



# 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.
- 

## 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*

---

## 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*

---

## AWS Account Credentials 0.1.9

### AWS Required Permissions:

sts:GetCallerIdentity *Read Only*

### Flexera Required Permissions:

billing\_center\_viewer *Read Only*

---

## 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*

---

## 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:ModifyInstanceStateAttribute *Write*

ec2:StartInstances *Write*

ec2:StopInstances *Write*

### Flexera Required Permissions:

billing\_center\_viewer *Read Only*

---

## AWS Cheaper Regions 1.0.5

### Flexera Required Permissions:

billing\_center\_viewer *Read Only*

---

## 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*

---

## 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*

---

## 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*

---

## 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*

---

## 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*

---

## 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*

---

## 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*

---

## AWS Cost Report - EC2 Instance Cost Per Hour

0.2.4

**Flexera Required Permissions:**  
billing\_center\_viewer *Read Only*

---

## 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*

---

## 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*

---

## 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:ModifyInstanceStateAttribute *Write*

ec2:StartInstances *Write*

ec2:StopInstances *Write*

### Flexera Required Permissions:

billing\_center\_viewer *Read Only*

---

## 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:DescribeInstanceState *Write*

ec2:StopInstances *Write*

ec2:TerminateInstances *Write*

### Flexera Required Permissions:

billing\_center\_viewer *Read Only*

---

## AWS EC2 Instances not running FlexNet Inventory Agent 4.4.1

### AWS Required Permissions:

ec2:DescribeInstances *Read Only*

ec2:DescribeRegions *Read Only*

---

## 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*

---

## 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*

---

## AWS Expiring Reserved Instances 3.1.1

**Flexera Required Permissions:**

billing\_center\_viewer *Read Only*

---

## AWS Expiring Savings Plans 3.1.1

**AWS Required Permissions:**

savingsplans:DescribeSavingsPlans *Read Only*

**Flexera Required Permissions:**

billing\_center\_viewer *Read Only*

---

## 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*

---

## 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*

---

**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*

---

**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*

---

**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*

---

**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*

---

## 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*

---

## 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*

---

## 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*

---

## 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*

---

## 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*

---

**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*

---

**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*

---

**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*

---

**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*

---

## 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*

---

## 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*

---

## 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*

---

## 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*

---

## 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*

---

## 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*

---

## AWS New Marketplace Products 0.4.1

**Flexera Required Permissions:**

billing\_center\_viewer *Read Only*

---

## 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*

---

**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*

---

**AWS Open S3 Buckets 3.1.9**

**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*

---

## 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*

---

## 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:ModifyInstanceStateAttribute *Write*  
ec2:StartInstances *Write*  
ec2:StopInstances *Write*

### Flexera Required Permissions:

billing\_center\_viewer *Read Only*

---

## 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*

---

## 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*

---

**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*

---

**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*

---

**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*

---

**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*

---

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

ce:GetReservationCoverage *Read Only*

**Flexera Required Permissions:**

billing\_center\_viewer *Read Only*

---

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

ce:GetReservationPurchaseRecommendation *Read Only*

**Flexera Required Permissions:**

billing\_center\_viewer *Read Only*

---

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

billing\_center\_viewer *Read Only*

---

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

billing\_center\_viewer *Read Only*

---

**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*

---

## 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:ModifyInstanceStateAttribute *Write*  
ec2:StartInstances *Write*  
ec2:StopInstances *Write*  
ec2:TerminateInstances *Write*

### Flexera Required Permissions:

billing\_center\_viewer *Read Only*

---

## 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*

---

## 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*

---

## 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*

---

## 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*

---

## AWS S3 Buckets Accepting HTTP Requests 3.0.9

**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*

---

## AWS S3 Buckets Without Default Encryption Configuration 3.0.8

**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*

---

## 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*

---

## 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*

---

## AWS S3 Buckets Without MFA Delete Enabled 3.0.8

**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*

---

**AWS S3 Buckets Without Public Access Blocked** 3.0.8**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*

---

**AWS S3 Buckets Without Server Access Logging** 3.0.8**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*

---

**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*

---

## 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*

---

## 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*

---