



# 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 [available in the Flexera Policy Template Github Repository](#).
  - *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.
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## AKS Node Pools Without Autoscaling 3.1.0

### 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*

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## AKS Node Pools Without Zero Autoscaling 3.2.0

### 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*

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## Azure AHUB Utilization with Manual Entry 4.1.0

### 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*

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## Azure Advisor Carbon Reduction Recommendations 0.2.0

### Azure Resource Manager Required Permissions:

Microsoft.Advisor/recommendations/read *Read Only*

### Flexera Required Permissions:

billing\_center\_viewer *Read Only*

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## Azure Advisor Compute Instances Recommendations 0.2.0

### 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*

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## 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*

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## 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*

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## Azure Blob Storage Optimization 4.0.9

### 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*

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### **Azure Bring-Your-Own-License (BYOL) Report** 0.4.0

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

billing\_center\_viewer *Read Only*

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### **Azure Cheaper Regions** 1.0.4

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

billing\_center\_viewer *Read Only*

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### **Azure Compute Instances Time Powered Off Report** 0.3.0

#### **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*

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### **Azure Credential** 0.1.5

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

Microsoft.Resources/subscriptions/read *Read Only*

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

billing\_center\_viewer *Read Only*

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### **Azure Data Lake Optimization** 0.2.0

#### **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*

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## **Azure Databricks Rightsize Compute Instances** 0.6.0

### **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:**

billing\_center\_viewer *Read Only*

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## **Azure Deprecated Storage Accounts** 0.2.0

### **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*

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## **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*

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## **Azure Expiring Certificates** 4.1.0

### **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*

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## Azure Expiring Reserved Instances 3.1.0

### Flexera Required Permissions:

billing\_center\_viewer *Read Only*

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## Azure Expiring Savings Plans 0.2.0

### Azure Resource Manager Required Permissions:

Microsoft.Billing/billingAccounts/read *Read Only*

### Flexera Required Permissions:

billing\_center\_viewer *Read Only*

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## 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*

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## Azure Hybrid Use Benefit for Linux Server 5.2.0

### 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*

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## Azure Hybrid Use Benefit for SQL 4.4.0

### 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:**

billing\_center\_viewer *Read Only*

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## **Azure Hybrid Use Benefit for Windows Server 5.3.0**

### **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*

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## **Azure Instances not running FlexNet Inventory Agent 4.3.0**

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

Microsoft.Compute/virtualMachines/read *Read Only*

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## **Azure Long Running Instances 6.2.0**

### **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*

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## **Azure Long Stopped Compute Instances 6.1.0**

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

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*

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## 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*

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## 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*

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## 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*

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## Azure Network Security Groups With Inbound RDP Open 3.0.5

**Azure Resource Manager Required Permissions:**

Microsoft.Network/networkSecurityGroups/read *Read Only*

**Flexera Required Permissions:**

billing\_center\_viewer *Read Only*

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## 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*

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## Azure New Marketplace Products 0.6.0

**Flexera Required Permissions:**

billing\_center\_viewer *Read Only*

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## Azure Old Snapshots 7.3.0

**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*

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## Azure Overutilized Compute Instances 0.2.0

**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*

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## Azure Policy Audit 3.1.0

**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*

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## 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*

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## 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*

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## 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*

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## Azure PostgreSQL Servers Without Infrastructure Encryption 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*

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## 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*

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## 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*

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## 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:**

billing\_center\_viewer *Read Only*

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## 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*

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## Azure Reserved Instances Recommendations 4.3.0

**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*

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## Azure Reserved Instances Utilization 4.1.0

**Flexera Required Permissions:**

billing\_center\_viewer *Read Only*

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## Azure Rightsize Compute Instances 6.3.0

### 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*

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## Azure Rightsize Managed Disks 2.7.0

### 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*

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## Azure Rightsize MySQL Flexible Servers 0.3.0

### 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*

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## Azure Rightsize MySQL Single Servers 0.3.0

### 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:**  
billing\_center\_viewer *Read Only*

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## Azure Rightsize NetApp Resources 2.1.0

**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*

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## Azure Rightsize SQL Database Storage 0.2.0

**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*

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## Azure Rightsize SQL Databases 6.1.0

**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*

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## Azure Rightsize SQL Managed Instance Storage 0.3.0

### 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/update *Write*

### Flexera Required Permissions:

billing\_center\_viewer *Read Only*

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## Azure Rightsize SQL Managed Instances 0.4.0

### 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*

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## Azure Rightsize Synapse SQL Pools 0.2.0

### 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*

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## 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*

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## 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*

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## 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*

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## 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:**

billing\_center\_viewer *Read Only*

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## 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*

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## 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*

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## 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*

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## 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:**

billing\_center\_viewer *Read Only*

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## 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*

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## 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*

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## Azure SQL Servers Without Elastic Pools 3.1.0

### Azure Resource Manager Required Permissions:

Microsoft.Sql/servers/read *Read Only*

### Flexera Required Permissions:

billing\_center\_viewer *Read Only*

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## 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*

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## Azure Savings Plan Recommendations 3.2.0

### Azure Resource Manager Required Permissions:

Microsoft.CostManagement/benefitRecommendations/read *Read Only*

### Flexera Required Permissions:

billing\_center\_viewer *Read Only*

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## Azure Savings Plan Utilization 0.2.0

### Azure Resource Manager Required Permissions:

Microsoft.Billing/billingAccounts/read *Read Only*

### Flexera Required Permissions:

billing\_center\_viewer *Read Only*

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## Azure Savings Realized from Reservations 3.9.6

### Flexera Required Permissions:

billing\_center\_viewer *Read Only*

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## 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*

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## 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*

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## 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*

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## 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*

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## 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**

4.1.0

**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*

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## Azure Superseded Compute Instances 4.1.0

**Azure Resource Manager Required Permissions:**  
Microsoft.Compute/locations/vmSizes/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*

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## 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*

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## Azure Tag Cardinality Report 3.3.0

**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*

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## Azure Untagged Resources 3.4.0

**Azure Resource Manager Required Permissions:**  
Microsoft.Resources/subscriptions/providers/read *Read Only*  
Microsoft.Resources/subscriptions/resourceGroups/read *Read Only*

Microsoft.Resources/subscriptions/resources/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*

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## Azure Untagged Virtual Machines 1.2.0

**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:**  
billing\_center\_viewer *Read Only*

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## Azure Unused App Service Plans 0.2.0

**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*

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## Azure Unused Firewalls 0.3.0

**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*

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## Azure Unused IP Addresses 7.4.0

### 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*

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## Azure Unused Load Balancers 0.2.0

### 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*

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## Azure Unused Storage Accounts 0.2.0

### 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*

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## Azure Unused Virtual Network Gateways 0.2.0

### 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:

billing\_center\_viewer *Read Only*

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## Azure Unused Volumes 8.3.0

### 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*

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## Azure Usage Report - Instance Time Used 1.0.8

### Flexera Required Permissions:

billing\_center\_viewer *Read Only*

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## Azure VMs Not Using Managed Disks 4.1.0

### Azure Resource Manager Required Permissions:

Microsoft.Compute/virtualMachines/read *Read Only*

### Flexera Required Permissions:

billing\_center\_viewer *Read Only*

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## Azure Web Apps With Unoptimized Scaling 0.3.0

### 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*

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## 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*

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## **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*

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## **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:**

billing\_center\_viewer *Read Only*

csm\_bill\_upload\_admin *Read Only*

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