



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 3.0.2

Azure Resource Manager Required Permissions:

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

Flexera Required Permissions:

billing_center_viewer `Read Only`

AKS Node Pools Without Zero Autoscaling 3.1.2

Azure Resource Manager Required Permissions:

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

Flexera Required Permissions:

billing_center_viewer `Read Only`

Azure AHUB Utilization with Manual Entry 4.0.2

Azure Resource Manager Required Permissions:

Microsoft.Compute/virtualMachines/read `Read Only`
Microsoft.Compute/virtualMachines/vmSizes/read `Read Only`

Flexera Required Permissions:

billing_center_viewer Read Only

Azure Advisor Carbon Reduction Recommendations 0.1.1

Azure Resource Manager Required Permissions:

Microsoft.Advisor/recommendations/read Read Only

Flexera Required Permissions:

billing_center_viewer Read Only

Azure Advisor Compute Instances Recommendations 0.1.1

Azure Resource Manager Required Permissions:

Microsoft.Advisor/recommendations/read Read Only

Microsoft.Compute/virtualMachines/read Read Only

Azure Resource Manager Optional Permissions:

Microsoft.Compute/virtualMachines/write Write

Flexera Required Permissions:

billing_center_viewer Read Only

Azure Blob Storage Accounts Without Logging Enabled 3.0.1

Azure Resource Manager Required Permissions:

Microsoft.Storage/storageAccounts/read Read Only

Azure Storage Required Permissions:

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

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

Flexera Required Permissions:

billing_center_viewer Read Only

Azure Blob Storage Accounts Without Soft Delete Enabled 3.0.1

Azure Resource Manager Required Permissions:

Microsoft.Storage/storageAccounts/read Read Only

Flexera Required Permissions:

billing_center_viewer Read Only

Azure Blob Storage Optimization 4.0.4

Azure Resource Manager Required Permissions:

Microsoft.Storage/storageAccounts/read Read Only

Azure Storage Required Permissions:

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

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

Azure Storage Optional Permissions:

Microsoft.Storage/storageAccounts/blobServices/containers/blobs/delete Write

Microsoft.Storage/storageAccounts/blobServices/containers/blobs/write Write

Flexera Required Permissions:

billing_center_viewer Read Only

Azure Bring-Your-Own-License (BYOL) Report 0.3.2

Flexera Required Permissions:

billing_center_viewer Read Only

Azure Cheaper Regions 1.0.1

Flexera Required Permissions:

billing_center_viewer Read Only

Azure China Common Bill Ingestion 2.0.2

Azure China Enterprise Agreement Required Permissions:

Enterprise Agreement Read Only

Flexera Required Permissions:

billing_center_viewer Read Only

Azure Compute Instances Time Powered Off Report 0.2.1

Azure Resource Manager Required Permissions:

Microsoft.Compute/virtualMachines/read Read Only

Azure Resource Manager Optional Permissions:

Microsoft.Compute/virtualMachines/delete Write

Microsoft.Compute/virtualMachines/powerOff/action Write

Microsoft.Compute/virtualMachines/write Write

Flexera Required Permissions:

billing_center_viewer Read Only

Azure Credential 0.1.1**Azure Resource Manager Required Permissions:**

Microsoft.Resources/subscriptions/read Read Only

Flexera Required Permissions:

billing_center_viewer Read Only

Azure Data Lake Optimization 0.1.0**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

Azure Databricks Rightsize Compute Instances 0.3.0**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

Azure Disallowed Regions 4.1.2**Azure Resource Manager Required Permissions:**

Microsoft.Compute/virtualMachines/read Read Only

Azure Resource Manager Optional Permissions:

Microsoft.Compute/virtualMachines/write Write

Flexera Required Permissions:

billing_center_viewer Read Only

Azure Expiring Certificates 4.0.2

Azure Resource Manager Required Permissions:

Microsoft.Web/certificates/read Read Only

Azure Resource Manager Optional Permissions:

Microsoft.Web/certificates/delete Write

Flexera Required Permissions:

billing_center_viewer Read Only

Azure Expiring Reserved Instances 3.0.1

Flexera Required Permissions:

billing_center_viewer Read Only

Azure Expiring Savings Plans 0.1.2

Azure Resource Manager Required Permissions:

Microsoft.Billing/billingAccounts/read Read Only

Flexera Required Permissions:

billing_center_viewer Read Only

Azure Guest Users 3.0.2

Microsoft Graph Required Permissions:

Directory.Read.All Read Only

User.Read.All Read Only

Flexera Required Permissions:

billing_center_viewer Read Only

Azure Hybrid Use Benefit for Linux Server 5.1.3

Azure Resource Manager Required Permissions:

Microsoft.Compute/virtualMachines/read Read Only

Azure Resource Manager Optional Permissions:

Microsoft.Compute/virtualMachines/write Write

Flexera Required Permissions:

billing_center_viewer Read Only

Azure Hybrid Use Benefit for SQL 4.2.1**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

Azure Hybrid Use Benefit for Windows Server 5.2.3**Azure Resource Manager Required Permissions:**

Microsoft.Compute/virtualMachines/read Read Only

Azure Resource Manager Optional Permissions:

Microsoft.Compute/virtualMachines/write Write

Flexera Required Permissions:

billing_center_viewer Read Only

Azure Idle Compute Instances 5.5.4**Azure Resource Manager Required Permissions:**

Microsoft.Compute/virtualMachines/read Read Only

Microsoft.Insights/metrics/read Read Only

Azure Resource Manager Optional Permissions:

Microsoft.Compute/virtualMachines/write Write

Flexera Required Permissions:

billing_center_viewer Read Only

Azure Instances not running FlexNet Inventory Agent 4.2.1

Azure Resource Manager Required Permissions:

Microsoft.Compute/virtualMachines/read Read Only

Azure Long Running Instances 6.1.2

Azure Resource Manager Required Permissions:

Microsoft.Compute/virtualMachines/read Read Only

Azure Resource Manager Optional Permissions:

Microsoft.Compute/virtualMachines/write Write

Flexera Required Permissions:

billing_center_viewer Read Only

Azure Long Stopped Compute Instances 6.0.1

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

Azure Missing Subscriptions 0.1.2

Azure Resource Manager Required Permissions:

Microsoft.Resources/subscriptions/read Read Only

Flexera Required Permissions:

billing_center_viewer Read Only

Azure MySQL Flexible Servers Without Secure TLS 3.0.1

Azure Resource Manager Required Permissions:

Microsoft.DBforMySQL/flexibleServers/configurations/read Read Only

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

Flexera Required Permissions:

billing_center_viewer Read Only

Azure MySQL Servers Without Enforced SSL 3.0.1

Azure Resource Manager Required Permissions:

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

Flexera Required Permissions:

billing_center_viewer Read Only

Azure Network Security Groups With Inbound RDP Open 3.0.1

Azure Resource Manager Required Permissions:

Microsoft.Network/networkSecurityGroups/read Read Only

Flexera Required Permissions:

billing_center_viewer Read Only

Azure Network Security Groups With Inbound SSH Open 3.0.1

Azure Resource Manager Required Permissions:

Microsoft.Network/networkSecurityGroups/read Read Only

Flexera Required Permissions:

billing_center_viewer Read Only

Azure New Marketplace Products 0.5.0

Flexera Required Permissions:

billing_center_viewer Read Only

Azure Old Snapshots 7.2.2

Azure Resource Manager Required Permissions:

Microsoft.Compute/snapshots/read Read Only

Azure Resource Manager Optional Permissions:

Microsoft.Compute/snapshots/delete Write

Flexera Required Permissions:

billing_center_viewer Read Only

Azure Overutilized Compute Instances 0.1.0

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

Azure Policy Audit 3.0.2

Azure Resource Manager Required Permissions:

Microsoft.Authorization/policyAssignments/read Read Only

Microsoft.Authorization/policyDefinitions/read Read Only

Flexera Required Permissions:

billing_center_viewer Read Only

Azure PostgreSQL Servers With Bad Log Settings 3.0.1

Azure Resource Manager Required Permissions:

Microsoft.DBForPostgreSql/servers/read Read Only

Microsoft.Resources/subscriptions/read Read Only

Flexera Required Permissions:

billing_center_viewer Read Only

Azure PostgreSQL Servers With Insufficient Log Retention 3.0.1

Azure Resource Manager Required Permissions:

Microsoft.DBForPostgreSql/servers/read Read Only

Microsoft.Resources/subscriptions/read Read Only

Flexera Required Permissions:

billing_center_viewer Read Only

Azure PostgreSQL Servers Without Connection Throttling 3.0.1**Azure Resource Manager Required Permissions:**

Microsoft.DBForPostgreSQL/servers/read Read Only

Microsoft.Resources/subscriptions/read Read Only

Flexera Required Permissions:

billing_center_viewer Read Only

Azure PostgreSQL Servers Without Infrastructure Encryption 3.0.1**Azure Resource Manager Required Permissions:**

Microsoft.DBForPostgreSQL/servers/read Read Only

Microsoft.Resources/subscriptions/read Read Only

Flexera Required Permissions:

billing_center_viewer Read Only

Azure Publicly-Accessible Blob Containers 3.0.2**Azure Resource Manager Required Permissions:**

Microsoft.Storage/storageAccounts/read Read Only

Azure Storage Required Permissions:

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

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

Flexera Required Permissions:

billing_center_viewer Read Only

Azure Publicly-Accessible SQL Managed Instances 3.0.1**Azure Resource Manager Required Permissions:**

Microsoft.Resources/subscriptions/read Read Only

Microsoft.Sql/managedInstances/read Read Only

Azure Resource Manager Optional Permissions:

Microsoft.Sql/managedInstances/delete Write

Microsoft.Sql/managedInstances/update Write

Flexera Required Permissions:

billing_center_viewer [Read Only](#)

Azure Queue Storage Accounts Without Logging Enabled 3.0.1**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](#)

Azure Regulatory Compliance 3.0.1**Azure Resource Manager Required Permissions:**

Microsoft.Security/regulatoryComplianceStandards/read [Read Only](#)

Flexera Required Permissions:

billing_center_viewer [Read Only](#)

Azure Reserved Instances Recommendations 4.2.0**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](#)

Azure Reserved Instances Utilization 3.1.3**Azure Resource Manager Required Permissions:**

Microsoft.Billing/billingAccounts/read [Read Only](#)

Microsoft.Consumption/reservationSummaries/read [Read Only](#)

Microsoft.Consumption/reservationTransactions/read [Read Only](#)

Azure Reserved Instances Utilization MCA 1.0.2

Azure Resource Manager Required Permissions:

Microsoft.Capacity/reservations/read Read Only

Azure Rightsize Compute Instances 6.1.3**Azure Resource Manager Required Permissions:**

Microsoft.Compute/locations/vmSizes/read Read Only

Microsoft.Compute/skus/read Read Only

Microsoft.Compute/virtualMachines/read Read Only

Microsoft.Insights/metrics/read Read Only

Azure Resource Manager Optional Permissions:

Microsoft.Compute/virtualMachines/delete Write

Microsoft.Compute/virtualMachines/powerOff/action Write

Microsoft.Compute/virtualMachines/start/action Write

Microsoft.Compute/virtualMachines/write Write

Flexera Required Permissions:

billing_center_viewer Read Only

Azure Rightsize Managed Disks 2.5.1**Azure Resource Manager Required Permissions:**

Microsoft.Compute/disks/read Read Only

Microsoft.Compute/virtualMachines/read Read Only

Microsoft.Insights/metrics/read Read Only

Flexera Required Permissions:

billing_center_viewer Read Only

Azure Rightsize MySQL Flexible Servers 0.2.2**Azure Resource Manager Required Permissions:**

Microsoft.DBforMySQL/flexibleServers/read Read Only

Microsoft.Insights/metrics/read Read Only

Azure Resource Manager Optional Permissions:

Microsoft.DBforMySQL/flexibleServers/delete Write

Microsoft.DBforMySQL/flexibleServers/update Write

Flexera Required Permissions:

billing_center_viewer Read Only

Azure Rightsize MySQL Single Servers 0.2.2

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

Azure Rightsize NetApp Resources 2.0.5

Azure Resource Manager Required Permissions:

Microsoft.Insights/metrics/read Read Only

Microsoft.NetApp/netAppAccounts/capacityPools/read Read Only

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

Azure Resource Manager Optional Permissions:

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

Microsoft.NetApp/netAppAccounts/capacityPools/write Write

Flexera Required Permissions:

billing_center_viewer Read Only

Azure Rightsize SQL Database Storage 0.1.3

Azure Resource Manager Required Permissions:

Microsoft.Insights/metrics/read Read Only

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

Microsoft.Sql/servers/databases/read Read Only

Microsoft.Sql/servers/read Read Only

Flexera Required Permissions:

billing_center_viewer Read Only

Azure Rightsize SQL Databases 6.0.0

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

Azure Rightsize SQL Managed Instance Storage 0.2.3

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

Azure Rightsize SQL Managed Instances 0.3.2

Azure Resource Manager Required Permissions:

Microsoft.Insights/metrics/read Read Only

Microsoft.Sql/managedInstances/metrics/read Read Only

Microsoft.Sql/managedInstances/read Read Only

Azure Resource Manager Optional Permissions:

Microsoft.Sql/managedInstances/delete Write

Microsoft.Sql/managedInstances/update Write

Flexera Required Permissions:

billing_center_viewer Read Only

Azure Rightsize Synapse SQL Pools 0.1.2

Azure Resource Manager Required Permissions:

Microsoft.Insights/metrics/read Read Only

Microsoft.Synapse/sqlPools/delete Read Only

Microsoft.Synapse/sqlPools/pause/action Read Only

Microsoft.Synapse/sqlPools/read Read Only

Microsoft.Synapse/sqlPools/resume/action Read Only

Microsoft.Synapse/sqlPools/write [Read Only](#)
Microsoft.Synapse/workspaces/read [Read Only](#)

Flexera Required Permissions:

billing_center_viewer [Read Only](#)

Azure Rule-Based Dimension From Resource Group Tags 2.0.0

Azure Resource Manager Required Permissions:

Microsoft.Resources/subscriptions/providers/read [Read Only](#)
Microsoft.Resources/subscriptions/resources/read [Read Only](#)
Microsoft.Resources/tags/read [Read Only](#)

Flexera Required Permissions:

billing_center_viewer [Read Only](#)
observer [Read Only](#)
rule_based_dimensions_manager [Read Only](#)

Azure Rule-Based Dimension From Subscription Tags 2.0.0

Azure Resource Manager Required Permissions:

Microsoft.Resources/subscriptions/providers/read [Read Only](#)
Microsoft.Resources/subscriptions/resources/read [Read Only](#)
Microsoft.Resources/tags/read [Read Only](#)

Flexera Required Permissions:

billing_center_viewer [Read Only](#)
observer [Read Only](#)
rule_based_dimensions_manager [Read Only](#)

Azure SQL Databases Without Encryption 3.0.1

Azure Resource Manager Required Permissions:

Microsoft.Resources/subscriptions/read [Read Only](#)
Microsoft.Sql/servers/databases/read [Read Only](#)
Microsoft.Sql/servers/databases/transparentDataEncryption/read [Read Only](#)
Microsoft.Sql/servers/read [Read Only](#)

Flexera Required Permissions:

billing_center_viewer [Read Only](#)

Azure SQL Servers Vulnerability Assessment Does Not Notify Admins 3.0.1

Azure Resource Manager Required Permissions:

Microsoft.Resources/subscriptions/read Read Only

Microsoft.Sql/servers/read Read Only

Microsoft.Sql/servers/vulnerabilityAssessments/read Read Only

Flexera Required Permissions:

billing_center_viewer Read Only

Azure SQL Servers Vulnerability Assessment Without Email Notifications 3.0.1**Azure Resource Manager Required Permissions:**

Microsoft.Resources/subscriptions/read Read Only

Microsoft.Sql/servers/read Read Only

Microsoft.Sql/servers/vulnerabilityAssessments/read Read Only

Flexera Required Permissions:

billing_center_viewer Read Only

Azure SQL Servers Vulnerability Assessment Without Periodic Scans 3.0.1**Azure Resource Manager Required Permissions:**

Microsoft.Resources/subscriptions/read Read Only

Microsoft.Sql/servers/read Read Only

Microsoft.Sql/servers/vulnerabilityAssessments/read Read Only

Flexera Required Permissions:

billing_center_viewer Read Only

Azure SQL Servers With Insufficient Auditing Retention 3.0.1**Azure Resource Manager Required Permissions:**

Microsoft.Resources/subscriptions/read Read Only

Microsoft.Sql/servers/read Read Only

Flexera Required Permissions:

billing_center_viewer Read Only

Azure SQL Servers Without Active Directory Admin 3.0.1**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

Azure SQL Servers Without Advanced Threat Protection (ATP) 3.0.1**Azure Resource Manager Required Permissions:**

Microsoft.Resources/subscriptions/read Read Only

Microsoft.Sql/servers/read Read Only

Microsoft.Sql/servers/securityAlertPolicies/read Read Only

Flexera Required Permissions:

billing_center_viewer Read Only

Azure SQL Servers Without Auditing Enabled 3.0.1**Azure Resource Manager Required Permissions:**

Microsoft.Resources/subscriptions/read Read Only

Microsoft.Sql/servers/read Read Only

Flexera Required Permissions:

billing_center_viewer Read Only

Azure SQL Servers Without Elastic Pools 3.0.1**Azure Resource Manager Required Permissions:**

Microsoft.Sql/servers/read Read Only

Flexera Required Permissions:

billing_center_viewer Read Only

Azure SQL Servers Without Vulnerability Assessment (VA) Enabled 3.0.1**Azure Resource Manager Required Permissions:**

Microsoft.Resources/subscriptions/read Read Only

Microsoft.Sql/servers/read Read Only

Microsoft.Sql/servers/vulnerabilityAssessments/read Read Only

Flexera Required Permissions:

billing_center_viewer Read Only

Azure Savings Plan Recommendations 3.1.2

Azure Resource Manager Required Permissions:

Microsoft.CostManagement/benefitRecommendations/read Read Only

Flexera Required Permissions:

billing_center_viewer Read Only

Azure Savings Plan Utilization 0.1.2**Azure Resource Manager Required Permissions:**

Microsoft.Billing/billingAccounts/read Read Only

Flexera Required Permissions:

billing_center_viewer Read Only

Azure Savings Realized from Reservations 3.9.3**Flexera Required Permissions:**

billing_center_viewer Read Only

Azure Schedule Instance 7.0.1**Azure Resource Manager Required Permissions:**

Microsoft.Compute/virtualMachines/deallocate/action Write

Microsoft.Compute/virtualMachines/delete Write

Microsoft.Compute/virtualMachines/read Read Only

Microsoft.Compute/virtualMachines/start/action Write

Microsoft.Compute/virtualMachines/write Write

Flexera Required Permissions:

billing_center_viewer Read Only

Azure Storage Accounts Allowing Default Network Access 3.0.1**Azure Resource Manager Required Permissions:**

Microsoft.Storage/storageAccounts/read Read Only

Flexera Required Permissions:

billing_center_viewer Read Only

Azure Storage Accounts Without Secure TLS 3.0.1**Azure Resource Manager Required Permissions:**

Microsoft.Storage/storageAccounts/read Read Only

Flexera Required Permissions:

billing_center_viewer Read Only

Azure Storage Accounts Without Secure Transfer 3.0.1

Azure Resource Manager Required Permissions:

Microsoft.Storage/storageAccounts/read Read Only

Flexera Required Permissions:

billing_center_viewer Read Only

Azure Storage Accounts Without Trusted Microsoft Services Access 3.0.1

Azure Resource Manager Required Permissions:

Microsoft.Storage/storageAccounts/read Read Only

Flexera Required Permissions:

billing_center_viewer Read Only

Azure Storage Accounts without Lifecycle Management Policies 4.0.2

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 3.0.1

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 3.0.2

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 3.0.1

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 3.0.1

Azure Resource Manager Required Permissions:

Microsoft.Resources/subscriptions/read Read Only

Microsoft.Security/securityContacts/read Read Only

Flexera Required Permissions:

billing_center_viewer Read Only

Azure Superseded Compute Instances 2.1.3

Azure Resource Manager Required Permissions:

Microsoft.Compute/virtualMachines/read Read Only

Azure Resource Manager Optional Permissions:

Microsoft.Compute/virtualMachines/write Write

Flexera Required Permissions:

billing_center_viewer Read Only

Azure Table Storage Accounts Without Logging Enabled 3.0.1

Azure Resource Manager Required Permissions:

Microsoft.Storage/storageAccounts/read Read Only

Azure Storage Required Permissions:

Storage Table Data Reader Read Only

Flexera Required Permissions:

billing_center_viewer Read Only

Azure Tag Cardinality Report 3.2.2

Azure Resource Manager Required Permissions:

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

Flexera Required Permissions:

billing_center_viewer Read Only

Azure Untagged Resources 3.2.2

Azure Resource Manager Required Permissions:

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

Azure Resource Manager Optional Permissions:

Microsoft.Resources/tags/write Write

Flexera Required Permissions:

billing_center_viewer Read Only

Azure Untagged Virtual Machines 1.1.2

Azure Resource Manager Required Permissions:

Microsoft.Compute/virtualMachines/read Read Only

Azure Resource Manager Optional Permissions:

Microsoft.Compute/virtualMachines/write Write

Flexera Required Permissions:

billing_center_viewer Read Only

Azure Unused App Service Plans 0.1.2

Azure Resource Manager Required Permissions:

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

Azure Resource Manager Optional Permissions:

Microsoft.Web/serverfarms/delete Write

Flexera Required Permissions:

billing_center_viewer Read Only

Azure Unused Firewalls 0.2.3**Azure Resource Manager Required Permissions:**

Microsoft.Insights/metrics/read Read Only

Microsoft.Network/azureFirewalls/read Read Only

Azure Resource Manager Optional Permissions:

Microsoft.Network/azureFirewalls/delete Write

Flexera Required Permissions:

billing_center_viewer Read Only

Azure Unused IP Addresses 7.3.2**Azure Resource Manager Required Permissions:**

Microsoft.Insights/eventtypes/values/read Read Only

Microsoft.Network/publicIPAddresses/read Read Only

Azure Resource Manager Optional Permissions:

Microsoft.Network/publicIPAddresses/delete Write

Flexera Required Permissions:

billing_center_viewer Read Only

Azure Unused Load Balancers 0.1.3**Azure Resource Manager Required Permissions:**

Microsoft.Insights/metrics/read Read Only

Microsoft.Network/loadBalancers/read Read Only

Azure Resource Manager Optional Permissions:

Microsoft.Network/loadBalancers/delete Write

Flexera Required Permissions:

billing_center_viewer Read Only

Azure Unused SQL Databases 5.4.4**Azure Resource Manager Required Permissions:**

Microsoft.Insights/metrics/read Read Only

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

Azure Resource Manager Optional Permissions:

Microsoft.Sql/servers/databases/delete Write

Flexera Required Permissions:

billing_center_viewer Read Only

Azure Unused Virtual Network Gateways 0.1.1

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

Azure Unused Volumes 8.2.3

Azure Resource Manager Required Permissions:

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

Azure Resource Manager Optional Permissions:

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

Flexera Required Permissions:

billing_center_viewer Read Only

Azure Usage Report - Amount of Instance Memory Used 2.1.6

Flexera Required Permissions:

billing_center_viewer Read Only

Azure Usage Report - Instance Time Used 1.0.4

Flexera Required Permissions:billing_center_viewer [Read Only](#)**Azure Usage Report - Number of Instance Hours Used** 2.1.5**Flexera Required Permissions:**billing_center_viewer [Read Only](#)**Azure Usage Report - Number of Instance vCPUs Used** 2.1.6**Flexera Required Permissions:**billing_center_viewer [Read Only](#)**Azure VMs Not Using Managed Disks** 4.0.1**Azure Resource Manager Required Permissions:**Microsoft.Compute/virtualMachines/read [Read Only](#)**Flexera Required Permissions:**billing_center_viewer [Read Only](#)**Azure Web Apps With Unoptimized Scaling** 0.2.1**Azure Resource Manager Required Permissions:**Microsoft.Insights/autoscalesettings/read [Read Only](#)Microsoft.Web/sites/read [Read Only](#)**Flexera Required Permissions:**billing_center_viewer [Read Only](#)**Azure Web Apps Without Secure TLS** 3.0.1**Azure Resource Manager Required Permissions:**Microsoft.Web/sites/read [Read Only](#)**Flexera Required Permissions:**billing_center_viewer [Read Only](#)**Common Bill Ingestion from Azure Blob Storage** 0.1.2**Azure Storage Required Permissions:**

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