



# Policy Catalog Master Permissions List

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

- Required permissions may change as policy templates in the catalog are updated. An up-to-date version of this PDF file is [available in the Flexera Policy Template Github Repository](#).
  - *Required* permissions are required for the policy template in question to work correctly; *optional* permissions enable additional functionality.
  - Permissions with a green *Read Only* label are read-only, while those with a red *Write* label can potentially make changes to your cloud environment.
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## AKS Node Pools Without Autoscaling 3.1.1

### Azure Resource Manager Required Permissions:

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

Microsoft.ContainerService/managedClusters/read *Read Only*

### Flexera Required Permissions:

billing\_center\_viewer *Read Only*

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## AKS Node Pools Without Zero Autoscaling 3.2.1

### 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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## AWS Account Credentials 0.1.9

### AWS Required Permissions:

sts:GetCallerIdentity *Read Only*

### Flexera Required Permissions:

billing\_center\_viewer *Read Only*

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## AWS Accounts Missing Service Control Policies 3.1.1

### AWS Required Permissions:

organizations:ListAccounts *Read Only*  
organizations:ListPolicies *Read Only*  
organizations:ListPoliciesForTarget *Read Only*

### Flexera Required Permissions:

billing\_center\_viewer *Read Only*

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## AWS Burstable EC2 Instances 4.5.2

### AWS Required Permissions:

cloudwatch:GetMetricData *Read Only*  
cloudwatch:ListMetrics *Read Only*  
ec2:DescribeInstances *Read Only*  
ec2:DescribeRegions *Read Only*  
ec2:DescribeTags *Read Only*  
sts:GetCallerIdentity *Read Only*

### AWS Optional Permissions:

ec2:DescribeInstanceStatus *Write*  
ec2:ModifyInstanceAttribute *Write*  
ec2:StartInstances *Write*  
ec2:StopInstances *Write*

### Flexera Required Permissions:

billing\_center\_viewer *Read Only*

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## AWS Cheaper Regions 1.0.5

### Flexera Required Permissions:

billing\_center\_viewer *Read Only*

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## AWS CloudTrail Not Enabled In All Regions 3.0.7

### AWS Required Permissions:

cloudtrail:DescribeTrails *Read Only*  
cloudtrail:GetEventSelectors *Read Only*  
cloudtrail:GetTrailStatus *Read Only*  
sts:GetCallerIdentity *Read Only*

### Flexera Required Permissions:

billing\_center\_viewer *Read Only*

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## AWS CloudTrail S3 Buckets Without Access Logging 3.0.7

### AWS Required Permissions:

cloudtrail:DescribeTrails *Read Only*  
s3:GetBucketLocation *Read Only*  
s3:GetBucketLogging *Read Only*  
sts:GetCallerIdentity *Read Only*

### Flexera Required Permissions:

billing\_center\_viewer *Read Only*

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## AWS CloudTrails Not Integrated With CloudWatch 3.0.7

### AWS Required Permissions:

cloudtrail:DescribeTrails *Read Only*  
cloudtrail:GetTrailStatus *Read Only*  
sts:GetCallerIdentity *Read Only*

### Flexera Required Permissions:

billing\_center\_viewer *Read Only*

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## AWS CloudTrails With Read Logging Enabled 0.2.2

### AWS Required Permissions:

cloudtrail:DescribeTrails *Read Only*  
cloudtrail:GetEventSelectors *Read Only*  
sts:GetCallerIdentity *Read Only*

### AWS Optional Permissions:

cloudtrail:PutEventSelectors *Write*

### Flexera Required Permissions:

billing\_center\_viewer *Read Only*

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## AWS CloudTrails Without Encrypted Logs 3.0.7

### AWS Required Permissions:

cloudtrail:DescribeTrails *Read Only*  
sts:GetCallerIdentity *Read Only*

### Flexera Required Permissions:

billing\_center\_viewer *Read Only*

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## AWS CloudTrails Without Log File Validation Enabled 3.0.8

### AWS Required Permissions:

cloudtrail:DescribeTrails *Read Only*  
sts:GetCallerIdentity *Read Only*

**Flexera Required Permissions:**

billing\_center\_viewer *Read Only*

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## **AWS CloudTrails Without Object-level Events Logging Enabled**

3.0.7

**AWS Required Permissions:**

cloudtrail:DescribeTrails *Read Only*  
cloudtrail:GetEventSelectors *Read Only*  
sts:GetCallerIdentity *Read Only*

**Flexera Required Permissions:**

billing\_center\_viewer *Read Only*

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## **AWS Cost Report - EC2 Instance Cost Per Hour** 0.2.4

**Flexera Required Permissions:**

billing\_center\_viewer *Read Only*

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## **AWS Customer Managed Keys (CMKs) Without Rotation Enabled**

3.0.7

**AWS Required Permissions:**

ec2:DescribeRegions *Read Only*  
kms:GetKeyRotationStatus *Read Only*  
kms:ListKeys *Read Only*  
sts:GetCallerIdentity *Read Only*

**Flexera Required Permissions:**

billing\_center\_viewer *Read Only*

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## **AWS Disallowed Regions** 5.0.8

**AWS Required Permissions:**

ec2:DescribeInstances *Read Only*  
ec2:DescribeRegions *Read Only*  
sts:GetCallerIdentity *Read Only*

**AWS Optional Permissions:**

ec2:StopInstances *Write*  
ec2:TerminateInstances *Write*

**Flexera Required Permissions:**

billing\_center\_viewer *Read Only*

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## **AWS EC2 Compute Optimizer Recommendations** 0.4.1

### **AWS Required Permissions:**

compute-optimizer:GetEC2InstanceRecommendations *Read Only*  
ec2:DescribeInstances *Read Only*  
ec2:DescribeRegions *Read Only*  
sts:GetCallerIdentity *Read Only*

### **AWS Optional Permissions:**

ec2:ModifyInstanceAttribute *Write*  
ec2:StartInstances *Write*  
ec2:StopInstances *Write*

### **Flexera Required Permissions:**

billing\_center\_viewer *Read Only*

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## **AWS EC2 Instances Time Stopped Report** 0.3.2

### **AWS Required Permissions:**

ec2:DescribeInstances *Read Only*  
ec2:DescribeRegions *Read Only*  
sts:GetCallerIdentity *Read Only*

### **AWS Optional Permissions:**

ec2:DescribeInstanceStatus *Write*  
ec2:StopInstances *Write*  
ec2:TerminateInstances *Write*

### **Flexera Required Permissions:**

billing\_center\_viewer *Read Only*

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## **AWS EC2 Instances not running FlexNet Inventory Agent** 4.4.1

### **AWS Required Permissions:**

ec2:DescribeInstances *Read Only*  
ec2:DescribeRegions *Read Only*

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## **AWS EKS Clusters Without Spot Instances** 0.2.3

### **AWS Required Permissions:**

ec2:DescribeRegions *Read Only*  
eks:DescribeCluster *Read Only*  
eks:DescribeNodegroup *Read Only*

eks:ListClusters *Read Only*  
eks:ListNodegroups *Read Only*  
sts:GetCallerIdentity *Read Only*

**Flexera Required Permissions:**

billing\_center\_viewer *Read Only*

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## **AWS Elastic Load Balancers With Unencrypted Listeners 4.0.8**

**AWS Required Permissions:**

ec2:DescribeRegions *Read Only*  
elasticloadbalancing:DescribeListeners *Read Only*  
elasticloadbalancing:DescribeLoadBalancers *Read Only*  
elasticloadbalancing:DescribeTags *Read Only*  
sts:GetCallerIdentity *Read Only*

**Flexera Required Permissions:**

billing\_center\_viewer *Read Only*

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## **AWS Expiring Reserved Instances 3.1.1**

**Flexera Required Permissions:**

billing\_center\_viewer *Read Only*

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## **AWS Expiring Savings Plans 3.1.1**

**AWS Required Permissions:**

savingsplans:DescribeSavingsPlans *Read Only*

**Flexera Required Permissions:**

billing\_center\_viewer *Read Only*

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## **AWS IAM Account Missing Support Role 3.0.7**

**AWS Required Permissions:**

iam:ListEntitiesForPolicy *Read Only*  
iam:ListPolicies *Read Only*  
sts:GetCallerIdentity *Read Only*

**Flexera Required Permissions:**

billing\_center\_viewer *Read Only*

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## **AWS IAM Attached Admin Policies 3.0.7**

**AWS Required Permissions:**

iam:GetPolicyVersion *Read Only*

iam:ListPolicies *Read Only*

sts:GetCallerIdentity *Read Only*

**Flexera Required Permissions:**

billing\_center\_viewer *Read Only*

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**AWS IAM Expired SSL/TLS Certificates 3.0.7****AWS Required Permissions:**

iam:ListServerCertificates *Read Only*

sts:GetCallerIdentity *Read Only*

**Flexera Required Permissions:**

billing\_center\_viewer *Read Only*

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**AWS IAM Insufficient Required Password Length 3.0.7****AWS Required Permissions:**

iam:GetAccountPasswordPolicy *Read Only*

sts:GetCallerIdentity *Read Only*

**Flexera Required Permissions:**

billing\_center\_viewer *Read Only*

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**AWS IAM Password Policy Not Restricting Password Reuse 3.0.7****AWS Required Permissions:**

iam:GetAccountPasswordPolicy *Read Only*

sts:GetCallerIdentity *Read Only*

**Flexera Required Permissions:**

billing\_center\_viewer *Read Only*

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**AWS IAM Role Audit 3.0.11****AWS Required Permissions:**

iam:ListRoleTags *Read Only*

iam:ListRoles *Read Only*

sts:GetCallerIdentity *Read Only*

**Flexera Required Permissions:**

billing\_center\_viewer *Read Only*

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## AWS IAM Root Account Access Keys 3.0.7

### AWS Required Permissions:

iam:GetAccountSummary *Read Only*

sts:GetCallerIdentity *Read Only*

### Flexera Required Permissions:

billing\_center\_viewer *Read Only*

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## AWS IAM Root User Account Without Hardware MFA 3.0.7

### AWS Required Permissions:

iam:GetAccountSummary *Read Only*

iam:ListVirtualMFADevices *Read Only*

sts:GetCallerIdentity *Read Only*

### Flexera Required Permissions:

billing\_center\_viewer *Read Only*

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## AWS IAM Root User Account Without MFA 3.0.7

### AWS Required Permissions:

iam:GetAccountSummary *Read Only*

iam:ListVirtualMFADevices *Read Only*

sts:GetCallerIdentity *Read Only*

### Flexera Required Permissions:

billing\_center\_viewer *Read Only*

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## AWS IAM Root User Doing Everyday Tasks 3.0.7

### AWS Required Permissions:

iam:GenerateCredentialReport *Read Only*

iam:GetCredentialReport *Read Only*

sts:GetCallerIdentity *Read Only*

### Flexera Required Permissions:

billing\_center\_viewer *Read Only*

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## AWS IAM User Accounts Without MFA 3.0.7

### AWS Required Permissions:

iam:GenerateCredentialReport *Read Only*

iam:GetCredentialReport *Read Only*

sts:GetCallerIdentity *Read Only*



**Flexera Required Permissions:**

billing\_center\_viewer *Read Only*

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**AWS IAM Users With Directly-Attached Policies 3.0.7****AWS Required Permissions:**

iam:ListAttachedUserPolicies *Read Only*

iam:ListUserPolicies *Read Only*

iam:ListUsers *Read Only*

sts:GetCallerIdentity *Read Only*

**Flexera Required Permissions:**

billing\_center\_viewer *Read Only*

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**AWS IAM Users With Multiple Active Access Keys 3.0.7****AWS Required Permissions:**

iam:ListAccessKeys *Read Only*

iam:ListUsers *Read Only*

sts:GetCallerIdentity *Read Only*

**Flexera Required Permissions:**

billing\_center\_viewer *Read Only*

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**AWS IAM Users With Old Access Keys 3.0.7****AWS Required Permissions:**

iam:GenerateCredentialReport *Read Only*

iam:GetCredentialReport *Read Only*

sts:GetCallerIdentity *Read Only*

**Flexera Required Permissions:**

billing\_center\_viewer *Read Only*

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**AWS Idle NAT Gateways 0.3.4****AWS Required Permissions:**

ec2:DescribeNatGateways *Read Only*

ec2:DescribeRegions *Read Only*

sts:GetCallerIdentity *Read Only*

**AWS Optional Permissions:**

ec2:DeleteNatGateway *Write*

**Flexera Required Permissions:**

billing\_center\_viewer *Read Only*

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## AWS Internet-Accessible Elastic Load Balancers 4.0.8

### AWS Required Permissions:

ec2:DescribeRegions *Read Only*  
elasticloadbalancing:DescribeListeners *Read Only*  
elasticloadbalancing:DescribeLoadBalancers *Read Only*  
elasticloadbalancing:DescribeTags *Read Only*  
sts:GetCallerIdentity *Read Only*

### AWS Optional Permissions:

elasticloadbalancing>DeleteLoadBalancer *Write*

### Flexera Required Permissions:

billing\_center\_viewer *Read Only*

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## AWS Lambda Functions With High Error Rate 5.1.3

### AWS Required Permissions:

cloudwatch:GetMetricData *Read Only*  
cloudwatch:ListMetrics *Read Only*  
ec2:DescribeRegions *Read Only*  
lambda:ListFunctions *Read Only*  
lambda:ListTags *Read Only*  
sts:GetCallerIdentity *Read Only*

### Flexera Required Permissions:

billing\_center\_viewer *Read Only*

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## AWS Lambda Functions Without Provisioned Concurrency 0.2.3

### AWS Required Permissions:

ec2:DescribeRegions *Read Only*  
lambda:ListFunctions *Read Only*  
lambda:ListProvisionedConcurrencyConfigs *Read Only*  
lambda:ListTags *Read Only*  
lambda:ListVersionsByFunction *Read Only*  
sts:GetCallerIdentity *Read Only*

### Flexera Required Permissions:

billing\_center\_viewer *Read Only*

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## AWS Long Running Instances 5.2.3

### AWS Required Permissions:

ec2:DescribeInstances *Read Only*

ec2:DescribeRegions *Read Only*  
sts:GetCallerIdentity *Read Only*

**AWS Optional Permissions:**

ec2:DescribeInstanceStatus *Write*  
ec2:StopInstances *Write*  
ec2:TerminateInstances *Write*

**Flexera Required Permissions:**

billing\_center\_viewer *Read Only*

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## **AWS Long Stopped EC2 Instances** 6.1.2

**AWS Required Permissions:**

cloudwatch:GetMetricData *Read Only*  
cloudwatch:GetMetricStatistics *Read Only*  
cloudwatch:ListMetrics *Read Only*  
ec2:DescribeInstances *Read Only*  
ec2:DescribeRegions *Read Only*  
sts:GetCallerIdentity *Read Only*

**AWS Optional Permissions:**

ec2:DescribeInstanceStatus *Write*  
ec2:TerminateInstances *Write*

**Flexera Required Permissions:**

billing\_center\_viewer *Read Only*

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## **AWS Missing Regions** 0.2.7

**AWS Required Permissions:**

ec2:DescribeInstances *Read Only*  
ec2:DescribeRegions *Read Only*  
sts:GetCallerIdentity *Read Only*

**Flexera Required Permissions:**

billing\_center\_viewer *Read Only*

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## **AWS New Marketplace Products** 0.4.1

**Flexera Required Permissions:**

billing\_center\_viewer *Read Only*

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## **AWS Object Storage Optimization** 4.0.10

**AWS Required Permissions:**

s3:GetBucketLocation *Read Only*  
s3:GetObject *Read Only*  
s3:GetObjectTagging *Read Only*  
s3:ListAllMyBuckets *Read Only*  
s3:ListBucket *Read Only*  
sts:GetCallerIdentity *Read Only*

**AWS Optional Permissions:**

s3:DeleteObject *Write*  
s3:PutObject *Write*

**Flexera Required Permissions:**

billing\_center\_viewer *Read Only*

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**AWS Old Snapshots 8.6.4**

**AWS Required Permissions:**

cloudtrail:LookupEvents *Read Only*  
ec2:DescribeImages *Read Only*  
ec2:DescribeRegions *Read Only*  
ec2:DescribeSnapshots *Read Only*  
rds:DescribeDBClusterSnapshots *Read Only*  
rds:DescribeDBClusters *Read Only*  
rds:DescribeDBInstances *Read Only*  
rds:DescribeDBSnapshots *Read Only*  
sts:GetCallerIdentity *Read Only*

**AWS Optional Permissions:**

ec2:DeleteSnapshot *Write*  
ec2:DeregisterImage *Write*  
rds:DeleteDBClusterSnapshot *Write*  
rds:DeleteDBSnapshot *Write*

**Flexera Required Permissions:**

billing\_center\_viewer *Read Only*

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**AWS Open S3 Buckets 3.1.8**

**AWS Required Permissions:**

s3:GetBucketAcl *Read Only*  
s3:GetBucketLocation *Read Only*  
s3:ListAllMyBuckets *Read Only*  
sts:GetCallerIdentity *Read Only*

**Flexera Required Permissions:**

billing\_center\_viewer *Read Only*

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## AWS Oversized S3 Buckets 4.0.1

### AWS Required Permissions:

cloudwatch:GetMetricData *Read Only*  
cloudwatch:ListMetrics *Read Only*  
s3:GetBucketLocation *Read Only*  
s3:GetBucketTagging *Read Only*  
s3:ListAllMyBuckets *Read Only*  
sts:GetCallerIdentity *Read Only*

### Flexera Required Permissions:

billing\_center\_viewer *Read Only*

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## AWS Overutilized EC2 Instances 0.2.3

### AWS Required Permissions:

cloudwatch:GetMetricData *Read Only*  
cloudwatch:GetMetricStatistics *Read Only*  
cloudwatch:ListMetrics *Read Only*  
ec2:DescribeInstances *Read Only*  
ec2:DescribeRegions *Read Only*  
ec2:DescribeTags *Read Only*  
sts:GetCallerIdentity *Read Only*

### AWS Optional Permissions:

ec2:DescribeInstanceStatus *Write*  
ec2:ModifyInstanceAttribute *Write*  
ec2:StartInstances *Write*  
ec2:StopInstances *Write*

### Flexera Required Permissions:

billing\_center\_viewer *Read Only*

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## AWS Publicly Accessible CloudTrail S3 Buckets 3.0.7

### AWS Required Permissions:

cloudtrail:DescribeTrails *Read Only*  
s3:GetBucketAcl *Read Only*  
s3:GetBucketLocation *Read Only*  
s3:GetBucketPolicy *Read Only*  
sts:GetCallerIdentity *Read Only*

### Flexera Required Permissions:

billing\_center\_viewer *Read Only*

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## AWS Publicly Accessible RDS Instances 5.1.6

**AWS Required Permissions:**

ec2:DescribeRegions *Read Only*  
rds:DescribeDBInstances *Read Only*  
rds:ListTagsForResource *Read Only*  
sts:GetCallerIdentity *Read Only*

**AWS Optional Permissions:**

rds>DeleteDBInstance *Write*  
rds:ModifyDBInstance *Write*

**Flexera Required Permissions:**

billing\_center\_viewer *Read Only*

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**AWS RDS Instances With Unapproved Backup Settings 3.1.2****AWS Required Permissions:**

ec2:DescribeRegions *Read Only*  
rds:DescribeDBInstances *Read Only*  
rds:ListTagsForResource *Read Only*  
sts:GetCallerIdentity *Read Only*

**Flexera Required Permissions:**

billing\_center\_viewer *Read Only*

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**AWS Regions Without Access Analyzer Enabled 4.0.7****AWS Required Permissions:**

access-analyzer:ListAnalyzers *Read Only*  
ec2:DescribeRegions *Read Only*  
sts:GetCallerIdentity *Read Only*

**Flexera Required Permissions:**

billing\_center\_viewer *Read Only*

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**AWS Regions Without Config Fully Enabled 3.0.8****AWS Required Permissions:**

config:DescribeConfigurationRecorderStatus *Read Only*  
ec2:DescribeRegions *Read Only*  
sts:GetCallerIdentity *Read Only*

**Flexera Required Permissions:**

billing\_center\_viewer *Read Only*

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**AWS Regions Without Default EBS Encryption 4.0.7**

**AWS Required Permissions:**

ec2:DescribeRegions *Read Only*  
ec2:GetEbsEncryptionByDefault *Read Only*  
sts:GetCallerIdentity *Read Only*

**Flexera Required Permissions:**

billing\_center\_viewer *Read Only*

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**AWS Reserved Instances Coverage** 3.0.5**AWS Required Permissions:**

ce:GetReservationCoverage *Read Only*

**Flexera Required Permissions:**

billing\_center\_viewer *Read Only*

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**AWS Reserved Instances Recommendations** 3.7.2**AWS Required Permissions:**

ce:GetReservationPurchaseRecommendation *Read Only*

**Flexera Required Permissions:**

billing\_center\_viewer *Read Only*

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**AWS Reserved Instances Utilization** 3.1.1**Flexera Required Permissions:**

billing\_center\_viewer *Read Only*

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**AWS Resources Under Extended Support** 0.3.2**Flexera Required Permissions:**

billing\_center\_viewer *Read Only*

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**AWS Rightsize EBS Volumes** 0.5.4**AWS Required Permissions:**

ec2:DescribeRegions *Read Only*  
ec2:DescribeVolumes *Read Only*  
pricing:GetProducts *Read Only*

**AWS Optional Permissions:**

ec2:ModifyVolume *Write*

**Flexera Required Permissions:**

billing\_center\_viewer *Read Only*

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## **AWS Rightsize EC2 Instances** 5.6.5

### **AWS Required Permissions:**

cloudwatch:GetMetricData *Read Only*  
cloudwatch:GetMetricStatistics *Read Only*  
cloudwatch:ListMetrics *Read Only*  
ec2:DescribeInstances *Read Only*  
ec2:DescribeRegions *Read Only*  
ec2:DescribeTags *Read Only*  
sts:GetCallerIdentity *Read Only*

### **AWS Optional Permissions:**

ec2:DescribeInstanceStatus *Write*  
ec2:ModifyInstanceAttribute *Write*  
ec2:StartInstances *Write*  
ec2:StopInstances *Write*  
ec2:TerminateInstances *Write*

### **Flexera Required Permissions:**

billing\_center\_viewer *Read Only*

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## **AWS Rightsize ElastiCache** 0.5.4

### **AWS Required Permissions:**

cloudwatch:GetMetricData *Read Only*  
ec2:DescribeRegions *Read Only*  
elasticache:DescribeCacheClusters *Read Only*  
elasticache:ListTagsForResource *Read Only*  
sts:GetCallerIdentity *Read Only*

### **AWS Optional Permissions:**

elasticache:ModifyCacheCluster *Write*

### **Flexera Required Permissions:**

billing\_center\_viewer *Read Only*

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## **AWS Rightsize RDS Instances** 5.10.4

### **AWS Required Permissions:**

cloudwatch:GetMetricData *Read Only*  
cloudwatch:GetMetricStatistics *Read Only*  
ec2:DescribeRegions *Read Only*  
rds:DescribeDBInstances *Read Only*  
rds:DescribeOrderableDBInstanceOptions *Read Only*  
rds:ListTagsForResource *Read Only*



sts:GetCallerIdentity *Read Only*

**AWS Optional Permissions:**

rds>DeleteDBInstance *Write*

rds:ModifyDBInstance *Write*

**Flexera Required Permissions:**

billing\_center\_viewer *Read Only*

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**AWS Rightsize Redshift 0.2.3**

**AWS Required Permissions:**

cloudwatch:GetMetricData *Read Only*

ec2:DescribeRegions *Read Only*

redshift:DescribeClusters *Read Only*

sts:GetCallerIdentity *Read Only*

**AWS Optional Permissions:**

redshift:ModifyCluster *Write*

**Flexera Required Permissions:**

billing\_center\_viewer *Read Only*

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**AWS Rule-Based Dimension From Account Tags 3.1.1**

**Flexera Required Permissions:**

billing\_center\_viewer *Read Only*

observer *Read Only*

rule\_based\_dimensions\_manager *Read Only*

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**AWS S3 Buckets Accepting HTTP Requests 3.0.8**

**AWS Required Permissions:**

s3:GetBucketLocation *Read Only*

s3:GetBucketPolicy *Read Only*

s3:GetBucketTagging *Read Only*

s3:ListAllMyBuckets *Read Only*

sts:GetCallerIdentity *Read Only*

**Flexera Required Permissions:**

billing\_center\_viewer *Read Only*

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**AWS S3 Buckets Without Default Encryption Configuration 3.0.7**

**AWS Required Permissions:**

s3:GetBucketLocation *Read Only*

s3:GetBucketTagging *Read Only*  
s3:GetEncryptionConfiguration *Read Only*  
s3:ListAllMyBuckets *Read Only*  
sts:GetCallerIdentity *Read Only*

**AWS Optional Permissions:**

s3:DeleteBucket *Write*  
s3:PutEncryptionConfiguration *Write*

**Flexera Required Permissions:**

billing\_center\_viewer *Read Only*

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## **AWS S3 Buckets Without Intelligent Tiering 4.2.3**

**AWS Required Permissions:**

s3:GetBucketLocation *Read Only*  
s3:GetBucketTagging *Read Only*  
s3:GetIntelligentTieringConfiguration *Read Only*  
s3:ListAllMyBuckets *Read Only*  
sts:GetCallerIdentity *Read Only*

**AWS Optional Permissions:**

s3:PutLifecycleConfiguration *Write*

**Flexera Required Permissions:**

billing\_center\_viewer *Read Only*

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## **AWS S3 Buckets Without Lifecycle Configuration 0.2.2**

**AWS Required Permissions:**

s3:GetBucketLocation *Read Only*  
s3:GetBucketTagging *Read Only*  
s3:GetLifecycleConfiguration *Read Only*  
s3:ListAllMyBuckets *Read Only*  
sts:GetCallerIdentity *Read Only*

**Flexera Required Permissions:**

billing\_center\_viewer *Read Only*

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## **AWS S3 Buckets Without MFA Delete Enabled 3.0.7**

**AWS Required Permissions:**

s3:GetBucketLocation *Read Only*  
s3:GetBucketTagging *Read Only*  
s3:GetBucketVersioning *Read Only*  
s3:ListAllMyBuckets *Read Only*  
sts:GetCallerIdentity *Read Only*

**Flexera Required Permissions:**

billing\_center\_viewer *Read Only*

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**AWS S3 Buckets Without Public Access Blocked 3.0.7****AWS Required Permissions:**

s3:GetBucketLocation *Read Only*  
s3:GetBucketPublicAccessBlock *Read Only*  
s3:GetBucketTagging *Read Only*  
s3:ListAllMyBuckets *Read Only*  
sts:GetCallerIdentity *Read Only*

**Flexera Required Permissions:**

billing\_center\_viewer *Read Only*

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**AWS S3 Buckets Without Server Access Logging 3.0.7****AWS Required Permissions:**

s3:GetBucketLocation *Read Only*  
s3:GetBucketLogging *Read Only*  
s3:GetBucketTagging *Read Only*  
s3:ListAllMyBuckets *Read Only*  
sts:GetCallerIdentity *Read Only*

**AWS Optional Permissions:**

s3:PutBucketLogging *Write*

**Flexera Required Permissions:**

billing\_center\_viewer *Read Only*

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**AWS S3 Incomplete Multi-Part Uploads 0.2.2****AWS Required Permissions:**

s3:GetBucketLocation *Read Only*  
s3:GetBucketTagging *Read Only*  
s3:ListAllMyBuckets *Read Only*  
s3:ListBucketMultipartUploads *Read Only*  
s3:ListMultipartUploadParts *Read Only*  
sts:GetCallerIdentity *Read Only*

**AWS Optional Permissions:**

s3:AbortMultipartUpload *Write*

**Flexera Required Permissions:**

billing\_center\_viewer *Read Only*

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## AWS S3 Usage Type Rule-Based Dimension 0.1.5

### Flexera Required Permissions:

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

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## AWS Savings Plan Purchase Analysis 0.1.0

### AWS Required Permissions:

ce:GetCommitmentPurchaseAnalysis *Read Only*  
ce:ListCommitmentPurchaseAnalyses *Read Only*  
ce:StartCommitmentPurchaseAnalysis *Read Only*  
sts:GetCallerIdentity *Read Only*

### Flexera Required Permissions:

billing\_center\_viewer *Read Only*

---

## AWS Savings Plan Recommendations 3.4.4

### AWS Required Permissions:

ce:GetSavingsPlansPurchaseRecommendation *Read Only*

### Flexera Required Permissions:

billing\_center\_viewer *Read Only*

---

## AWS Savings Plan Utilization 4.1.1

### AWS Required Permissions:

ce:GetSavingsPlansUtilization *Read Only*  
savingsplans:DescribeSavingsPlans *Read Only*

### Flexera Required Permissions:

billing\_center\_viewer *Read Only*

---

## AWS Savings Realized From Rate Reduction Purchases 4.0.7

### Flexera Required Permissions:

billing\_center\_viewer *Read Only*

---

## AWS Schedule Instance 8.0.8

### AWS Required Permissions:

ec2:CreateTags *Write*

ec2:DeleteTags *Write*  
ec2:DescribeInstances *Read Only*  
ec2:DescribeRegions *Read Only*  
ec2:StartInstances *Write*  
ec2:StopInstances *Write*  
ec2:TerminateInstances *Write*  
kms:CreateGrant *Write*  
kms:Decrypt *Write*

**Flexera Required Permissions:**

billing\_center\_viewer *Read Only*

---

## **AWS Scheduled EC2 Events** 4.1.3

**AWS Required Permissions:**

ec2:DescribeInstanceStatus *Read Only*  
ec2:DescribeInstances *Read Only*  
ec2:DescribeRegions *Read Only*  
sts:GetCallerIdentity *Read Only*

**Flexera Required Permissions:**

billing\_center\_viewer *Read Only*

---

## **AWS Superseded EBS Volumes** 6.5.4

**AWS Required Permissions:**

ec2:DescribeRegions *Read Only*  
ec2:DescribeVolumes *Read Only*  
pricing:GetProducts *Read Only*  
sts:GetCallerIdentity *Read Only*

**AWS Optional Permissions:**

ec2:ModifyVolume *Write*

**Flexera Required Permissions:**

billing\_center\_viewer *Read Only*

---

## **AWS Superseded EC2 Instances** 3.2.4

**AWS Required Permissions:**

ec2:DescribeInstances *Read Only*  
ec2:DescribeRegions *Read Only*  
ec2:DescribeTags *Read Only*  
sts:GetCallerIdentity *Read Only*

**AWS Optional Permissions:**

ec2:DescribeInstanceStatus *Write*

ec2:ModifyInstanceAttribute *Write*  
ec2:StartInstances *Write*  
ec2:StopInstances *Write*

**Flexera Required Permissions:**

billing\_center\_viewer *Read Only*

---

## AWS Tag Cardinality Report 3.2.1

**AWS Required Permissions:**

ec2:DescribeRegions *Read Only*  
organizations:ListAccounts *Read Only*  
organizations:ListTagsForResource *Read Only*  
tag:GetResources *Read Only*

**Flexera Required Permissions:**

billing\_center\_viewer *Read Only*

---

## AWS Unencrypted EBS Volumes 5.0.8

**AWS Required Permissions:**

ec2:DescribeRegions *Read Only*  
ec2:DescribeVolumes *Read Only*  
sts:GetCallerIdentity *Read Only*

**Flexera Required Permissions:**

billing\_center\_viewer *Read Only*

---

## AWS Unencrypted RDS Instances 4.1.6

**AWS Required Permissions:**

ec2:DescribeRegions *Read Only*  
rds:DescribeDBInstances *Read Only*  
rds:ListTagsForResource *Read Only*  
sts:GetCallerIdentity *Read Only*

**AWS Optional Permissions:**

rds>DeleteDBInstance *Write*

**Flexera Required Permissions:**

billing\_center\_viewer *Read Only*

---

## AWS Untagged Resources 5.5.2

**AWS Required Permissions:**

ec2:DescribeRegions *Read Only*

sts:GetCallerIdentity *Read Only*  
tag:GetResources *Read Only*

**AWS Optional Permissions:**

organizations:TagResource *Write*  
tag:TagResources *Write*

**Flexera Required Permissions:**

billing\_center\_viewer *Read Only*

---

## **AWS Unused Application Load Balancers 0.4.4**

**AWS Required Permissions:**

ec2:DescribeRegions *Read Only*  
elasticloadbalancing:DescribeListeners *Read Only*  
elasticloadbalancing:DescribeLoadBalancers *Read Only*  
elasticloadbalancing:DescribeTags *Read Only*  
elasticloadbalancing:DescribeTargetGroups *Read Only*  
elasticloadbalancing:DescribeTargetHealth *Read Only*  
sts:GetCallerIdentity *Read Only*

**AWS Optional Permissions:**

elasticloadbalancing:DeleteLoadBalancer *Write*

**Flexera Required Permissions:**

billing\_center\_viewer *Read Only*

---

## **AWS Unused Classic Load Balancers 6.5.3**

**AWS Required Permissions:**

ec2:DescribeRegions *Read Only*  
elasticloadbalancing:DescribeInstanceHealth *Read Only*  
elasticloadbalancing:DescribeLoadBalancers *Read Only*  
elasticloadbalancing:DescribeTags *Read Only*  
sts:GetCallerIdentity *Read Only*

**AWS Optional Permissions:**

elasticloadbalancing:DeleteLoadBalancer *Write*

**Flexera Required Permissions:**

billing\_center\_viewer *Read Only*

---

## **AWS Unused ECS Clusters 4.2.3**

**AWS Required Permissions:**

ec2:DescribeRegions *Read Only*  
ecs:DescribeClusters *Read Only*

ecs:ListClusters *Read Only*  
sts:GetCallerIdentity *Read Only*

**AWS Optional Permissions:**

ecs>DeleteCluster *Write*

**Flexera Required Permissions:**

billing\_center\_viewer *Read Only*

---

## AWS Unused IAM Credentials 3.0.7

**AWS Required Permissions:**

iam:GenerateCredentialReport *Read Only*  
iam:GetCredentialReport *Read Only*  
sts:GetCallerIdentity *Read Only*

**Flexera Required Permissions:**

billing\_center\_viewer *Read Only*

---

## AWS Unused IP Addresses 9.4.4

**AWS Required Permissions:**

cloudtrail:LookupEvents *Read Only*  
ec2:DescribeAddresses *Read Only*  
ec2:DescribeRegions *Read Only*  
sts:GetCallerIdentity *Read Only*

**AWS Optional Permissions:**

ec2:ReleaseAddress *Write*

**Flexera Required Permissions:**

billing\_center\_viewer *Read Only*

---

## AWS Unused Network Load Balancers 0.4.4

**AWS Required Permissions:**

ec2:DescribeRegions *Read Only*  
elasticloadbalancing:DescribeListeners *Read Only*  
elasticloadbalancing:DescribeLoadBalancers *Read Only*  
elasticloadbalancing:DescribeTags *Read Only*  
elasticloadbalancing:DescribeTargetGroups *Read Only*  
elasticloadbalancing:DescribeTargetHealth *Read Only*  
sts:GetCallerIdentity *Read Only*

**AWS Optional Permissions:**

elasticloadbalancing>DeleteLoadBalancer *Write*



**Flexera Required Permissions:**

billing\_center\_viewer *Read Only*

---

**AWS Usage Forecast - Instance Time Used 1.1.5****Flexera Required Permissions:**

billing\_center\_viewer *Read Only*

---

**AWS Usage Report - Instance Time Used 1.1.4****Flexera Required Permissions:**

billing\_center\_viewer *Read Only*

---

**AWS VPCs Without FlowLogs Enabled 4.0.8****AWS Required Permissions:**

ec2:DescribeFlowLogs *Read Only*

ec2:DescribeRegions *Read Only*

ec2:DescribeVpcs *Read Only*

sts:GetCallerIdentity *Read Only*

**Flexera Required Permissions:**

billing\_center\_viewer *Read Only*

---

**Applied Policy Template Errors 4.0.6****Flexera Required Permissions:**

policy\_viewer *Read Only*

---

**Automation Reports 0.1.4****Flexera Required Permissions:**

policy\_viewer *Read Only*

**Flexera Optional Permissions:**

policy\_manager *Write*

---

**Azure AHUB Utilization with Manual Entry 4.1.1****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 0.2.1****Azure Resource Manager Required Permissions:**

Microsoft.Advisor/recommendations/read *Read Only*

**Flexera Required Permissions:**

billing\_center\_viewer *Read Only*

---

**Azure Advisor Compute Instances Recommendations 0.2.1****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 3.0.6****Azure Resource Manager Required Permissions:**

Microsoft.Storage/storageAccounts/read *Read Only*

**Azure Storage Required Permissions:**

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

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

**Flexera Required Permissions:**

billing\_center\_viewer *Read Only*

---

**Azure Blob Storage Accounts Without Soft Delete Enabled 3.0.6****Azure Resource Manager Required Permissions:**

Microsoft.Storage/storageAccounts/read *Read Only*

**Flexera Required Permissions:**

billing\_center\_viewer *Read Only*

---

**Azure Blob Storage Optimization 4.0.10**

### **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** 0.4.1

### **Flexera Required Permissions:**

billing\_center\_viewer *Read Only*

---

## **Azure Cheaper Regions** 1.0.5

### **Flexera Required Permissions:**

billing\_center\_viewer *Read Only*

---

## **Azure Compute Instances Time Powered Off Report** 0.3.1

### **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** 0.1.6

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

Microsoft.Resources/subscriptions/read *Read Only*

### **Flexera Required Permissions:**

billing\_center\_viewer *Read Only*

---

## Azure Data Lake Optimization 0.2.1

### 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 0.6.1

### 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 Deprecated Storage Accounts 0.2.1

### Azure Resource Manager Required Permissions:

Microsoft.Resources/subscriptions/read *Read Only*

Microsoft.Storage/storageAccounts/read *Read Only*

### Flexera Required Permissions:

billing\_center\_viewer *Read Only*

---

## Azure Disallowed Regions 4.1.7

### Azure Resource Manager Required Permissions:

Microsoft.Compute/virtualMachines/read *Read Only*

### Azure Resource Manager Optional Permissions:

Microsoft.Compute/virtualMachines/write *Write*

### Flexera Required Permissions:

billing\_center\_viewer *Read Only*

---

## Azure Expiring Certificates 4.1.1

### 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 3.1.1

### Flexera Required Permissions:

billing\_center\_viewer *Read Only*

---

## Azure Expiring Savings Plans 0.2.1

### Azure Resource Manager Required Permissions:

Microsoft.Billing/billingAccounts/read *Read Only*

### Flexera Required Permissions:

billing\_center\_viewer *Read Only*

---

## Azure Guest Users 3.0.6

### 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 5.2.2

### 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 Hybrid Use Benefit for SQL 4.4.1

### **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 5.3.1**

### **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 Instances not running FlexNet Inventory Agent 4.3.1**

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

Microsoft.Compute/virtualMachines/read *Read Only*

---

## **Azure Long Running Instances 6.2.1**

### **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 6.1.2**

### **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 0.1.6**

**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 3.0.6**

**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 3.0.6**

**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 3.0.6**

**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 3.0.6**

**Azure Resource Manager Required Permissions:**

Microsoft.Network/networkSecurityGroups/read *Read Only*

**Flexera Required Permissions:**

billing\_center\_viewer *Read Only*

---

**Azure New Marketplace Products** 0.6.1**Flexera Required Permissions:**

billing\_center\_viewer *Read Only*

---

**Azure Old Snapshots** 7.3.1**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** 0.2.1**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** 3.1.1**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 3.0.6

### 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 3.0.6

### 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 3.0.6

### 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 3.0.6

### 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 3.0.7

### 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 3.0.6**

### **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 3.0.6**

### **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 3.0.6**

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

Microsoft.Security/regulatoryComplianceStandards/read *Read Only*

### **Flexera Required Permissions:**

billing\_center\_viewer *Read Only*

---

## **Azure Reserved Instances Recommendations 4.4.1**

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

Microsoft.Consumption/reservationRecommendations/read *Read Only*

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

Microsoft.Billing/billingAccounts/read *Read Only*

### **Flexera Required Permissions:**

billing\_center\_viewer *Read Only*

---

## Azure Reserved Instances Utilization 4.1.1

### Flexera Required Permissions:

billing\_center\_viewer *Read Only*

---

## Azure Rightsize Compute Instances 6.3.1

### 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 2.7.2

### 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 0.3.1

### 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 0.3.1

### 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 2.1.2

### 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 0.2.1

### 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 6.1.1

### 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 0.3.1**

**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 0.4.1**

**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 0.2.2**

**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 2.1.1

### Azure Resource Manager Required Permissions:

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

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

Microsoft.Resources/tags/read *Read Only*

### Flexera Required Permissions:

billing\_center\_viewer *Read Only*

observer *Read Only*

rule\_based\_dimensions\_manager *Read Only*

---

## Azure Rule-Based Dimension From Subscription Tags 2.1.1

### 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 3.0.6

### 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 3.0.6

### 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 3.0.6

### 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 3.0.6

### 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 3.0.6

### 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 3.0.6

### 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) 3.0.6

### 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** 3.0.6

**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** 3.1.1

**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** 3.0.6

**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** 3.3.1

**Azure Resource Manager Required Permissions:**

Microsoft.CostManagement/benefitRecommendations/read *Read Only*

**Flexera Required Permissions:**

billing\_center\_viewer *Read Only*

---

**Azure Savings Plan Utilization** 0.2.1



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

Microsoft.Billing/billingAccounts/read *Read Only*

### **Flexera Required Permissions:**

billing\_center\_viewer *Read Only*

---

## **Azure Savings Realized from Reservations 3.9.7**

### **Flexera Required Permissions:**

billing\_center\_viewer *Read Only*

---

## **Azure Schedule Instance 7.0.9**

### **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 3.0.6**

### **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 3.0.6**

### **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 3.0.6**

### **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** 3.0.6

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

Microsoft.Storage/storageAccounts/read *Read Only*

### **Flexera Required Permissions:**

billing\_center\_viewer *Read Only*

---

## **Azure Storage Accounts without Lifecycle Management Policies** 4.1.1

### **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** 3.0.5

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

Microsoft.Resources/subscriptions/read *Read Only*

Microsoft.Security/securityContacts/read *Read Only*

### **Flexera Required Permissions:**

billing\_center\_viewer *Read Only*

---

## **Azure Subscriptions Without Log Analytics Auto-Provisioning** 3.0.6

### **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** 3.0.6

### **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 3.0.6

### 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 4.1.1

### Azure Resource Manager Required Permissions:

Microsoft.Compute/locations/vmSizes/read *Read Only*

Microsoft.Compute/virtualMachines/read *Read Only*

### Azure Resource Manager Optional Permissions:

Microsoft.Compute/virtualMachines/write *Write*

### Flexera Required Permissions:

billing\_center\_viewer *Read Only*

---

## Azure Table Storage Accounts Without Logging Enabled 3.0.6

### 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 3.3.1

### 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 3.4.1

### 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*

---

## Azure Untagged Virtual Machines 1.2.1

### 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*

---

## Azure Unused App Service Plans 0.2.1

### 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 0.3.1

### 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** 7.4.1

### **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** 0.2.1

### **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 Storage Accounts** 0.2.1

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

Microsoft.Insights/metrics/read *Read Only*

Microsoft.Resources/subscriptions/read *Read Only*

Microsoft.Storage/storageAccounts/read *Read Only*

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

Microsoft.Storage/storageAccounts/delete *Write*

### **Flexera Required Permissions:**

billing\_center\_viewer *Read Only*

---

## **Azure Unused Virtual Network Gateways** 0.2.1

### **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 8.3.1**

### **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 - Instance Time Used 1.0.9**

### **Flexera Required Permissions:**

billing\_center\_viewer *Read Only*

---

## **Azure VMs Not Using Managed Disks 4.1.1**

### **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 0.3.1**

### **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 3.0.6**

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

Microsoft.Web/sites/read *Read Only*

## **Flexera Required Permissions:**

billing\_center\_viewer *Read Only*

---

## **Billing Center Access Report 3.2.1**

### **Flexera Required Permissions:**

billing\_center\_viewer *Read Only*

enterprise\_manager *Read Only*

---

## **Budget Alerts 3.4.3**

### **Flexera Required Permissions:**

billing\_center\_viewer *Read Only*

---

## **Budget vs Actual Spend Report 2.5.7**

### **Flexera Required Permissions:**

billing\_center\_viewer *Read Only*

budget\_viewer *Read Only*

---

## **Cloud Bill Processing Error Notification 2.6.4**

### **Flexera Required Permissions:**

ca\_user *Read Only*

csm\_bill\_upload\_admin *Read Only*

enterprise\_manager *Read Only*

observer *Read Only*

---

## **Cloud Cost Anomaly Alerts 4.0.3**

### **Flexera Required Permissions:**

billing\_center\_viewer *Read Only*

policy\_manager *Read Only*

---

## **Cloud Spend Forecast - Straight-Line 4.0.6**

### **Flexera Required Permissions:**

billing\_center\_viewer *Read Only*

---

## Cloud Spend Moving Average Report 4.0.5

### Flexera Required Permissions:

billing\_center\_viewer *Read Only*

---

## Common Bill Ingestion from AWS S3 Object Storage 0.2.4

### AWS Optional Permissions:

s3:GetObject *Read Only*

### Flexera Required Permissions:

billing\_center\_viewer *Read Only*

csm\_bill\_upload\_admin *Read Only*

---

## Common Bill Ingestion from AWS S3 Object Storage (Iterating)

0.1.2

### AWS Optional Permissions:

s3:GetObject *Read Only*

s3:ListBucket *Read Only*

### Flexera Required Permissions:

billing\_center\_viewer *Read Only*

csm\_bill\_upload\_admin *Read Only*

---

## Common Bill Ingestion from Azure Blob Storage 0.2.4

### Azure Storage Required Permissions:

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

### Flexera Required Permissions:

billing\_center\_viewer *Read Only*

csm\_bill\_upload\_admin *Read Only*

---

## Common Bill Ingestion from Azure Blob Storage (Iterating) 0.1.2

### 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*

---



## Configure Custom Branding 0.1.4

### Flexera Optional Permissions:

manage\_organization *Read Only*

---

## Cost Reallocation 0.1.2

### Flexera Required Permissions:

billing\_center\_viewer *Read Only*

### Flexera Optional Permissions:

org\_owner *Read Only*

---

## Cost Reallocation - AWS Support 0.1.1

### Flexera Required Permissions:

billing\_center\_viewer *Read Only*

### Flexera Optional Permissions:

org\_owner *Read Only*

---

## Cost Reallocation - Google Cloud Logging 0.1.2

### Flexera Required Permissions:

billing\_center\_viewer *Read Only*

### Flexera Optional Permissions:

org\_owner *Read Only*

### Google Cloud Required Permissions:

cloudresourcemanager.projects.get *Read Only*

cloudresourcemanager.projects.list *Read Only*

compute.regions.list *Read Only*

monitoring.timeSeries.list *Read Only*

---

## Currency Conversion 5.1.1

### Flexera Required Permissions:

enterprise\_manager *Read Only*

---

## Dynamic Dashboards 0.2.1

### Flexera Required Permissions:

billing\_center\_viewer *Read Only*

csm\_dashboard\_admin *Read Only*

---

## **Email Cost Optimization Recommendations** 0.8.1

### **Flexera Required Permissions:**

billing\_center\_viewer *Read Only*

---

## **FinOps Dashboards** 0.1.3

### **Flexera Required Permissions:**

csm\_dashboard\_admin *Read Only*

---

## **Fixed Cost Common Bill Ingestion** 0.3.3

### **Flexera Required Permissions:**

billing\_center\_viewer *Read Only*

csm\_bill\_upload\_admin *Read Only*

---

## **Flexera Automation Disallowed Credentials** 0.1.4

### **Flexera Required Permissions:**

credential\_viewer *Read Only*

### **Flexera Optional Permissions:**

iam\_admin *Write*

---

## **Flexera Automation Expiring Credentials** 0.1.4

### **Flexera Required Permissions:**

credential\_viewer *Read Only*

### **Flexera Optional Permissions:**

iam\_admin *Write*

---

## **Flexera Automation Outdated Applied Policies** 0.2.8

### **Flexera Required Permissions:**

policy\_viewer *Read Only*

### **Flexera Optional Permissions:**

policy\_manager *Write*

---

## Flexera Billing Centers from Dimension Values 0.1.7

### Flexera Required Permissions:

billing\_center\_admin *Read Only*

---

## Flexera CCO Delete All Billing Centers 1.1.5

### Flexera Required Permissions:

billing\_center\_admin *Read Only*

policy\_manager *Read Only*

---

## Flexera FOCUS Report 0.2.1

### Flexera Required Permissions:

billing\_center\_viewer *Read Only*

---

## Flexera Onboarding 0.1.5

### Flexera Required Permissions:

org\_owner *Read Only*

---

## Flexera One API Event Report 0.1.4

### Flexera Required Permissions:

iam\_admin *Read Only*

---

## Flexera One User Access Report 0.1.5

### Flexera Required Permissions:

iam\_admin *Read Only*

---

## Flexera Users With Explicit Roles 4.0.5

### Flexera Required Permissions:

iam\_admin *Read Only*

---

## GitHub Available Seats 3.0.5

### Flexera Required Permissions:

billing\_center\_viewer *Read Only*

### GitHub Required Permissions:

admin:org *Read Only*

---

## **GitHub Repositories Without Admin Team** 3.0.5

### **Flexera Required Permissions:**

billing\_center\_viewer *Read Only*

### **GitHub Required Permissions:**

admin:org *Read Only*

---

## **GitHub Repository Branches Without Protection** 3.0.5

### **Flexera Required Permissions:**

billing\_center\_viewer *Read Only*

### **GitHub Required Permissions:**

admin:org *Read Only*

---

## **GitHub Undersized Repositories** 3.0.5

### **Flexera Required Permissions:**

billing\_center\_viewer *Read Only*

### **GitHub Required Permissions:**

admin:org *Read Only*

---

## **GitHub Unpermitted Outside Collaborators** 3.0.5

### **Flexera Required Permissions:**

billing\_center\_viewer *Read Only*

### **GitHub Required Permissions:**

admin:org *Read Only*

---

## **GitHub Unpermitted Repository Names** 3.0.5

### **Flexera Required Permissions:**

billing\_center\_viewer *Read Only*

### **GitHub Required Permissions:**

admin:org *Read Only*

---

## **GitHub Unpermitted Top-Level Teams** 3.0.5

**Flexera Required Permissions:**

billing\_center\_viewer *Read Only*

**GitHub Required Permissions:**

admin:org *Read Only*

---

**Google Cheaper Regions 1.0.5****Flexera Required Permissions:**

billing\_center\_viewer *Read Only*

---

**Google Cloud Run Anomaly Detection 0.3.1****Google Cloud Required Permissions:**

compute.regions.list *Read Only*

monitoring.timeSeries.list *Read Only*

resourcemanager.projects.get *Read Only*

run.services.list *Read Only*

---

**Google Cloud Storage Without Lifecycle Configuration 0.3.1****Flexera Required Permissions:**

billing\_center\_viewer *Read Only*

**Google Cloud Required Permissions:**

resourcemanager.projects.get *Read Only*

storage.buckets.list *Read Only*

---

**Google Committed Use Discount Recommender 4.5.2****Flexera Required Permissions:**

billing\_center\_viewer *Read Only*

**Google Cloud Required Permissions:**

compute.regions.list *Read Only*

recommender.usageCommitmentRecommendations.list *Read Only*

resourcemanager.projects.get *Read Only*

**Google Cloud Optional Permissions:**

billing.accounts.getSpendingInformation *Read Only*

billing.resourceCosts.get *Read Only*

---

**Google Committed Use Discount Report 3.2.1**

**Flexera Required Permissions:**

billing\_center\_viewer *Read Only*

**Google Cloud Required Permissions:**

compute.commitments.get *Read Only*

resourcemanager.projects.get *Read Only*

---

**Google Credential 0.1.6****Flexera Required Permissions:**

billing\_center\_viewer *Read Only*

**Google Cloud Required Permissions:**

resourcemanager.projects.get *Read Only*

---

**Google Expiring Committed Use Discounts (CUD) 3.2.1****Flexera Required Permissions:**

billing\_center\_viewer *Read Only*

**Google Cloud Required Permissions:**

compute.commitments.get *Read Only*

resourcemanager.projects.get *Read Only*

---

**Google Idle IP Address Recommender 4.4.2****Flexera Required Permissions:**

billing\_center\_viewer *Read Only*

**Google Cloud Required Permissions:**

compute.addresses.list *Read Only*

recommender.computeAddressIdleResourceRecommendations.list *Read Only*

resourcemanager.projects.get *Read Only*

**Google Cloud Optional Permissions:**

compute.addresses.delete *Write*

---

**Google Idle Persistent Disk Recommender 4.4.2****Flexera Required Permissions:**

billing\_center\_viewer *Read Only*

**Google Cloud Required Permissions:**

compute.disks.list *Read Only*

logging.logEntries.list *Read Only*

logging.privateLogEntries.list *Read Only*

logging.views.access *Read Only*  
recommender.computeDiskIdleResourceRecommendations.list *Read Only*  
resourcemanager.projects.get *Read Only*

### **Google Cloud Optional Permissions:**

compute.disks.createSnapshot *Write*  
compute.disks.delete *Write*  
compute.globalOperations.get *Write*  
compute.snapshots.create *Write*  
compute.zoneOperations.get *Write*

---

## **Google Label Cardinality Report 0.3.1**

### **Flexera Required Permissions:**

billing\_center\_viewer *Read Only*

### **Google Cloud Required Permissions:**

bigquery.datasets.get *Read Only*  
bigquery.datasets.list *Read Only*  
bigquery.tables.get *Read Only*  
bigquery.tables.list *Read Only*  
cloudsql.instances.get *Read Only*  
cloudsql.instances.list *Read Only*  
compute.addresses.get *Read Only*  
compute.addresses.list *Read Only*  
compute.disks.get *Read Only*  
compute.disks.list *Read Only*  
compute.images.get *Read Only*  
compute.images.list *Read Only*  
compute.instances.get *Read Only*  
compute.instances.list *Read Only*  
compute.snapshots.get *Read Only*  
compute.snapshots.list *Read Only*  
compute.storagePools.get *Read Only*  
compute.storagePools.list *Read Only*  
compute.vpnGateways.get *Read Only*  
compute.vpnGateways.list *Read Only*  
compute.vpnTunnels.get *Read Only*  
compute.vpnTunnels.list *Read Only*  
resourcemanager.projects.get *Read Only*  
resourcemanager.projects.list *Read Only*  
storage.buckets.get *Read Only*  
storage.buckets.list *Read Only*

---

## **Google Long Running VM Instances 0.1.0**

### **Flexera Required Permissions:**

billing\_center\_viewer *Read Only*

**Google Cloud Required Permissions:**

compute.instances.get *Read Only*

compute.instances.list *Read Only*

resourcemanager.projects.get *Read Only*

**Google Cloud Optional Permissions:**

compute.instances.delete *Write*

compute.instances.stop *Write*

---

## Google Long Stopped VM Instances 4.2.2

**Flexera Required Permissions:**

billing\_center\_viewer *Read Only*

**Google Cloud Required Permissions:**

compute.instances.get *Read Only*

compute.instances.list *Read Only*

monitoring.metricDescriptors.list *Read Only*

monitoring.timeSeries.list *Read Only*

resourcemanager.projects.get *Read Only*

**Google Cloud Optional Permissions:**

compute.instances.delete *Write*

compute.instances.stop *Write*

---

## Google Missing Projects 0.1.4

**Flexera Required Permissions:**

billing\_center\_viewer *Read Only*

**Google Cloud Required Permissions:**

resourcemanager.projects.get *Read Only*

---

## Google Object Storage Optimization 3.0.10

**Flexera Required Permissions:**

billing\_center\_viewer *Read Only*

**Google Cloud Required Permissions:**

resourcemanager.projects.get *Read Only*

storage.buckets.list *Read Only*

storage.objects.list *Read Only*

**Google Cloud Optional Permissions:**

storage.objects.create *Write*



storage.objects.delete *Write*

---

## Google Old Snapshots 5.4.1

### Flexera Required Permissions:

billing\_center\_viewer *Read Only*

### Google Cloud Required Permissions:

compute.disks.list *Read Only*

compute.regions.list *Read Only*

compute.snapshots.get *Read Only*

compute.snapshots.list *Read Only*

compute.zones.list *Read Only*

resourceManager.projects.get *Read Only*

### Google Cloud Optional Permissions:

compute.snapshots.delete *Write*

---

## Google Open Buckets 3.2.5

### Flexera Required Permissions:

billing\_center\_viewer *Read Only*

### Google Cloud Required Permissions:

resourceManager.projects.get *Read Only*

storage.buckets.get *Read Only*

storage.buckets.getIamPolicy *Read Only*

storage.buckets.list *Read Only*

---

## Google Overutilized VM Instances 0.2.1

### Flexera Required Permissions:

billing\_center\_viewer *Read Only*

### Google Cloud Required Permissions:

compute.instances.get *Read Only*

compute.instances.list *Read Only*

compute.machineTypes.list *Read Only*

monitoring.metricDescriptors.list *Read Only*

monitoring.timeSeries.list *Read Only*

resourceManager.projects.get *Read Only*

### Google Cloud Optional Permissions:

compute.instances.setMachineType *Write*

compute.instances.start *Write*

compute.instances.stop *Write*

---

## Google Recommenders 3.2.2

### Flexera Required Permissions:

billing\_center\_viewer *Read Only*

### Google Cloud Required Permissions:

resourcemanager.projects.get *Read Only*

### Google Cloud Optional Permissions:

recommender.cloudSecurityGeneralRecommendations.list *Read Only*

recommender.cloudsqlIdleInstanceRecommendations.list *Read Only*

recommender.cloudsqlInstanceOutOfDiskRecommendations.list *Read Only*

recommender.cloudsqlOverprovisionedInstanceRecommendations.list *Read Only*

recommender.computeAddressIdleResourceRecommendations.list *Read Only*

recommender.computeDiskIdleResourceRecommendations.list *Read Only*

recommender.computeImageIdleResourceRecommendations.list *Read Only*

recommender.computeInstanceGroupManagerMachineTypeRecommendations.list *Read Only*

recommender.computeInstanceIdleResourceRecommendations.list *Read Only*

recommender.computeInstanceMachineTypeRecommendations.list *Read Only*

recommender.containerDiagnosisRecommendations.list *Read Only*

recommender.iamPolicyRecommendations.list *Read Only*

recommender.loggingProductSuggestionContainerRecommendations.list *Read Only*

recommender.monitoringProductSuggestionComputeRecommendations.list *Read Only*

recommender.resourceManagerProjectUtilizationRecommendations.list *Read Only*

recommender.runServiceSecurityRecommendations.list *Read Only*

recommender.usageCommitmentRecommendations.list *Read Only*

---

## Google Rightsize Cloud SQL Instances 0.2.2

### Flexera Required Permissions:

billing\_center\_viewer *Read Only*

### Google Cloud Required Permissions:

cloudsql.instances.list *Read Only*

monitoring.metricDescriptors.list *Read Only*

monitoring.timeSeries.list *Read Only*

resourcemanager.projects.get *Read Only*

### Google Cloud Optional Permissions:

cloudsql.instances.delete *Write*

cloudsql.instances.update *Write*

---

## Google Rightsize Cloud SQL Recommender 0.4.2

### Flexera Required Permissions:

billing\_center\_viewer *Read Only*

### Google Cloud Required Permissions:

cloudsql.instances.list *Read Only*  
recommender.cloudsqlIdleInstanceRecommendations.list *Read Only*  
recommender.cloudsqlOverprovisionedInstanceRecommendations.list *Read Only*  
resourcemanager.projects.get *Read Only*

### Google Cloud Optional Permissions:

cloudsql.instances.delete *Write*  
cloudsql.instances.update *Write*

---

## Google Rightsize VM Instances 0.2.2

### Flexera Required Permissions:

billing\_center\_viewer *Read Only*

### Google Cloud Required Permissions:

compute.instances.get *Read Only*  
compute.instances.list *Read Only*  
monitoring.metricDescriptors.list *Read Only*  
monitoring.timeSeries.list *Read Only*  
resourcemanager.projects.get *Read Only*

### Google Cloud Optional Permissions:

compute.instances.delete *Write*  
compute.instances.setMachineType *Write*  
compute.instances.start *Write*  
compute.instances.stop *Write*

---

## Google Rightsize VM Recommender 3.3.2

### Flexera Required Permissions:

billing\_center\_viewer *Read Only*

### Google Cloud Required Permissions:

compute.instances.get *Read Only*  
compute.instances.list *Read Only*  
monitoring.metricDescriptors.list *Read Only*  
monitoring.timeSeries.list *Read Only*  
resourcemanager.projects.get *Read Only*

### Google Cloud Optional Permissions:

compute.instances.delete *Write*  
compute.instances.setMachineType *Write*  
compute.instances.start *Write*  
compute.instances.stop *Write*  
recommender.computeInstanceIdleResourceRecommendations.list *Read Only*  
recommender.computeInstanceMachineTypeRecommendations.list *Read Only*

---

## Google Rule-Based Dimension From Project Labels 2.1.1

### Flexera Required Permissions:

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

### Google Cloud Required Permissions:

resourcemanager.projects.get *Read Only*

---

## Google Schedule Instance 6.0.7

### Flexera Required Permissions:

billing\_center\_viewer *Read Only*

### Google Cloud Required Permissions:

compute.instances.delete *Write*  
compute.instances.get *Read Only*  
compute.instances.list *Read Only*  
compute.instances.setLabels *Write*  
compute.instances.start *Write*  
compute.instances.stop *Write*  
compute.zones.list *Read Only*  
resourcemanager.projects.get *Read Only*

---

## Google Unlabeled Resources 3.3.1

### Flexera Required Permissions:

billing\_center\_viewer *Read Only*

### Google Cloud Required Permissions:

compute.disks.list *Read Only*  
compute.externalVpnGateways.list *Read Only*  
compute.images.list *Read Only*  
compute.instances.list *Read Only*  
compute.snapshots.list *Read Only*  
compute.vpnGateways.list *Read Only*  
resourcemanager.projects.get *Read Only*  
storage.buckets.list *Read Only*

### Google Cloud Optional Permissions:

compute.disks.setLabels *Write*  
compute.externalVpnGateways.setLabels *Write*  
compute.images.setLabels *Write*  
compute.instances.setLabels *Write*  
compute.snapshots.setLabels *Write*  
compute.vpnGateways.setLabels *Write*

resourcemanager.projects.update *Write*  
storage.buckets.update *Write*

---

## Google Unused Disks 0.2.2

### Flexera Required Permissions:

billing\_center\_viewer *Read Only*

### Google Cloud Required Permissions:

compute.disks.list *Read Only*

compute.zones.list *Read Only*

resourcemanager.projects.get *Read Only*

### Google Cloud Optional Permissions:

compute.disks.createSnapshot *Write*

compute.disks.delete *Write*

---

## Hidden Policy Templates 0.1.5

### Flexera Required Permissions:

policy\_designer *Read Only*

policy\_manager *Read Only*

---

## ITAM Asset Report 0.1.4

### Flexera Required Permissions:

di\_viewer *Read Only*

policy\_viewer *Read Only*

---

## ITAM Expiring Licenses 2.4.6

### Flexera Required Permissions:

fnms\_user *Read Only*

---

## ITAM Ignored Recent Inventory Dates 2.4.5

### Flexera Required Permissions:

fnms\_user *Read Only*

---

## ITAM Installed Application Report 0.1.4

### Flexera Required Permissions:

di\_viewer *Read Only*

policy\_viewer *Read Only*

---

## **ITAM License Report** 0.1.4

### **Flexera Required Permissions:**

di\_viewer *Read Only*

policy\_viewer *Read Only*

---

## **ITAM Missing Active Machines** 2.4.5

### **Flexera Required Permissions:**

fnms\_user *Read Only*

---

## **ITAM Overused Licenses** 2.4.6

### **Flexera Required Permissions:**

fnms\_user *Read Only*

---

## **Kubecost Cluster Rightsizing Recommendation** 0.5.1

### **Flexera Required Permissions:**

billing\_center\_viewer *Read Only*

---

## **Kubecost Container Request Rightsizing Recommendations** 0.5.1

### **Flexera Required Permissions:**

billing\_center\_viewer *Read Only*

---

## **Kubernetes - Rightsizing Recommendations** 0.2.2

### **Flexera Required Permissions:**

policy\_viewer *Read Only*

---

## **Low Usage Report** 3.2.1

### **Flexera Required Permissions:**

billing\_center\_viewer *Read Only*

---

## **Master Org Cost Policy** 2.0.5

### **Flexera Required Permissions:**

billing\_center\_viewer *Read Only*

---

## **Master Org Cost Policy with Currency Conversion** 2.0.5

### **Flexera Required Permissions:**

billing\_center\_viewer *Read Only*

---

## **New Usage** 3.1.1

### **Flexera Required Permissions:**

billing\_center\_viewer *Read Only*

---

## **Office 365 Security Alerts** 3.0.5

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

SecurityEvents.Read.All *Read Only*

### **Flexera Required Permissions:**

billing\_center\_viewer *Read Only*

---

## **Okta Inactive Users** 3.0.5

### **Flexera Required Permissions:**

billing\_center\_viewer *Read Only*

### **Okta Required Permissions:**

READ\_ONLY\_ADMIN *Read Only*

---

## **Oracle Cloud Advisor: Object Storage Without Lifecycle Management** 0.2.1

### **Flexera Required Permissions:**

billing\_center\_viewer *Read Only*

### **Required Permissions:**

Allow group to read optimizer-api-family in tenancy *Read Only*

Allow group to read optimizer-resource-metadata in tenancy *Read Only*

---

## **Oracle Cloud Advisor: Rightsize Autonomous Database Service** 0.2.1

### **Flexera Required Permissions:**

billing\_center\_viewer *Read Only*

**Required Permissions:**

Allow group to read optimizer-api-family in tenancy *Read Only*

Allow group to read optimizer-resource-metadata in tenancy *Read Only*

**Optional Permissions:**

Allow group to use autonomous-databases in tenancy *Write*

---

**Oracle Cloud Advisor: Rightsize Base Database Service** 0.2.1**Flexera Required Permissions:**

billing\_center\_viewer *Read Only*

**Required Permissions:**

Allow group to read optimizer-api-family in tenancy *Read Only*

Allow group to read optimizer-resource-metadata in tenancy *Read Only*

**Optional Permissions:**

Allow group to use db-systems in tenancy *Write*

---

**Oracle Cloud Advisor: Rightsize Load Balancers** 0.2.1**Flexera Required Permissions:**

billing\_center\_viewer *Read Only*

**Required Permissions:**

Allow group to read optimizer-api-family in tenancy *Read Only*

Allow group to read optimizer-resource-metadata in tenancy *Read Only*

**Optional Permissions:**

Allow group to use load-balancers in tenancy *Write*

---

**Oracle Cloud Advisor: Rightsize Virtual Machines** 0.3.1**Flexera Required Permissions:**

billing\_center\_viewer *Read Only*

**Required Permissions:**

Allow group to read optimizer-api-family in tenancy *Read Only*

Allow group to read optimizer-resource-metadata in tenancy *Read Only*

**Optional Permissions:**

Allow group to manage instance-family in tenancy *Write*

Allow group to use instance-family in tenancy *Write*

Allow group to use virtual-network-family in tenancy *Write*

Allow group to use volume-family in tenancy *Write*

---



## Oracle Cloud Advisor: Unattached Volumes 0.2.1

### Flexera Required Permissions:

billing\_center\_viewer *Read Only*

### Required Permissions:

Allow group to read optimizer-api-family in tenancy *Read Only*

Allow group to read optimizer-resource-metadata in tenancy *Read Only*

### Optional Permissions:

Allow group to manage volume-family in tenancy *Write*

---

## Oracle Cloud Common Bill Ingestion 3.3.4

### Flexera Required Permissions:

org\_owner *Read Only*

### Required Permissions:

define tenancy usage-report as *Read Only*

endorse group to read objects in tenancy usage-report *Read Only*

---

## Oracle Tag Cardinality Report 0.1.0

### Required Permissions:

Allow group to inspect all-resources in tenancy *Read Only*

---

## Percentage Cost Common Bill Ingestion 0.1.2

### Flexera Required Permissions:

billing\_center\_viewer *Read Only*

csm\_bill\_upload\_admin *Read Only*

---

## Policy Template Synchronization 3.0.5

### Flexera Required Permissions:

policy\_designer *Read Only*

policy\_manager *Read Only*

---

## Rule-Based Dimension From Custom Tags 0.1.4

### Flexera Required Permissions:

billing\_center\_viewer *Read Only*

observer *Read Only*

rule\_based\_dimensions\_manager *Read Only*

---

## **SaaS Manager - Deactivated Users** 3.1.6

### **Flexera Required Permissions:**

SaaS Manager: Viewer *Read Only*

---

## **SaaS Manager - Deactivated Users for Integrated Applications** 3.1.6

### **Flexera Required Permissions:**

SaaS Manager: Viewer *Read Only*

---

## **SaaS Manager - Duplicate User Accounts** 3.1.6

### **Flexera Required Permissions:**

SaaS Manager: Viewer *Read Only*

---

## **SaaS Manager - Redundant Apps** 3.1.6

### **Flexera Required Permissions:**

SaaS Manager: Viewer *Read Only*

---

## **SaaS Manager - Renewal Reminder** 3.2.6

### **Flexera Required Permissions:**

SaaS Manager: Viewer *Read Only*

---

## **SaaS Manager - SaaS App User Report by Category** 3.0.5

### **Flexera Required Permissions:**

SaaS Manager: Viewer *Read Only*

---

## **SaaS Manager - Suspicious Users** 3.1.6

### **Flexera Required Permissions:**

SaaS Manager: Viewer *Read Only*

---

## **SaaS Manager - Unsanctioned Applications with Existing Contract** 3.2.6

### **Flexera Required Permissions:**

SaaS Manager: Viewer *Read Only*

---

## SaaS Manager - Unsanctioned Spend 3.1.6

### Flexera Required Permissions:

SaaS Manager: Viewer *Read Only*

---

## Schedule ITAM Report 0.2.4

### Flexera Required Permissions:

fnms\_user *Read Only*

---

## Scheduled Report 4.0.5

### Flexera Required Permissions:

billing\_center\_viewer *Read Only*

---

## Scheduled Report for Unallocated Costs 0.3.4

### Flexera Required Permissions:

billing\_center\_viewer *Read Only*

---

## Scheduled Report with Markups and Markdowns 2.0.3

### Flexera Required Permissions:

billing\_center\_viewer *Read Only*

---

## ServiceNow Inactive Approvers 3.0.5

### Flexera Required Permissions:

billing\_center\_viewer *Read Only*

### ServiceNow Required Permissions:

user\_admin *Read Only*

---

## Spot Ocean Common Bill Ingestion 0.2.4

### Flexera Required Permissions:

billing\_center\_viewer *Read Only*

csm\_bill\_upload\_admin *Read Only*

---

## Spot Security - Compliance Report 0.1.4

### Flexera Required Permissions:

policy\_viewer *Read Only*

---

**Vendor Spend Commitment Forecast** 4.0.6

**Flexera Required Permissions:**

billing\_center\_viewer *Read Only*

---