



# 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 3.0.3

### Azure Resource Manager Required Permissions:

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

Microsoft.ContainerService/managedClusters/read *Read Only*

### Flexera Required Permissions:

billing\_center\_viewer *Read Only*

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## AKS Node Pools Without Zero Autoscaling 3.1.3

### 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 0.1.5

### 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 3.0.3

### 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 4.4.1

### 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 1.0.2

### Flexera Required Permissions:

billing\_center\_viewer *Read Only*

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## AWS CloudTrail Not Enabled In All Regions 3.0.3

### 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 3.0.3

### 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 3.0.3

### 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 0.1.3

### 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 3.0.3

### 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 3.0.4

### 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**

3.0.3

**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** 0.2.1

**Flexera Required Permissions:**

billing\_center\_viewer *Read Only*

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

3.0.3

**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** 5.0.3

**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** 0.3.3

### **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** 0.2.3

### **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 EC2 Instances not running FlexNet Inventory Agent** 4.3.4

### **AWS Required Permissions:**

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

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## **AWS EKS Clusters Without Spot Instances** 0.1.3

### **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 4.0.3**

**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 3.0.2**

**Flexera Required Permissions:**

billing\_center\_viewer *Read Only*

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## **AWS Expiring Savings Plans 3.0.2**

**AWS Required Permissions:**

savingsplans:DescribeSavingsPlans *Read Only*

**Flexera Required Permissions:**

billing\_center\_viewer *Read Only*

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## **AWS GP3 Upgradeable Volumes 4.4.6**

**AWS Required Permissions:**

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

**Flexera Required Permissions:**

billing\_center\_viewer *Read Only*

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## **AWS IAM Account Missing Support Role 3.0.4**

**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 3.0.4****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 3.0.4****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 3.0.4****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 3.0.4****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 3.0.5

### 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 3.0.4

### 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 3.0.4

### 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 3.0.4

### 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 3.0.4

### 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 3.0.4****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 3.0.4****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 3.0.4****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 3.0.4****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 Compute Instances 5.6.6

### 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*

### Flexera Required Permissions:

billing\_center\_viewer *Read Only*

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## AWS Idle NAT Gateways 0.1.4

### 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 4.0.3

### 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 5.0.3

### 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 0.1.3

**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 5.1.3

**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 6.0.3

**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** 0.2.3

### **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** 0.3.5

### **Flexera Required Permissions:**

billing\_center\_viewer *Read Only*

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## **AWS Object Storage Optimization** 4.0.5

### **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** 8.4.5

### **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** 3.1.3

**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** 3.1.3

**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** 0.1.1

**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 3.0.3**

**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 5.1.1**

**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 4.2.6**

**AWS Required Permissions:**

ec2:DescribeRegions *Read Only*

rds:DescribeDBInstances *Read Only*

sts:GetCallerIdentity *Read Only*

**Flexera Required Permissions:**

billing\_center\_viewer *Read Only*

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## AWS RDS Instances With Unapproved Backup Settings 3.0.3

### 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 4.0.4

### 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 3.0.3

### 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 4.0.2

### 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 3.0.2

### AWS Required Permissions:

ce:GetReservationCoverage *Read Only*

**Flexera Required Permissions:**

billing\_center\_viewer *Read Only*

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## **AWS Reserved Instances Recommendations** 3.6.4

**AWS Required Permissions:**

ce:GetReservationPurchaseRecommendation *Read Only*

**Flexera Required Permissions:**

billing\_center\_viewer *Read Only*

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## **AWS Reserved Instances Utilization** 3.0.2

**Flexera Required Permissions:**

billing\_center\_viewer *Read Only*

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## **AWS Resources Under Extended Support** 0.2.4

**Flexera Required Permissions:**

billing\_center\_viewer *Read Only*

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## **AWS Rightsize EBS Volumes** 0.3.5

**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** 5.4.1

**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 0.3.1**

**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 5.8.2**

**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 0.1.4**

**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 3.0.1****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 3.0.3****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 3.0.3****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 4.0.3

### AWS Required Permissions:

s3:GetBucketLocation *Read Only*  
s3:GetBucketTagging *Read Only*  
s3:GetIntelligentTieringConfiguration *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 Lifecycle Configuration 0.1.2

### 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 3.0.3

### 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 3.0.3

### 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** 3.0.3

### **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** 0.1.1

### **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** 0.1.1

### **Flexera Required Permissions:**

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

---

## **AWS Savings Plan Recommendations** 3.3.4

### **AWS Required Permissions:**

ce:GetSavingsPlansPurchaseRecommendation *Read Only*

### **Flexera Required Permissions:**

billing\_center\_viewer *Read Only*

---

## **AWS Savings Plan Utilization** 4.0.3

### **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** 4.0.2

### **Flexera Required Permissions:**

billing\_center\_viewer *Read Only*

---

## **AWS Schedule Instance** 8.0.1

### **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** 4.0.3

### **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** 6.3.7

**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** 2.4.1**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** 3.1.5**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** 5.0.3**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** 4.1.1**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** 5.4.1**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** 0.2.4**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 6.4.4

### 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 4.0.3

### 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 3.0.4

### 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 9.2.4

### 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** 0.2.4

**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 Volumes** 8.3.5

**AWS Required Permissions:**

cloudwatch:GetMetricData *Read Only*

cloudwatch:GetMetricStatistics *Read Only*

ec2:DescribeRegions *Read Only*

ec2:DescribeSnapshots *Read Only*

ec2:DescribeVolumes *Read Only*

**AWS Optional Permissions:**

ec2:CreateSnapshot *Write*

ec2:CreateTags *Write*

ec2:DeleteVolume *Write*

ec2:DetachVolume *Write*

**Flexera Required Permissions:**

billing\_center\_viewer *Read Only*

---

**AWS Usage Forecast - Instance Time Used** 1.1.1

**Flexera Required Permissions:**

billing\_center\_viewer *Read Only*

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## AWS Usage Forecast - Number of Instance Hours Used 3.3.6

### Flexera Required Permissions:

billing\_center\_viewer *Read Only*

---

## AWS Usage Forecast - Number of Instance vCPUs Used 3.3.6

### Flexera Required Permissions:

billing\_center\_viewer *Read Only*

---

## AWS Usage Report - Instance Time Used 1.1.1

### Flexera Required Permissions:

billing\_center\_viewer *Read Only*

---

## AWS Usage Report - Number of Instance Hours Used 4.1.6

### Flexera Required Permissions:

billing\_center\_viewer *Read Only*

---

## AWS Usage Report - Number of Instance vCPUs Used 4.1.6

### Flexera Required Permissions:

billing\_center\_viewer *Read Only*

---

## AWS VPCs Without FlowLogs Enabled 4.0.3

### 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 4.0.2

### Flexera Required Permissions:

policy\_viewer *Read Only*

---

## Azure AHUB Utilization with Manual Entry 4.0.3

### Azure Resource Manager Required Permissions:

Microsoft.Compute/virtualMachines/read *Read Only*

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

### Flexera Required Permissions:

billing\_center\_viewer *Read Only*

---

## Azure Advisor Carbon Reduction Recommendations 0.1.2

### Azure Resource Manager Required Permissions:

Microsoft.Advisor/recommendations/read *Read Only*

### Flexera Required Permissions:

billing\_center\_viewer *Read Only*

---

## Azure Advisor Compute Instances Recommendations 0.1.2

### 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 3.0.2

### Azure Resource Manager Required Permissions:

Microsoft.Storage/storageAccounts/read *Read Only*

### Azure Storage Required Permissions:

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

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

### Flexera Required Permissions:

billing\_center\_viewer *Read Only*

---

## Azure Blob Storage Accounts Without Soft Delete Enabled 3.0.2

### Azure Resource Manager Required Permissions:

Microsoft.Storage/storageAccounts/read *Read Only*

**Flexera Required Permissions:**

billing\_center\_viewer *Read Only*

---

**Azure Blob Storage Optimization 4.0.5****Azure Resource Manager Required Permissions:**

Microsoft.Storage/storageAccounts/read *Read Only*

**Azure Storage Required Permissions:**

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

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

**Azure Storage Optional Permissions:**

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

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

**Flexera Required Permissions:**

billing\_center\_viewer *Read Only*

---

**Azure Bring-Your-Own-License (BYOL) Report 0.3.3****Flexera Required Permissions:**

billing\_center\_viewer *Read Only*

---

**Azure Cheaper Regions 1.0.2****Flexera Required Permissions:**

billing\_center\_viewer *Read Only*

---

**Azure China Common Bill Ingestion 2.0.3****Azure China Enterprise Agreement Required Permissions:**

Enterprise Agreement *Read Only*

**Flexera Required Permissions:**

billing\_center\_viewer *Read Only*

---

**Azure Compute Instances Time Powered Off Report 0.2.2****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** 0.1.2

**Azure Resource Manager Required Permissions:**

Microsoft.Resources/subscriptions/read *Read Only*

**Flexera Required Permissions:**

billing\_center\_viewer *Read Only*

---

**Azure Data Lake Optimization** 0.1.1

**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** 0.4.1

**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 Disallowed Regions** 4.1.3

**Azure Resource Manager Required Permissions:**

Microsoft.Compute/virtualMachines/read *Read Only*

**Azure Resource Manager Optional Permissions:**

Microsoft.Compute/virtualMachines/write *Write*

**Flexera Required Permissions:**

billing\_center\_viewer *Read Only*

---

**Azure Expiring Certificates 4.0.3****Azure Resource Manager Required Permissions:**

Microsoft.Web/certificates/read *Read Only*

**Azure Resource Manager Optional Permissions:**

Microsoft.Web/certificates/delete *Write*

**Flexera Required Permissions:**

billing\_center\_viewer *Read Only*

---

**Azure Expiring Reserved Instances 3.0.2****Flexera Required Permissions:**

billing\_center\_viewer *Read Only*

---

**Azure Expiring Savings Plans 0.1.3****Azure Resource Manager Required Permissions:**

Microsoft.Billing/billingAccounts/read *Read Only*

**Flexera Required Permissions:**

billing\_center\_viewer *Read Only*

---

**Azure Guest Users 3.0.3****Microsoft Graph Required Permissions:**

Directory.Read.All *Read Only*

User.Read.All *Read Only*

**Flexera Required Permissions:**

billing\_center\_viewer *Read Only*

---

**Azure Hybrid Use Benefit for Linux Server 5.1.4****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** 4.3.1

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

Microsoft.Sql/managedInstances/read *Read Only*

Microsoft.Sql/servers/read *Read Only*

Microsoft.SqlVirtualMachine/sqlVirtualMachines/read *Read Only*

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

Microsoft.Sql/managedInstances/write *Write*

Microsoft.Sql/servers/write *Write*

Microsoft.SqlVirtualMachine/sqlVirtualMachines/write *Write*

### **Flexera Required Permissions:**

billing\_center\_viewer *Read Only*

---

## **Azure Hybrid Use Benefit for Windows Server** 5.2.4

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

Microsoft.Compute/virtualMachines/read *Read Only*

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

Microsoft.Compute/virtualMachines/write *Write*

### **Flexera Required Permissions:**

billing\_center\_viewer *Read Only*

---

## **Azure Idle Compute Instances** 5.5.5

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

Microsoft.Compute/virtualMachines/read *Read Only*

Microsoft.Insights/metrics/read *Read Only*

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

Microsoft.Compute/virtualMachines/write *Write*

### **Flexera Required Permissions:**

billing\_center\_viewer *Read Only*

---

## **Azure Instances not running FlexNet Inventory Agent** 4.2.2

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

Microsoft.Compute/virtualMachines/read *Read Only*

---

## Azure Long Running Instances 6.1.3

### Azure Resource Manager Required Permissions:

Microsoft.Compute/virtualMachines/read *Read Only*

### Azure Resource Manager Optional Permissions:

Microsoft.Compute/virtualMachines/write *Write*

### Flexera Required Permissions:

billing\_center\_viewer *Read Only*

---

## Azure Long Stopped Compute Instances 6.0.2

### 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 0.1.3

### 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 3.0.2

### 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 3.0.2



### **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 3.0.2**

### **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 3.0.2**

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

Microsoft.Network/networkSecurityGroups/read *Read Only*

### **Flexera Required Permissions:**

billing\_center\_viewer *Read Only*

---

## **Azure New Marketplace Products 0.5.1**

### **Flexera Required Permissions:**

billing\_center\_viewer *Read Only*

---

## **Azure Old Snapshots 7.2.3**

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

Microsoft.Compute/snapshots/read *Read Only*

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

Microsoft.Compute/snapshots/delete *Write*

### **Flexera Required Permissions:**

billing\_center\_viewer *Read Only*

---

## **Azure Overutilized Compute Instances 0.1.1**

### **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 3.0.3**

**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 3.0.2**

**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 3.0.2**

**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 3.0.2**

**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 3.0.2**

### **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 3.0.3**

### **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 3.0.2**

### **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 3.0.2**

### **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 3.0.2**

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

Microsoft.Security/regulatoryComplianceStandards/read *Read Only*

**Flexera Required Permissions:**

billing\_center\_viewer *Read Only*

---

**Azure Reserved Instances Recommendations** 4.2.1

**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** 3.1.4

**Azure Resource Manager Required Permissions:**

Microsoft.Billing/billingAccounts/read *Read Only*

Microsoft.Consumption/reservationSummaries/read *Read Only*

Microsoft.Consumption/reservationTransactions/read *Read Only*

---

**Azure Reserved Instances Utilization MCA** 1.0.3

**Azure Resource Manager Required Permissions:**

Microsoft.Capacity/reservations/read *Read Only*

---

**Azure Rightsize Compute Instances** 6.2.1

**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/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 2.6.1

### Azure Resource Manager Required Permissions:

Microsoft.Compute/disks/read *Read Only*

Microsoft.Compute/virtualMachines/read *Read Only*

Microsoft.Insights/metrics/read *Read Only*

### Flexera Required Permissions:

billing\_center\_viewer *Read Only*

---

## Azure Rightsize MySQL Flexible Servers 0.2.3

### Azure Resource Manager Required Permissions:

Microsoft.DBforMySQL/flexibleServers/read *Read Only*

Microsoft.Insights/metrics/read *Read Only*

### Azure Resource Manager Optional Permissions:

Microsoft.DBforMySQL/flexibleServers/delete *Write*

Microsoft.DBforMySQL/flexibleServers/update *Write*

### Flexera Required Permissions:

billing\_center\_viewer *Read Only*

---

## Azure Rightsize MySQL Single Servers 0.2.3

### Azure Resource Manager Required Permissions:

Microsoft.DBforMySQL/servers/read *Read Only*

Microsoft.Insights/metrics/read *Read Only*

### Azure Resource Manager Optional Permissions:

Microsoft.DBforMySQL/servers/delete *Write*

Microsoft.DBforMySQL/servers/update *Write*

### Flexera Required Permissions:

billing\_center\_viewer *Read Only*

---

## Azure Rightsize NetApp Resources 2.0.6

### Azure Resource Manager Required Permissions:

Microsoft.Insights/metrics/read *Read Only*

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

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

### Azure Resource Manager Optional Permissions:

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

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

**Flexera Required Permissions:**

billing\_center\_viewer *Read Only*

---

**Azure Rightsize SQL Database Storage 0.1.4****Azure Resource Manager Required Permissions:**

Microsoft.Insights/metrics/read *Read Only*

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

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

Microsoft.Sql/servers/read *Read Only*

**Flexera Required Permissions:**

billing\_center\_viewer *Read Only*

---

**Azure Rightsize SQL Databases 6.0.1****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 0.2.4****Azure Resource Manager Required Permissions:**

Microsoft.Insights/metrics/read *Read Only*

Microsoft.Sql/managedInstances/metrics/read *Read Only*

Microsoft.Sql/managedInstances/read *Read Only*

**Azure Resource Manager Optional Permissions:**

Microsoft.Sql/managedInstances/update *Write*

**Flexera Required Permissions:**

billing\_center\_viewer *Read Only*

---

**Azure Rightsize SQL Managed Instances 0.3.3****Azure Resource Manager Required Permissions:**

Microsoft.Insights/metrics/read *Read Only*

Microsoft.Sql/managedInstances/metrics/read *Read Only*  
Microsoft.Sql/managedInstances/read *Read Only*

**Azure Resource Manager Optional Permissions:**

Microsoft.Sql/managedInstances/delete *Write*  
Microsoft.Sql/managedInstances/update *Write*

**Flexera Required Permissions:**

billing\_center\_viewer *Read Only*

---

**Azure Rightsize Synapse SQL Pools 0.1.3**

**Azure Resource Manager Required Permissions:**

Microsoft.Insights/metrics/read *Read Only*  
Microsoft.Synapse/sqlPools/delete *Read Only*  
Microsoft.Synapse/sqlPools/pause/action *Read Only*  
Microsoft.Synapse/sqlPools/read *Read Only*  
Microsoft.Synapse/sqlPools/resume/action *Read Only*  
Microsoft.Synapse/sqlPools/write *Read Only*  
Microsoft.Synapse/workspaces/read *Read Only*

**Flexera Required Permissions:**

billing\_center\_viewer *Read Only*

---

**Azure Rule-Based Dimension From Resource Group Tags 2.0.1**

**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 2.0.1**

**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 3.0.2

### 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 3.0.2

### 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 3.0.2

### 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 3.0.2

### 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 3.0.2

### 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 3.0.2

### 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) 3.0.2

### 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 3.0.2

### Azure Resource Manager Required Permissions:

Microsoft.Resources/subscriptions/read *Read Only*

Microsoft.Sql/servers/read *Read Only*

### Flexera Required Permissions:

billing\_center\_viewer *Read Only*

---

## Azure SQL Servers Without Elastic Pools 3.0.2

### 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 3.0.2

### Azure Resource Manager Required Permissions:

Microsoft.Resources/subscriptions/read *Read Only*

Microsoft.Sql/servers/read *Read Only*

Microsoft.Sql/servers/vulnerabilityAssessments/read *Read Only*

### Flexera Required Permissions:

billing\_center\_viewer *Read Only*

---

## Azure Savings Plan Recommendations 3.1.3

### Azure Resource Manager Required Permissions:

Microsoft.CostManagement/benefitRecommendations/read *Read Only*

### Flexera Required Permissions:

billing\_center\_viewer *Read Only*

---

## Azure Savings Plan Utilization 0.1.3

### Azure Resource Manager Required Permissions:

Microsoft.Billing/billingAccounts/read *Read Only*

### Flexera Required Permissions:

billing\_center\_viewer *Read Only*

---

## Azure Savings Realized from Reservations 3.9.4

### Flexera Required Permissions:

billing\_center\_viewer *Read Only*

---

## Azure Schedule Instance 7.0.2

### 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 3.0.2

### 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 3.0.2

### 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 3.0.2

### 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 3.0.2

### Azure Resource Manager Required Permissions:

Microsoft.Storage/storageAccounts/read *Read Only*

### Flexera Required Permissions:

billing\_center\_viewer *Read Only*

---

## Azure Storage Accounts without Lifecycle Management Policies 4.0.3

### 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 3.0.2

### 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 3.0.3**

**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 3.0.2**

**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 3.0.2**

**Azure Resource Manager Required Permissions:**

Microsoft.Resources/subscriptions/read *Read Only*  
Microsoft.Security/securityContacts/read *Read Only*

**Flexera Required Permissions:**

billing\_center\_viewer *Read Only*

---

## **Azure Superseded Compute Instances 2.1.5**

**Azure Resource Manager Required Permissions:**

Microsoft.Compute/virtualMachines/read *Read Only*

**Azure Resource Manager Optional Permissions:**

Microsoft.Compute/virtualMachines/write *Write*

**Flexera Required Permissions:**

billing\_center\_viewer *Read Only*

---

## **Azure Table Storage Accounts Without Logging Enabled 3.0.2**

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

Microsoft.Storage/storageAccounts/read *Read Only*

### **Azure Storage Required Permissions:**

Storage Table Data Reader *Read Only*

### **Flexera Required Permissions:**

billing\_center\_viewer *Read Only*

---

## **Azure Tag Cardinality Report 3.2.3**

### **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 3.3.1**

### **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 1.1.3**

### **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 0.1.3

### Azure Resource Manager Required Permissions:

Microsoft.Web/serverfarms/read *Read Only*

Microsoft.Web/sites/read *Read Only*

### Azure Resource Manager Optional Permissions:

Microsoft.Web/serverfarms/delete *Write*

### Flexera Required Permissions:

billing\_center\_viewer *Read Only*

---

## Azure Unused Firewalls 0.2.4

### Azure Resource Manager Required Permissions:

Microsoft.Insights/metrics/read *Read Only*

Microsoft.Network/azureFirewalls/read *Read Only*

### Azure Resource Manager Optional Permissions:

Microsoft.Network/azureFirewalls/delete *Write*

### Flexera Required Permissions:

billing\_center\_viewer *Read Only*

---

## Azure Unused IP Addresses 7.3.3

### Azure Resource Manager Required Permissions:

Microsoft.Insights/eventtypes/values/read *Read Only*

Microsoft.Network/publicIPAddresses/read *Read Only*

### Azure Resource Manager Optional Permissions:

Microsoft.Network/publicIPAddresses/delete *Write*

### Flexera Required Permissions:

billing\_center\_viewer *Read Only*

---

## Azure Unused Load Balancers 0.1.4

### Azure Resource Manager Required Permissions:

Microsoft.Insights/metrics/read *Read Only*

Microsoft.Network/loadBalancers/read *Read Only*

### Azure Resource Manager Optional Permissions:

Microsoft.Network/loadBalancers/delete *Write*

### Flexera Required Permissions:

billing\_center\_viewer *Read Only*

---

## Azure Unused SQL Databases 5.4.5

### Azure Resource Manager Required Permissions:

Microsoft.Insights/metrics/read *Read Only*

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

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

### Azure Resource Manager Optional Permissions:

Microsoft.Sql/servers/databases/delete *Write*

### Flexera Required Permissions:

billing\_center\_viewer *Read Only*

---

## Azure Unused Virtual Network Gateways 0.1.2

### Azure Resource Manager Required Permissions:

Microsoft.Network/connections/read *Read Only*

Microsoft.Network/virtualNetworkGateways/read *Read Only*

### Azure Resource Manager Optional Permissions:

Microsoft.Network/virtualNetworkGateways/delete *Write*

### Flexera Required Permissions:

billing\_center\_viewer *Read Only*

---

## Azure Unused Volumes 8.2.4

### Azure Resource Manager Required Permissions:

Microsoft.Compute/disks/read *Read Only*

Microsoft.Insights/metrics/read *Read Only*

### Azure Resource Manager Optional Permissions:

Microsoft.Compute/disks/write *Write*

Microsoft.Compute/snapshots/write *Write*

Microsoft.Compute/virtualMachines/read *Write*

Microsoft.Compute/virtualMachines/write *Write*

### Flexera Required Permissions:

billing\_center\_viewer *Read Only*

---

## Azure Usage Report - Amount of Instance Memory Used 2.1.7

### Flexera Required Permissions:

billing\_center\_viewer *Read Only*

---

## Azure Usage Report - Instance Time Used 1.0.5

### Flexera Required Permissions:

billing\_center\_viewer *Read Only*

---

## Azure Usage Report - Number of Instance Hours Used 2.1.6

### Flexera Required Permissions:

billing\_center\_viewer *Read Only*

---

## Azure Usage Report - Number of Instance vCPUs Used 2.1.7

### Flexera Required Permissions:

billing\_center\_viewer *Read Only*

---

## Azure VMs Not Using Managed Disks 4.0.2

### Azure Resource Manager Required Permissions:

Microsoft.Compute/virtualMachines/read *Read Only*

### Flexera Required Permissions:

billing\_center\_viewer *Read Only*

---

## Azure Web Apps With Unoptimized Scaling 0.2.2

### 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 3.0.2

### Azure Resource Manager Required Permissions:

Microsoft.Web/sites/read *Read Only*

### Flexera Required Permissions:

billing\_center\_viewer *Read Only*

---

## Billing Center Access Report 3.1.3



**Flexera Required Permissions:**

billing\_center\_viewer *Read Only*

enterprise\_manager *Read Only*

---

**Budget Alerts** 3.4.1**Flexera Required Permissions:**

billing\_center\_viewer *Read Only*

---

**Budget vs Actual Spend Report** 2.5.4**Flexera Required Permissions:**

billing\_center\_viewer *Read Only*

budget\_viewer *Read Only*

---

**Cheaper Regions** 2.4.4**Flexera Required Permissions:**

billing\_center\_viewer *Read Only*

policy\_designer *Read Only*

policy\_manager *Read Only*

policy\_publisher *Read Only*

---

**Cloud Bill Processing Error Notification** 2.6.1**Flexera Required Permissions:**

ca\_user *Read Only*

csm\_bill\_upload\_admin *Read Only*

enterprise\_manager *Read Only*

observer *Read Only*

---

**Cloud Cost Anomaly Alerts** 3.8.1**Flexera Required Permissions:**

billing\_center\_viewer *Read Only*

policy\_manager *Read Only*

---

**Cloud Spend Forecast - Straight-Line** 4.0.2**Flexera Required Permissions:**

billing\_center\_viewer *Read Only*

---

## Cloud Spend Moving Average Report 4.0.2

### Flexera Required Permissions:

billing\_center\_viewer *Read Only*

---

## Common Bill Ingestion from AWS S3 Object Storage 0.2.1

### 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)

0.1.0

### 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 0.2.1

### 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) 0.1.0

### 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 0.1.1

### Flexera Optional Permissions:

manage\_organization *Read Only*

---

## Currency Conversion 5.0.3

### Flexera Required Permissions:

enterprise\_manager *Read Only*

---

## Email Cost Optimization Recommendations 0.6.2

### Flexera Required Permissions:

billing\_center\_viewer *Read Only*

---

## FinOps Dashboards 0.1.1

### Flexera Required Permissions:

csm\_dashboard\_admin *Read Only*

---

## Fixed Cost Common Bill Ingestion 0.2.2

### Flexera Required Permissions:

billing\_center\_viewer *Read Only*

csm\_bill\_upload\_admin *Read Only*

---

## Flexera Automation Disallowed Credentials 0.1.1

### Flexera Required Permissions:

credential\_viewer *Read Only*

### Flexera Optional Permissions:

iam\_admin *Write*

---

## Flexera Automation Expiring Credentials 0.1.1

### Flexera Required Permissions:

credential\_viewer *Read Only*

### Flexera Optional Permissions:

iam\_admin *Write*

---

## **Flexera Automation Outdated Applied Policies** 0.2.4

### **Flexera Required Permissions:**

policy\_viewer *Read Only*

### **Flexera Optional Permissions:**

policy\_manager *Write*

---

## **Flexera Billing Centers from Dimension Values** 0.1.2

### **Flexera Required Permissions:**

billing\_center\_admin *Read Only*

---

## **Flexera CCO Delete All Billing Centers** 1.1.2

### **Flexera Required Permissions:**

billing\_center\_admin *Read Only*

policy\_manager *Read Only*

---

## **Flexera FOCUS Report** 0.1.4

### **Flexera Required Permissions:**

billing\_center\_viewer *Read Only*

---

## **Flexera Onboarding** 0.1.2

### **Flexera Required Permissions:**

org\_owner *Read Only*

---

## **Flexera One API Event Report** 0.1.1

### **Flexera Required Permissions:**

iam\_admin *Read Only*

---

## **Flexera One User Access Report** 0.1.2

### **Flexera Required Permissions:**

iam\_admin *Read Only*

---

## **Flexera Users With Explicit Roles** 4.0.2

### **Flexera Required Permissions:**

iam\_admin *Read Only*

---

## GitHub Available Seats 3.0.2

### Flexera Required Permissions:

billing\_center\_viewer *Read Only*

### GitHub Required Permissions:

admin:org *Read Only*

---

## GitHub Repositories Without Admin Team 3.0.2

### Flexera Required Permissions:

billing\_center\_viewer *Read Only*

### GitHub Required Permissions:

admin:org *Read Only*

---

## GitHub Repository Branches Without Protection 3.0.2

### Flexera Required Permissions:

billing\_center\_viewer *Read Only*

### GitHub Required Permissions:

admin:org *Read Only*

---

## GitHub Undersized Repositories 3.0.2

### Flexera Required Permissions:

billing\_center\_viewer *Read Only*

### GitHub Required Permissions:

admin:org *Read Only*

---

## GitHub Unpermitted Outside Collaborators 3.0.2

### Flexera Required Permissions:

billing\_center\_viewer *Read Only*

### GitHub Required Permissions:

admin:org *Read Only*

---

## GitHub Unpermitted Repository Names 3.0.2

**Flexera Required Permissions:**

billing\_center\_viewer *Read Only*

**GitHub Required Permissions:**

admin:org *Read Only*

---

**GitHub Unpermitted Top-Level Teams** 3.0.2**Flexera Required Permissions:**

billing\_center\_viewer *Read Only*

**GitHub Required Permissions:**

admin:org *Read Only*

---

**Google Cheaper Regions** 1.0.2**Flexera Required Permissions:**

billing\_center\_viewer *Read Only*

---

**Google Cloud Run Anomaly Detection** 0.2.1**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** 0.2.1**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** 4.3.1**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** 3.1.1

**Flexera Required Permissions:**

billing\_center\_viewer *Read Only*

**Google Cloud Required Permissions:**

compute.commitments.get *Read Only*

resourcemanager.projects.get *Read Only*

---

**Google Credential** 0.1.2

**Flexera Required Permissions:**

billing\_center\_viewer *Read Only*

**Google Cloud Required Permissions:**

resourcemanager.projects.get *Read Only*

---

**Google Expiring Committed Use Discounts (CUD)** 3.1.1

**Flexera Required Permissions:**

billing\_center\_viewer *Read Only*

**Google Cloud Required Permissions:**

compute.commitments.get *Read Only*

resourcemanager.projects.get *Read Only*

---

**Google Idle Cloud SQL Instance Recommender** 4.1.4

**Flexera Required Permissions:**

billing\_center\_viewer *Read Only*

**Google Cloud Required Permissions:**

cloudsql.instances.list *Read Only*

recommender.cloudsqlIdleInstanceRecommendations.list *Read Only*

resourcemanager.projects.get *Read Only*

**Google Cloud Optional Permissions:**

cloudsql.instances.delete *Write*

cloudsql.instances.update *Write*

---

## Google Idle IP Address Recommender 4.3.1

### 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 4.3.1

### 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 0.2.1

### 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 Stopped VM Instances 4.1.1

### 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 0.1.1

### Flexera Required Permissions:

billing\_center\_viewer *Read Only*

### Google Cloud Required Permissions:

resourcemanager.projects.get *Read Only*

---

## Google Object Storage Optimization 3.0.5

### 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 5.2.1

### Flexera Required Permissions:

billing\_center\_viewer *Read Only*

### Google Cloud Required Permissions:

billing.accounts.get *Read Only*  
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 3.2.1

### 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 0.1.1

### 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 3.1.1**

**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 Recommender 0.2.1**

**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 Recommender 3.2.1

### 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.computeInstanceIdResourceRecommendations.list *Read Only*  
recommender.computeInstanceMachineTypeRecommendations.list *Read Only*

---

## Google Rule-Based Dimension From Project Labels 2.0.1

### 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 6.0.1

### 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 3.2.1

### 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*

---

## Hidden Policy Templates 0.1.2

### Flexera Required Permissions:

policy\_designer *Read Only*

policy\_manager *Read Only*

---

## ITAM Asset Report 0.1.1

### Flexera Required Permissions:

di\_viewer *Read Only*

policy\_viewer *Read Only*

---

## ITAM Expiring Licenses 2.4.4

### Flexera Required Permissions:

fnms\_user *Read Only*

---

## ITAM Ignored Recent Inventory Dates 2.4.3

## **Flexera Required Permissions:**

fnms\_user *Read Only*

---

## **ITAM Installed Application Report** 0.1.1

### **Flexera Required Permissions:**

di\_viewer *Read Only*

policy\_viewer *Read Only*

---

## **ITAM License Report** 0.1.1

### **Flexera Required Permissions:**

di\_viewer *Read Only*

policy\_viewer *Read Only*

---

## **ITAM Missing Active Machines** 2.4.3

### **Flexera Required Permissions:**

fnms\_user *Read Only*

---

## **ITAM Overused Licenses** 2.4.4

### **Flexera Required Permissions:**

fnms\_user *Read Only*

---

## **ITAM VMs Missing Host ID** 2.4.3

### **Flexera Required Permissions:**

fnms\_user *Read Only*

---

## **Kubecost Cluster Rightsizing Recommendation** 0.4.1

### **Flexera Required Permissions:**

billing\_center\_viewer *Read Only*

---

## **Kubecost Container Request Rightsizing Recommendations** 0.4.3

### **Flexera Required Permissions:**

billing\_center\_viewer *Read Only*

---

## **Kubernetes - Rightsizing Recommendations** 0.1.1

## **Flexera Required Permissions:**

policy\_viewer *Read Only*

---

## **Low Usage Report** 3.1.2

### **Flexera Required Permissions:**

billing\_center\_viewer *Read Only*

---

## **Master Org Cost Policy** 2.0.3

### **Flexera Required Permissions:**

billing\_center\_viewer *Read Only*

---

## **Master Org Cost Policy with Currency Conversion** 2.0.3

### **Flexera Required Permissions:**

billing\_center\_viewer *Read Only*

---

## **New Usage** 3.0.4

### **Flexera Required Permissions:**

billing\_center\_viewer *Read Only*

---

## **Office 365 Security Alerts** 3.0.2

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

SecurityEvents.Read.All *Read Only*

### **Flexera Required Permissions:**

billing\_center\_viewer *Read Only*

---

## **Okta Inactive Users** 3.0.2

### **Flexera Required Permissions:**

billing\_center\_viewer *Read Only*

### **Okta Required Permissions:**

READ\_ONLY\_ADMIN *Read Only*

---

## **Orgs and Clouds Vendor Accounts** 2.0.2

### **Flexera Required Permissions:**

enterprise\_manager *Read Only*

---

## **Policy Template Synchronization** 3.0.2

### **Flexera Required Permissions:**

policy\_designer *Read Only*

policy\_manager *Read Only*

---

## **Rule-Based Dimension From Custom Tags** 0.1.1

### **Flexera Required Permissions:**

billing\_center\_viewer *Read Only*

observer *Read Only*

rule\_based\_dimensions\_manager *Read Only*

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## **SaaS Manager - Deactivated Users** 3.1.3

### **Flexera Required Permissions:**

SaaS Manager: Viewer *Read Only*

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## **SaaS Manager - Deactivated Users for Integrated Applications** 3.1.3

### **Flexera Required Permissions:**

SaaS Manager: Viewer *Read Only*

---

## **SaaS Manager - Duplicate User Accounts** 3.1.3

### **Flexera Required Permissions:**

SaaS Manager: Viewer *Read Only*

---

## **SaaS Manager - Redundant Apps** 3.1.3

### **Flexera Required Permissions:**

SaaS Manager: Viewer *Read Only*

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## **SaaS Manager - Renewal Reminder** 3.2.3

### **Flexera Required Permissions:**

SaaS Manager: Viewer *Read Only*

---

## **SaaS Manager - SaaS App User Report by Category** 3.0.2



**Flexera Required Permissions:**

SaaS Manager: Viewer *Read Only*

---

**SaaS Manager - Suspicious Users 3.1.3****Flexera Required Permissions:**

SaaS Manager: Viewer *Read Only*

---

**SaaS Manager - Unsanctioned Applications with Existing Contract 3.2.3****Flexera Required Permissions:**

SaaS Manager: Viewer *Read Only*

---

**SaaS Manager - Unsanctioned Spend 3.1.3****Flexera Required Permissions:**

SaaS Manager: Viewer *Read Only*

---

**Schedule ITAM Report 0.2.1****Flexera Required Permissions:**

fnms\_user *Read Only*

---

**Scheduled Report 4.0.1****Flexera Required Permissions:**

billing\_center\_viewer *Read Only*

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**Scheduled Report for Unallocated Costs 0.3.2****Flexera Required Permissions:**

billing\_center\_viewer *Read Only*

---

**Scheduled Report with Markups and Markdowns 2.0.1****Flexera Required Permissions:**

billing\_center\_viewer *Read Only*

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**ServiceNow Inactive Approvers 3.0.2**

**Flexera Required Permissions:**

billing\_center\_viewer *Read Only*

**ServiceNow Required Permissions:**

user\_admin *Read Only*

---

**Spot Ocean - Common Bill Ingest** 0.1.1**Flexera Required Permissions:**

billing\_center\_viewer *Read Only*

csm\_bill\_upload\_admin *Read Only*

---

**Spot Security - Compliance Report** 0.1.1**Flexera Required Permissions:**

policy\_viewer *Read Only*

---

**Vendor Spend Commitment Forecast** 4.0.3**Flexera Required Permissions:**

billing\_center\_viewer *Read Only*

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