



# 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 3.0.6

### 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*

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## 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*

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## 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*

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## 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*

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## 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*

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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 4.0.8

### 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*

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

**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 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*

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**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*

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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 0.1.4**

### **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*

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## **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:**

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 4.0.6**

### **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*

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**Azure Expiring Reserved Instances** 3.0.4

**Flexera Required Permissions:**

billing\_center\_viewer *Read Only*

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**Azure Expiring Savings Plans** 0.1.5

**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** 5.1.7

**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*

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**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:**

billing\_center\_viewer *Read Only*

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## **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*

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## **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*

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## **Azure Instances not running FlexNet Inventory Agent 4.2.4**

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

Microsoft.Compute/virtualMachines/read *Read Only*

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## **Azure Long Running Instances 6.1.6**

### **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 Long Stopped Compute Instances 6.0.4

### 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 0.5.3**

### **Flexera Required Permissions:**

billing\_center\_viewer *Read Only*

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## **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*

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## **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*

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## **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*

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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 4.2.4**

### **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*

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## **Azure Reserved Instances Utilization 4.0.0**

## **Flexera Required Permissions:**

billing\_center\_viewer *Read Only*

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## **Azure Reserved Instances Utilization MCA 1.0.5**

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

Microsoft.Capacity/reservations/read *Read Only*

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## **Azure Rightsize Compute Instances 6.2.4**

## **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/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 2.6.4**

## **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*

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## **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*

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**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:**

billing\_center\_viewer *Read Only*

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**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*

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**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*

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## Azure Rightsize SQL Databases 6.0.5

### 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 0.2.7

### 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 0.3.6

### 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*

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## 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*

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## **Azure Rule-Based Dimension From Resource Group Tags 2.0.3**

### **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 2.0.3**

### **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 3.0.5

**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 3.1.6

### 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 0.1.5

### 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 7.0.7

### 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*

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**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*

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**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*

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**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*

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**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*

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**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 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*

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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 3.2.6**

### **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*

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## **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/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 1.1.6**

### **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:**

billing\_center\_viewer *Read Only*

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## **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*

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## 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*

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## 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*

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## 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*

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## 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*

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**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*

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**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:**

billing\_center\_viewer *Read Only*

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**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*

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

**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 Usage Report - Number of Instance Hours Used 2.1.7****Flexera Required Permissions:**

billing\_center\_viewer *Read Only*

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**Azure Usage Report - Number of Instance vCPUs Used 2.1.8****Flexera Required Permissions:**

billing\_center\_viewer *Read Only*

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**Azure VMs Not Using Managed Disks 4.0.5****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 0.2.5****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*

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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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