



# 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 2.1.0

### 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 3.0.5

### 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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