing\_center\_viewer Read Only

# **Azure Unused SQL Databases** 5.4.7

#### **Azure Resource Manager Required Permissions:**

Microsoft.Insights/metrics/read Read Only
Microsoft.Sql/servers/databases/metrics/read Read Only
Microsoft.Sql/servers/databases/read Read Only

#### **Azure Resource Manager Optional Permissions:**

Microsoft.Sql/servers/databases/delete write

#### Flexera Required Permissions:

billing\_center\_viewer Read Only

### Azure Unused Storage Accounts 0.1.3

### Azure Resource Manager Required Permissions:

Microsoft.Insights/metrics/read Read Only
Microsoft.Resources/subscriptions/read Read Only
Microsoft.Storage/storageAccounts/read Read Only

### **Azure Resource Manager Optional Permissions:**

Microsoft.Storage/storageAccounts/delete write

### Flexera Required Permissions:

billing\_center\_viewer Read Only

# Azure Unused Virtual Network Gateways 0.1.5

## Azure Resource Manager Required Permissions:

Microsoft.Network/connections/read Read Only
Microsoft.Network/virtualNetworkGateways/read Read Only

### Azure Resource Manager Optional Permissions:

Microsoft.Network/virtualNetworkGateways/delete write

### Flexera Required Permissions:

#### Azure Unused Volumes 8.2.7

#### **Azure Resource Manager Required Permissions:**

Microsoft.Compute/disks/read Read Only Microsoft.Insights/metrics/read Read Only

#### **Azure Resource Manager Optional Permissions:**

Microsoft.Compute/disks/write write
Microsoft.Compute/snapshots/write write
Microsoft.Compute/virtualMachines/read write
Microsoft.Compute/virtualMachines/write write

#### Flexera Required Permissions:

billing\_center\_viewer Read Only

### Azure Usage Report - Amount of Instance Memory Used 2.1.8

#### Flexera Required Permissions:

billing\_center\_viewer Read Only

### **Azure Usage Report - Instance Time Used 1.0.8**

### Flexera Required Permissions:

billing\_center\_viewer Read Only

### Azure Usage Report - Number of Instance Hours Used 2.1.7

### Flexera Required Permissions:

billing\_center\_viewer Read Only

# **Azure Usage Report - Number of Instance vCPUs Used** 2.1.8

### Flexera Required Permissions:

billing\_center\_viewer Read Only

# **Azure VMs Not Using Managed Disks 4.0.5**

Microsoft.Compute/virtualMachines/read Read Only

#### Flexera Required Permissions:

billing\_center\_viewer Read Only

### Azure Web Apps With Unoptimized Scaling 0.2.5

#### **Azure Resource Manager Required Permissions:**

Microsoft.Insights/autoscalesettings/read Read Only Microsoft.Web/sites/read Read Only

#### **Flexera Required Permissions:**

billing\_center\_viewer Read Only

### Azure Web Apps Without Secure TLS 3.0.5

#### **Azure Resource Manager Required Permissions:**

Microsoft.Web/sites/read Read Only

#### Flexera Required Permissions:

billing\_center\_viewer Read Only

# **Common Bill Ingestion from Azure Blob Storage** 0.2.3

### **Azure Storage Required Permissions:**

Microsoft.Storage/storageAccounts/blobServices/containers/blobs/read Read Only

### Flexera Required Permissions:

billing\_center\_viewer Read Only csm\_bill\_upload\_admin Read Only

# Common Bill Ingestion from Azure Blob Storage (Iterating) 0.1.1

#### **Azure Storage Required Permissions:**

Microsoft.Storage/storageAccounts/blobServices/containers/blobs/list/action Read Only Microsoft.Storage/storageAccounts/blobServices/containers/blobs/read Read Only Microsoft.Storage/storageAccounts/blobServices/containers/read Read Only

### Flexera Required Permissions: