



# 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 3.0.6

### Azure Resource Manager Required Permissions:

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

Microsoft.ContainerService/managedClusters/read *Read Only*

### Flexera Required Permissions:

billing\_center\_viewer *Read Only*

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## AKS Node Pools Without Zero Autoscaling 3.1.6

### Azure Resource Manager Required Permissions:

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

Microsoft.ContainerService/managedClusters/read *Read Only*

### Flexera Required Permissions:

billing\_center\_viewer *Read Only*

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## AWS Account Credentials 0.1.8

### 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 3.0.5

### 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 4.4.4

### 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 1.0.4

### Flexera Required Permissions:

billing\_center\_viewer *Read Only*

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## AWS CloudTrail Not Enabled In All Regions 3.0.5

### 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 3.0.5

### 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 3.0.5

### 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 0.1.6

### 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 3.0.5

### 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 3.0.6

### 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**

3.0.5

**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** 0.2.3

**Flexera Required Permissions:**

billing\_center\_viewer *Read Only*

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

3.0.5

**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** 5.0.6

**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** 0.3.6

### **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** 0.2.6

### **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** 4.3.6

### **AWS Required Permissions:**

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

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## **AWS EKS Clusters Without Spot Instances** 0.1.6

### **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 4.0.6**

**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 3.0.4**

**Flexera Required Permissions:**

billing\_center\_viewer *Read Only*

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## **AWS Expiring Savings Plans 3.0.4**

**AWS Required Permissions:**

savingsplans:DescribeSavingsPlans *Read Only*

**Flexera Required Permissions:**

billing\_center\_viewer *Read Only*

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## **AWS GP3 Upgradeable Volumes 4.4.8**

**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 3.0.6**

**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 3.0.6****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 3.0.6****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 3.0.6****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 3.0.6****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 3.0.8

### 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 3.0.6

### 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 3.0.6

### 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 3.0.6

### 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 3.0.6

### 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 3.0.6****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 3.0.6****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 3.0.6****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 3.0.6****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 5.6.8

### 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 0.1.7

### 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 4.0.6

### 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 5.0.6

### 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 0.1.6

**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 5.1.6

**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 6.0.6

**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** 0.2.6

### **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** 0.3.7

### **Flexera Required Permissions:**

billing\_center\_viewer *Read Only*

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## **AWS Object Storage Optimization** 4.0.8

### **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** 8.4.9

### **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** 3.1.6

**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** 3.1.6

**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** 0.1.4

**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 3.0.5**

**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 5.1.4**

**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 4.2.8**

**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 3.0.6

### 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 4.0.6

### 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 3.0.6

### 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 4.0.5

### 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 3.0.4

### AWS Required Permissions:

ce:GetReservationCoverage *Read Only*

**Flexera Required Permissions:**

billing\_center\_viewer *Read Only*

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## **AWS Reserved Instances Recommendations** 3.6.6

**AWS Required Permissions:**

ce:GetReservationPurchaseRecommendation *Read Only*

**Flexera Required Permissions:**

billing\_center\_viewer *Read Only*

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## **AWS Reserved Instances Utilization** 3.0.4

**Flexera Required Permissions:**

billing\_center\_viewer *Read Only*

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## **AWS Resources Under Extended Support** 0.2.6

**Flexera Required Permissions:**

billing\_center\_viewer *Read Only*

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## **AWS Rightsize EBS Volumes** 0.3.8

**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** 5.4.4

**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 0.3.4

**AWS Required Permissions:**

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

**AWS Optional Permissions:**

elasticache:ModifyCacheCluster *Write*

**Flexera Required Permissions:**

billing\_center\_viewer *Read Only*

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## AWS Rightsize RDS Instances 5.8.5

**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 0.1.7

**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 3.0.3****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 3.0.7****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 3.0.6****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 4.0.6

### 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 0.1.5

### 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 3.0.6

### 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 3.0.6

### 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** 3.0.6

### **AWS Required Permissions:**

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

### **AWS Optional Permissions:**

s3:PutBucketLogging *Write*

### **Flexera Required Permissions:**

billing\_center\_viewer *Read Only*

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## **AWS S3 Incomplete Multi-Part Uploads** 0.1.4

### **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** 0.1.4

### **Flexera Required Permissions:**

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

---

## **AWS Savings Plan Recommendations** 3.3.7

### **AWS Required Permissions:**

ce:GetSavingsPlansPurchaseRecommendation *Read Only*

### **Flexera Required Permissions:**

billing\_center\_viewer *Read Only*

---

## **AWS Savings Plan Utilization** 4.0.5

### **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** 4.0.4

### **Flexera Required Permissions:**

billing\_center\_viewer *Read Only*

---

## **AWS Schedule Instance** 8.0.5

### **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** 4.0.6

### **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** 6.3.10

**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 3.0.1****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 3.1.7****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 5.0.6****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** 4.1.4**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** 5.4.4**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** 0.2.7**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 6.4.7

### 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 4.0.6

### 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 3.0.6

### 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 9.2.8

### 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** 0.2.7

**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** 8.3.8

**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** 1.1.3

**Flexera Required Permissions:**

billing\_center\_viewer *Read Only*

---

## AWS Usage Forecast - Number of Instance Hours Used 3.3.8

### Flexera Required Permissions:

billing\_center\_viewer *Read Only*

---

## AWS Usage Forecast - Number of Instance vCPUs Used 3.3.8

### Flexera Required Permissions:

billing\_center\_viewer *Read Only*

---

## AWS Usage Report - Instance Time Used 1.1.3

### Flexera Required Permissions:

billing\_center\_viewer *Read Only*

---

## AWS Usage Report - Number of Instance Hours Used 4.1.7

### Flexera Required Permissions:

billing\_center\_viewer *Read Only*

---

## AWS Usage Report - Number of Instance vCPUs Used 4.1.7

### Flexera Required Permissions:

billing\_center\_viewer *Read Only*

---

## AWS VPCs Without FlowLogs Enabled 4.0.6

### 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 4.0.5

### Flexera Required Permissions:

policy\_viewer *Read Only*

---

## Automation Reports 0.1.3

### Flexera Required Permissions:

policy\_viewer *Read Only*

### Flexera Optional Permissions:

policy\_manager *Write*

---

## Azure AHUB Utilization with Manual Entry 4.0.6

### Azure Resource Manager Required Permissions:

Microsoft.Compute/virtualMachines/read *Read Only*

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

### Flexera Required Permissions:

billing\_center\_viewer *Read Only*

---

## Azure Advisor Carbon Reduction Recommendations 0.1.5

### Azure Resource Manager Required Permissions:

Microsoft.Advisor/recommendations/read *Read Only*

### Flexera Required Permissions:

billing\_center\_viewer *Read Only*

---

## Azure Advisor Compute Instances Recommendations 0.1.5

### Azure Resource Manager Required Permissions:

Microsoft.Advisor/recommendations/read *Read Only*

Microsoft.Compute/virtualMachines/read *Read Only*

### Azure Resource Manager Optional Permissions:

Microsoft.Compute/virtualMachines/write *Write*

### Flexera Required Permissions:

billing\_center\_viewer *Read Only*

---

## Azure Blob Storage Accounts Without Logging Enabled 3.0.5

### Azure Resource Manager Required Permissions:

Microsoft.Storage/storageAccounts/read *Read Only*

### Azure Storage Required Permissions:

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

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

**Flexera Required Permissions:**

billing\_center\_viewer *Read Only*

---

**Azure Blob Storage Accounts Without Soft Delete Enabled 3.0.5****Azure Resource Manager Required Permissions:**

Microsoft.Storage/storageAccounts/read *Read Only*

**Flexera Required Permissions:**

billing\_center\_viewer *Read Only*

---

**Azure Blob Storage Optimization 4.0.8****Azure Resource Manager Required Permissions:**

Microsoft.Storage/storageAccounts/read *Read Only*

**Azure Storage Required Permissions:**

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

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

**Azure Storage Optional Permissions:**

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

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

**Flexera Required Permissions:**

billing\_center\_viewer *Read Only*

---

**Azure Bring-Your-Own-License (BYOL) Report 0.3.6****Flexera Required Permissions:**

billing\_center\_viewer *Read Only*

---

**Azure Cheaper Regions 1.0.4****Flexera Required Permissions:**

billing\_center\_viewer *Read Only*

---

**Azure China Common Bill Ingestion 2.0.5****Azure China Enterprise Agreement Required Permissions:**

Enterprise Agreement *Read Only*

**Flexera Required Permissions:**

billing\_center\_viewer *Read Only*

---

## Azure Compute Instances Time Powered Off Report 0.2.5

### Azure Resource Manager Required Permissions:

Microsoft.Compute/virtualMachines/read *Read Only*

### Azure Resource Manager Optional Permissions:

Microsoft.Compute/virtualMachines/delete *Write*

Microsoft.Compute/virtualMachines/powerOff/action *Write*

Microsoft.Compute/virtualMachines/write *Write*

### Flexera Required Permissions:

billing\_center\_viewer *Read Only*

---

## Azure Credential 0.1.5

### Azure Resource Manager Required Permissions:

Microsoft.Resources/subscriptions/read *Read Only*

### Flexera Required Permissions:

billing\_center\_viewer *Read Only*

---

## Azure Data Lake Optimization 0.1.4

### Azure Resource Manager Required Permissions:

Microsoft.Storage/storageAccounts/read *Read Only*

### Azure Storage Required Permissions:

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

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

### Azure Storage Optional Permissions:

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

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

### Flexera Required Permissions:

billing\_center\_viewer *Read Only*

---

## Azure Databricks Rightsize Compute Instances 0.5.0

### Azure Resource Manager Required Permissions:

Microsoft.Compute/skus/read *Read Only*

Microsoft.Compute/virtualMachines/read *Read Only*

Microsoft.Insights/metrics/read *Read Only*

### Flexera Required Permissions:

billing\_center\_viewer *Read Only*

---

## Azure Disallowed Regions 4.1.6

### Azure Resource Manager Required Permissions:

Microsoft.Compute/virtualMachines/read *Read Only*

### Azure Resource Manager Optional Permissions:

Microsoft.Compute/virtualMachines/write *Write*

### Flexera Required Permissions:

billing\_center\_viewer *Read Only*

---

## Azure Expiring Certificates 4.0.6

### Azure Resource Manager Required Permissions:

Microsoft.Web/certificates/read *Read Only*

### Azure Resource Manager Optional Permissions:

Microsoft.Web/certificates/delete *Write*

### Flexera Required Permissions:

billing\_center\_viewer *Read Only*

---

## Azure Expiring Reserved Instances 3.0.4

### Flexera Required Permissions:

billing\_center\_viewer *Read Only*

---

## Azure Expiring Savings Plans 0.1.5

### Azure Resource Manager Required Permissions:

Microsoft.Billing/billingAccounts/read *Read Only*

### Flexera Required Permissions:

billing\_center\_viewer *Read Only*

---

## Azure Guest Users 3.0.5

### Microsoft Graph Required Permissions:

Directory.Read.All *Read Only*

User.Read.All *Read Only*

### Flexera Required Permissions:

billing\_center\_viewer *Read Only*

---

## Azure Hybrid Use Benefit for Linux Server 5.1.7

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

Microsoft.Compute/virtualMachines/read *Read Only*

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

Microsoft.Compute/virtualMachines/write *Write*

### **Flexera Required Permissions:**

billing\_center\_viewer *Read Only*

---

## **Azure Hybrid Use Benefit for SQL 4.3.4**

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

Microsoft.Sql/managedInstances/read *Read Only*

Microsoft.Sql/servers/read *Read Only*

Microsoft.SqlVirtualMachine/sqlVirtualMachines/read *Read Only*

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

Microsoft.Sql/managedInstances/write *Write*

Microsoft.Sql/servers/write *Write*

Microsoft.SqlVirtualMachine/sqlVirtualMachines/write *Write*

### **Flexera Required Permissions:**

billing\_center\_viewer *Read Only*

---

## **Azure Hybrid Use Benefit for Windows Server 5.2.7**

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

Microsoft.Compute/virtualMachines/read *Read Only*

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

Microsoft.Compute/virtualMachines/write *Write*

### **Flexera Required Permissions:**

billing\_center\_viewer *Read Only*

---

## **Azure Idle Compute Instances 5.5.7**

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

Microsoft.Compute/virtualMachines/read *Read Only*

Microsoft.Insights/metrics/read *Read Only*

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

Microsoft.Compute/virtualMachines/write *Write*

### **Flexera Required Permissions:**

billing\_center\_viewer *Read Only*

---

## Azure Instances not running FlexNet Inventory Agent 4.2.4

### Azure Resource Manager Required Permissions:

Microsoft.Compute/virtualMachines/read *Read Only*

---

## Azure Long Running Instances 6.1.6

### Azure Resource Manager Required Permissions:

Microsoft.Compute/virtualMachines/read *Read Only*

### Azure Resource Manager Optional Permissions:

Microsoft.Compute/virtualMachines/write *Write*

### Flexera Required Permissions:

billing\_center\_viewer *Read Only*

---

## Azure Long Stopped Compute Instances 6.0.4

### Azure Resource Manager Required Permissions:

Microsoft.Compute/disks/read *Read Only*

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

Microsoft.Compute/virtualMachines/read *Read Only*

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

Microsoft.Resources/subscriptions/read *Read Only*

### Azure Resource Manager Optional Permissions:

Microsoft.Compute/virtualMachines/delete *Write*

### Flexera Required Permissions:

billing\_center\_viewer *Read Only*

---

## Azure Missing Subscriptions 0.1.5

### Azure Resource Manager Required Permissions:

Microsoft.Resources/subscriptions/read *Read Only*

### Flexera Required Permissions:

billing\_center\_viewer *Read Only*

---

## Azure MySQL Flexible Servers Without Secure TLS 3.0.5

### Azure Resource Manager Required Permissions:

Microsoft.DBforMySQL/flexibleServers/configurations/read *Read Only*

Microsoft.DBforMySQL/flexibleServers/read *Read Only*

Microsoft.Resources/subscriptions/read *Read Only*



**Flexera Required Permissions:**

billing\_center\_viewer *Read Only*

---

**Azure MySQL Servers Without Enforced SSL 3.0.5****Azure Resource Manager Required Permissions:**

Microsoft.DBforMySQL/servers/read *Read Only*

Microsoft.Resources/subscriptions/read *Read Only*

**Flexera Required Permissions:**

billing\_center\_viewer *Read Only*

---

**Azure Network Security Groups With Inbound RDP Open 3.0.5****Azure Resource Manager Required Permissions:**

Microsoft.Network/networkSecurityGroups/read *Read Only*

**Flexera Required Permissions:**

billing\_center\_viewer *Read Only*

---

**Azure Network Security Groups With Inbound SSH Open 3.0.5****Azure Resource Manager Required Permissions:**

Microsoft.Network/networkSecurityGroups/read *Read Only*

**Flexera Required Permissions:**

billing\_center\_viewer *Read Only*

---

**Azure New Marketplace Products 0.5.3****Flexera Required Permissions:**

billing\_center\_viewer *Read Only*

---

**Azure Old Snapshots 7.2.6****Azure Resource Manager Required Permissions:**

Microsoft.Compute/snapshots/read *Read Only*

**Azure Resource Manager Optional Permissions:**

Microsoft.Compute/snapshots/delete *Write*

**Flexera Required Permissions:**

billing\_center\_viewer *Read Only*

---

## Azure Overutilized Compute Instances 0.1.4

### Azure Resource Manager Required Permissions:

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

Microsoft.Compute/skus/read *Read Only*

Microsoft.Compute/virtualMachines/read *Read Only*

Microsoft.Insights/metrics/read *Read Only*

### Azure Resource Manager Optional Permissions:

Microsoft.Compute/virtualMachines/write *Write*

### Flexera Required Permissions:

billing\_center\_viewer *Read Only*

---

## Azure Policy Audit 3.0.6

### Azure Resource Manager Required Permissions:

Microsoft.Authorization/policyAssignments/read *Read Only*

Microsoft.Authorization/policyDefinitions/read *Read Only*

### Flexera Required Permissions:

billing\_center\_viewer *Read Only*

---

## Azure PostgreSQL Servers With Bad Log Settings 3.0.5

### Azure Resource Manager Required Permissions:

Microsoft.DBForPostgreSql/servers/read *Read Only*

Microsoft.Resources/subscriptions/read *Read Only*

### Flexera Required Permissions:

billing\_center\_viewer *Read Only*

---

## Azure PostgreSQL Servers With Insufficient Log Retention 3.0.5

### Azure Resource Manager Required Permissions:

Microsoft.DBForPostgreSql/servers/read *Read Only*

Microsoft.Resources/subscriptions/read *Read Only*

### Flexera Required Permissions:

billing\_center\_viewer *Read Only*

---

## Azure PostgreSQL Servers Without Connection Throttling 3.0.5

### Azure Resource Manager Required Permissions:

Microsoft.DBForPostgreSql/servers/read *Read Only*

Microsoft.Resources/subscriptions/read *Read Only*

**Flexera Required Permissions:**

billing\_center\_viewer *Read Only*

---

**Azure PostgreSQL Servers Without Infrastructure Encryption 3.0.5****Azure Resource Manager Required Permissions:**

Microsoft.DBForPostgreSql/servers/read *Read Only*

Microsoft.Resources/subscriptions/read *Read Only*

**Flexera Required Permissions:**

billing\_center\_viewer *Read Only*

---

**Azure Publicly-Accessible Blob Containers 3.0.6****Azure Resource Manager Required Permissions:**

Microsoft.Storage/storageAccounts/read *Read Only*

**Azure Storage Required Permissions:**

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

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

**Flexera Required Permissions:**

billing\_center\_viewer *Read Only*

---

**Azure Publicly-Accessible SQL Managed Instances 3.0.5****Azure Resource Manager Required Permissions:**

Microsoft.Resources/subscriptions/read *Read Only*

Microsoft.Sql/managedInstances/read *Read Only*

**Azure Resource Manager Optional Permissions:**

Microsoft.Sql/managedInstances/delete *Write*

Microsoft.Sql/managedInstances/update *Write*

**Flexera Required Permissions:**

billing\_center\_viewer *Read Only*

---

**Azure Queue Storage Accounts Without Logging Enabled 3.0.5****Azure Resource Manager Required Permissions:**

Microsoft.Storage/storageAccounts/read *Read Only*

**Azure Storage Required Permissions:**

Storage Queue Data Reader *Read Only*

**Flexera Required Permissions:**

billing\_center\_viewer *Read Only*

---

## **Azure Regulatory Compliance** 3.0.5

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

Microsoft.Security/regulatoryComplianceStandards/read *Read Only*

### **Flexera Required Permissions:**

billing\_center\_viewer *Read Only*

---

## **Azure Reserved Instances Recommendations** 4.2.4

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

Microsoft.Consumption/reservationRecommendations/read *Read Only*

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

Microsoft.Billing/billingAccounts/read *Read Only*

### **Flexera Required Permissions:**

billing\_center\_viewer *Read Only*

---

## **Azure Reserved Instances Utilization** 3.1.5

### **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** 1.0.4

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

Microsoft.Capacity/reservations/read *Read Only*

---

## **Azure Rightsize Compute Instances** 6.2.4

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

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

Microsoft.Compute/skus/read *Read Only*

Microsoft.Compute/virtualMachines/read *Read Only*

Microsoft.Insights/metrics/read *Read Only*

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

Microsoft.Compute/virtualMachines/delete *Write*

Microsoft.Compute/virtualMachines/powerOff/action *Write*

Microsoft.Compute/virtualMachines/start/action *Write*  
Microsoft.Compute/virtualMachines/write *Write*

**Flexera Required Permissions:**

billing\_center\_viewer *Read Only*

---

**Azure Rightsize Managed Disks** 2.6.4

**Azure Resource Manager Required Permissions:**

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

**Flexera Required Permissions:**

billing\_center\_viewer *Read Only*

---

**Azure Rightsize MySQL Flexible Servers** 0.2.6

**Azure Resource Manager Required Permissions:**

Microsoft.DBforMySQL/flexibleServers/read *Read Only*  
Microsoft.Insights/metrics/read *Read Only*

**Azure Resource Manager Optional Permissions:**

Microsoft.DBforMySQL/flexibleServers/delete *Write*  
Microsoft.DBforMySQL/flexibleServers/update *Write*

**Flexera Required Permissions:**

billing\_center\_viewer *Read Only*

---

**Azure Rightsize MySQL Single Servers** 0.2.6

**Azure Resource Manager Required Permissions:**

Microsoft.DBforMySQL/servers/read *Read Only*  
Microsoft.Insights/metrics/read *Read Only*

**Azure Resource Manager Optional Permissions:**

Microsoft.DBforMySQL/servers/delete *Write*  
Microsoft.DBforMySQL/servers/update *Write*

**Flexera Required Permissions:**

billing\_center\_viewer *Read Only*

---

**Azure Rightsize NetApp Resources** 2.0.9

**Azure Resource Manager Required Permissions:**

Microsoft.Insights/metrics/read *Read Only*

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

**Azure Resource Manager Optional Permissions:**

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

**Flexera Required Permissions:**

billing\_center\_viewer *Read Only*

---

**Azure Rightsize SQL Database Storage 0.1.7**

**Azure Resource Manager Required Permissions:**

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

**Flexera Required Permissions:**

billing\_center\_viewer *Read Only*

---

**Azure Rightsize SQL Databases 6.0.5**

**Azure Resource Manager Required Permissions:**

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

**Azure Resource Manager Optional Permissions:**

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

**Flexera Required Permissions:**

billing\_center\_viewer *Read Only*

---

**Azure Rightsize SQL Managed Instance Storage 0.2.7**

**Azure Resource Manager Required Permissions:**

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

**Azure Resource Manager Optional Permissions:**

Microsoft.Sql/managedInstances/update *Write*

**Flexera Required Permissions:**

billing\_center\_viewer *Read Only*

---

## Azure Rightsize SQL Managed Instances 0.3.6

### Azure Resource Manager Required Permissions:

Microsoft.Insights/metrics/read *Read Only*

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

Microsoft.Sql/managedInstances/read *Read Only*

### Azure Resource Manager Optional Permissions:

Microsoft.Sql/managedInstances/delete *Write*

Microsoft.Sql/managedInstances/update *Write*

### Flexera Required Permissions:

billing\_center\_viewer *Read Only*

---

## Azure Rightsize Synapse SQL Pools 0.1.6

### Azure Resource Manager Required Permissions:

Microsoft.Insights/metrics/read *Read Only*

Microsoft.Synapse/sqlPools/delete *Read Only*

Microsoft.Synapse/sqlPools/pause/action *Read Only*

Microsoft.Synapse/sqlPools/read *Read Only*

Microsoft.Synapse/sqlPools/resume/action *Read Only*

Microsoft.Synapse/sqlPools/write *Read Only*

Microsoft.Synapse/workspaces/read *Read Only*

### Flexera Required Permissions:

billing\_center\_viewer *Read Only*

---

## Azure Rule-Based Dimension From Resource Group Tags 2.0.3

### 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 2.0.3

### 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 3.0.5**

**Azure Resource Manager Required Permissions:**

Microsoft.Resources/subscriptions/read *Read Only*  
Microsoft.Sql/servers/databases/read *Read Only*  
Microsoft.Sql/servers/databases/transparentDataEncryption/read *Read Only*  
Microsoft.Sql/servers/read *Read Only*

**Flexera Required Permissions:**

billing\_center\_viewer *Read Only*

---

**Azure SQL Servers Vulnerability Assessment Does Not Notify Admins 3.0.5**

**Azure Resource Manager Required Permissions:**

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

**Flexera Required Permissions:**

billing\_center\_viewer *Read Only*

---

**Azure SQL Servers Vulnerability Assessment Without Email Notifications 3.0.5**

**Azure Resource Manager Required Permissions:**

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

**Flexera Required Permissions:**

billing\_center\_viewer *Read Only*

---

**Azure SQL Servers Vulnerability Assessment Without Periodic Scans 3.0.5**



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

Microsoft.Resources/subscriptions/read *Read Only*

Microsoft.Sql/servers/read *Read Only*

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

### **Flexera Required Permissions:**

billing\_center\_viewer *Read Only*

---

## **Azure SQL Servers With Insufficient Auditing Retention 3.0.5**

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

Microsoft.Resources/subscriptions/read *Read Only*

Microsoft.Sql/servers/read *Read Only*

### **Flexera Required Permissions:**

billing\_center\_viewer *Read Only*

---

## **Azure SQL Servers Without Active Directory Admin 3.0.5**

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

Microsoft.Resources/subscriptions/read *Read Only*

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

Microsoft.Sql/servers/read *Read Only*

### **Flexera Required Permissions:**

billing\_center\_viewer *Read Only*

---

## **Azure SQL Servers Without Advanced Threat Protection (ATP) 3.0.5**

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

Microsoft.Resources/subscriptions/read *Read Only*

Microsoft.Sql/servers/read *Read Only*

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

### **Flexera Required Permissions:**

billing\_center\_viewer *Read Only*

---

## **Azure SQL Servers Without Auditing Enabled 3.0.5**

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

Microsoft.Resources/subscriptions/read *Read Only*

Microsoft.Sql/servers/read *Read Only*

### **Flexera Required Permissions:**

billing\_center\_viewer *Read Only*

---

## Azure SQL Servers Without Elastic Pools 3.0.5

### Azure Resource Manager Required Permissions:

Microsoft.Sql/servers/read *Read Only*

### Flexera Required Permissions:

billing\_center\_viewer *Read Only*

---

## Azure SQL Servers Without Vulnerability Assessment (VA) Enabled 3.0.5

### Azure Resource Manager Required Permissions:

Microsoft.Resources/subscriptions/read *Read Only*

Microsoft.Sql/servers/read *Read Only*

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

### Flexera Required Permissions:

billing\_center\_viewer *Read Only*

---

## Azure Savings Plan Recommendations 3.1.6

### Azure Resource Manager Required Permissions:

Microsoft.CostManagement/benefitRecommendations/read *Read Only*

### Flexera Required Permissions:

billing\_center\_viewer *Read Only*

---

## Azure Savings Plan Utilization 0.1.5

### Azure Resource Manager Required Permissions:

Microsoft.Billing/billingAccounts/read *Read Only*

### Flexera Required Permissions:

billing\_center\_viewer *Read Only*

---

## Azure Savings Realized from Reservations 3.9.6

### Flexera Required Permissions:

billing\_center\_viewer *Read Only*

---

## Azure Schedule Instance 7.0.7

### Azure Resource Manager Required Permissions:

Microsoft.Compute/virtualMachines/deallocate/action *Write*

Microsoft.Compute/virtualMachines/delete *Write*  
Microsoft.Compute/virtualMachines/read *Read Only*  
Microsoft.Compute/virtualMachines/start/action *Write*  
Microsoft.Compute/virtualMachines/write *Write*

**Flexera Required Permissions:**

billing\_center\_viewer *Read Only*

---

**Azure Storage Accounts Allowing Default Network Access 3.0.5**

**Azure Resource Manager Required Permissions:**

Microsoft.Storage/storageAccounts/read *Read Only*

**Flexera Required Permissions:**

billing\_center\_viewer *Read Only*

---

**Azure Storage Accounts Without Secure TLS 3.0.5**

**Azure Resource Manager Required Permissions:**

Microsoft.Storage/storageAccounts/read *Read Only*

**Flexera Required Permissions:**

billing\_center\_viewer *Read Only*

---

**Azure Storage Accounts Without Secure Transfer 3.0.5**

**Azure Resource Manager Required Permissions:**

Microsoft.Storage/storageAccounts/read *Read Only*

**Flexera Required Permissions:**

billing\_center\_viewer *Read Only*

---

**Azure Storage Accounts Without Trusted Microsoft Services Access 3.0.5**

**Azure Resource Manager Required Permissions:**

Microsoft.Storage/storageAccounts/read *Read Only*

**Flexera Required Permissions:**

billing\_center\_viewer *Read Only*

---

**Azure Storage Accounts without Lifecycle Management Policies 4.0.6**

**Azure Resource Manager Required Permissions:**

Microsoft.Storage/storageAccounts/read *Read Only*

**Flexera Required Permissions:**

billing\_center\_viewer *Read Only*

---

**Azure Subscriptions Without High Severity Alerts 3.0.4**

**Azure Resource Manager Required Permissions:**

Microsoft.Resources/subscriptions/read *Read Only*

Microsoft.Security/securityContacts/read *Read Only*

**Flexera Required Permissions:**

billing\_center\_viewer *Read Only*

---

**Azure Subscriptions Without Log Analytics Auto-Provisioning 3.0.5**

**Azure Resource Manager Required Permissions:**

Microsoft.Resources/subscriptions/read *Read Only*

Microsoft.Security/autoProvisioningSettings/read *Read Only*

**Flexera Required Permissions:**

billing\_center\_viewer *Read Only*

---

**Azure Subscriptions Without Owner Security Alerts 3.0.5**

**Azure Resource Manager Required Permissions:**

Microsoft.Resources/subscriptions/read *Read Only*

Microsoft.Security/securityContacts/read *Read Only*

**Flexera Required Permissions:**

billing\_center\_viewer *Read Only*

---

**Azure Subscriptions Without Security Contact Email 3.0.5**

**Azure Resource Manager Required Permissions:**

Microsoft.Resources/subscriptions/read *Read Only*

Microsoft.Security/securityContacts/read *Read Only*

**Flexera Required Permissions:**

billing\_center\_viewer *Read Only*

---

**Azure Superseded Compute Instances 3.0.2**

**Azure Resource Manager Required Permissions:**

Microsoft.Compute/virtualMachines/read *Read Only*

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

Microsoft.Compute/virtualMachines/write *Write*

### **Flexera Required Permissions:**

billing\_center\_viewer *Read Only*

---

## **Azure Table Storage Accounts Without Logging Enabled 3.0.5**

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

Microsoft.Storage/storageAccounts/read *Read Only*

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

Storage Table Data Reader *Read Only*

### **Flexera Required Permissions:**

billing\_center\_viewer *Read Only*

---

## **Azure Tag Cardinality Report 3.2.6**

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

Microsoft.Resources/resourceGroups/read *Read Only*

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

Microsoft.Resources/subscriptions/read *Read Only*

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

Microsoft.Resources/tags/read *Read Only*

### **Flexera Required Permissions:**

billing\_center\_viewer *Read Only*

---

## **Azure Untagged Resources 3.3.4**

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

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

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

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

Microsoft.Resources/tags/read *Read Only*

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

Microsoft.Resources/tags/write *Write*

### **Flexera Required Permissions:**

billing\_center\_viewer *Read Only*

---

## **Azure Untagged Virtual Machines 1.1.6**

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

Microsoft.Compute/virtualMachines/read *Read Only*  
Microsoft.Resources/tags/read *Read Only*

**Azure Resource Manager Optional Permissions:**

Microsoft.Compute/virtualMachines/write *Write*  
Microsoft.Resources/tags/write *Write*

**Flexera Required Permissions:**

billing\_center\_viewer *Read Only*

---

**Azure Unused App Service Plans** 0.1.6

**Azure Resource Manager Required Permissions:**

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

**Azure Resource Manager Optional Permissions:**

Microsoft.Web/serverfarms/delete *Write*

**Flexera Required Permissions:**

billing\_center\_viewer *Read Only*

---

**Azure Unused Firewalls** 0.2.7

**Azure Resource Manager Required Permissions:**

Microsoft.Insights/metrics/read *Read Only*  
Microsoft.Network/azureFirewalls/read *Read Only*

**Azure Resource Manager Optional Permissions:**

Microsoft.Network/azureFirewalls/delete *Write*

**Flexera Required Permissions:**

billing\_center\_viewer *Read Only*

---

**Azure Unused IP Addresses** 7.3.6

**Azure Resource Manager Required Permissions:**

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

**Azure Resource Manager Optional Permissions:**

Microsoft.Network/publicIPAddresses/delete *Write*

**Flexera Required Permissions:**

billing\_center\_viewer *Read Only*

---

## Azure Unused Load Balancers 0.1.7

### Azure Resource Manager Required Permissions:

Microsoft.Insights/metrics/read *Read Only*

Microsoft.Network/loadBalancers/read *Read Only*

### Azure Resource Manager Optional Permissions:

Microsoft.Network/loadBalancers/delete *Write*

### Flexera Required Permissions:

billing\_center\_viewer *Read Only*

---

## Azure Unused SQL Databases 5.4.7

### Azure Resource Manager Required Permissions:

Microsoft.Insights/metrics/read *Read Only*

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

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

### Azure Resource Manager Optional Permissions:

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

### Flexera Required Permissions:

billing\_center\_viewer *Read Only*

---

## Azure Unused Storage Accounts 0.1.3

### Azure Resource Manager Required Permissions:

Microsoft.Insights/metrics/read *Read Only*

Microsoft.Resources/subscriptions/read *Read Only*

Microsoft.Storage/storageAccounts/read *Read Only*

### Azure Resource Manager Optional Permissions:

Microsoft.Storage/storageAccounts/delete *Write*

### Flexera Required Permissions:

billing\_center\_viewer *Read Only*

---

## Azure Unused Virtual Network Gateways 0.1.5

### Azure Resource Manager Required Permissions:

Microsoft.Network/connections/read *Read Only*

Microsoft.Network/virtualNetworkGateways/read *Read Only*

### Azure Resource Manager Optional Permissions:

Microsoft.Network/virtualNetworkGateways/delete *Write*

**Flexera Required Permissions:**

billing\_center\_viewer *Read Only*

---

**Azure Unused Volumes 8.2.7****Azure Resource Manager Required Permissions:**

Microsoft.Compute/disks/read *Read Only*

Microsoft.Insights/metrics/read *Read Only*

**Azure Resource Manager Optional Permissions:**

Microsoft.Compute/disks/write *Write*

Microsoft.Compute/snapshots/write *Write*

Microsoft.Compute/virtualMachines/read *Write*

Microsoft.Compute/virtualMachines/write *Write*

**Flexera Required Permissions:**

billing\_center\_viewer *Read Only*

---

**Azure Usage Report - Amount of Instance Memory Used 2.1.8****Flexera Required Permissions:**

billing\_center\_viewer *Read Only*

---

**Azure Usage Report - Instance Time Used 1.0.8****Flexera Required Permissions:**

billing\_center\_viewer *Read Only*

---

**Azure Usage Report - Number of Instance Hours Used 2.1.7****Flexera Required Permissions:**

billing\_center\_viewer *Read Only*

---

**Azure Usage Report - Number of Instance vCPUs Used 2.1.8****Flexera Required Permissions:**

billing\_center\_viewer *Read Only*

---

**Azure VMs Not Using Managed Disks 4.0.5****Azure Resource Manager Required Permissions:**

Microsoft.Compute/virtualMachines/read *Read Only*



**Flexera Required Permissions:**

billing\_center\_viewer *Read Only*

---

**Azure Web Apps With Unoptimized Scaling** 0.2.5**Azure Resource Manager Required Permissions:**

Microsoft.Insights/autoscalesettings/read *Read Only*

Microsoft.Web/sites/read *Read Only*

**Flexera Required Permissions:**

billing\_center\_viewer *Read Only*

---

**Azure Web Apps Without Secure TLS** 3.0.5**Azure Resource Manager Required Permissions:**

Microsoft.Web/sites/read *Read Only*

**Flexera Required Permissions:**

billing\_center\_viewer *Read Only*

---

**Billing Center Access Report** 3.1.5**Flexera Required Permissions:**

billing\_center\_viewer *Read Only*

enterprise\_manager *Read Only*

---

**Budget Alerts** 3.4.2**Flexera Required Permissions:**

billing\_center\_viewer *Read Only*

---

**Budget vs Actual Spend Report** 2.5.6**Flexera Required Permissions:**

billing\_center\_viewer *Read Only*

budget\_viewer *Read Only*

---

**Cheaper Regions** 2.4.6**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 2.6.3

### Flexera Required Permissions:

ca\_user *Read Only*  
csm\_bill\_upload\_admin *Read Only*  
enterprise\_manager *Read Only*  
observer *Read Only*

---

## Cloud Cost Anomaly Alerts 4.0.1

### Flexera Required Permissions:

billing\_center\_viewer *Read Only*  
policy\_manager *Read Only*

---

## Cloud Spend Forecast - Straight-Line 4.0.4

### Flexera Required Permissions:

billing\_center\_viewer *Read Only*

---

## Cloud Spend Moving Average Report 4.0.4

### Flexera Required Permissions:

billing\_center\_viewer *Read Only*

---

## Common Bill Ingestion from AWS S3 Object Storage 0.2.3

### 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) 0.1.1

### 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** 0.2.3

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

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

### **Flexera Required Permissions:**

billing\_center\_viewer *Read Only*  
csm\_bill\_upload\_admin *Read Only*

---

## **Common Bill Ingestion from Azure Blob Storage (Iterating)** 0.1.1

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

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

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

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

### **Flexera Required Permissions:**

billing\_center\_viewer *Read Only*  
csm\_bill\_upload\_admin *Read Only*

---

## **Configure Custom Branding** 0.1.3

### **Flexera Optional Permissions:**

manage\_organization *Read Only*

---

## **Currency Conversion** 5.0.4

### **Flexera Required Permissions:**

enterprise\_manager *Read Only*

---

## **Dynamic Dashboards** 0.1.0

### **Flexera Required Permissions:**

billing\_center\_viewer *Read Only*  
csm\_dashboard\_admin *Read Only*

---

## **Email Cost Optimization Recommendations** 0.6.3

### **Flexera Required Permissions:**

billing\_center\_viewer *Read Only*

---

## **FinOps Dashboards** 0.1.2

### **Flexera Required Permissions:**

csm\_dashboard\_admin *Read Only*

---

## **Fixed Cost Common Bill Ingestion** 0.3.1

### **Flexera Required Permissions:**

billing\_center\_viewer *Read Only*

csm\_bill\_upload\_admin *Read Only*

---

## **Flexera Automation Disallowed Credentials** 0.1.3

### **Flexera Required Permissions:**

credential\_viewer *Read Only*

### **Flexera Optional Permissions:**

iam\_admin *Write*

---

## **Flexera Automation Expiring Credentials** 0.1.3

### **Flexera Required Permissions:**

credential\_viewer *Read Only*

### **Flexera Optional Permissions:**

iam\_admin *Write*

---

## **Flexera Automation Outdated Applied Policies** 0.2.6

### **Flexera Required Permissions:**

policy\_viewer *Read Only*

### **Flexera Optional Permissions:**

policy\_manager *Write*

---

## **Flexera Billing Centers from Dimension Values** 0.1.6

### **Flexera Required Permissions:**

billing\_center\_admin *Read Only*

---

## **Flexera CCO Delete All Billing Centers** 1.1.4

**Flexera Required Permissions:**billing\_center\_admin *Read Only*policy\_manager *Read Only*

---

**Flexera FOCUS Report** 0.1.6**Flexera Required Permissions:**billing\_center\_viewer *Read Only*

---

**Flexera Onboarding** 0.1.3**Flexera Required Permissions:**org\_owner *Read Only*

---

**Flexera One API Event Report** 0.1.3**Flexera Required Permissions:**iam\_admin *Read Only*

---

**Flexera One User Access Report** 0.1.4**Flexera Required Permissions:**iam\_admin *Read Only*

---

**Flexera Users With Explicit Roles** 4.0.4**Flexera Required Permissions:**iam\_admin *Read Only*

---

**GitHub Available Seats** 3.0.4**Flexera Required Permissions:**billing\_center\_viewer *Read Only***GitHub Required Permissions:**admin:org *Read Only*

---

**GitHub Repositories Without Admin Team** 3.0.4**Flexera Required Permissions:**billing\_center\_viewer *Read Only*

## GitHub Required Permissions:

admin:org *Read Only*

---

## GitHub Repository Branches Without Protection 3.0.4

### Flexera Required Permissions:

billing\_center\_viewer *Read Only*

### GitHub Required Permissions:

admin:org *Read Only*

---

## GitHub Undersized Repositories 3.0.4

### Flexera Required Permissions:

billing\_center\_viewer *Read Only*

### GitHub Required Permissions:

admin:org *Read Only*

---

## GitHub Unpermitted Outside Collaborators 3.0.4

### Flexera Required Permissions:

billing\_center\_viewer *Read Only*

### GitHub Required Permissions:

admin:org *Read Only*

---

## GitHub Unpermitted Repository Names 3.0.4

### Flexera Required Permissions:

billing\_center\_viewer *Read Only*

### GitHub Required Permissions:

admin:org *Read Only*

---

## GitHub Unpermitted Top-Level Teams 3.0.4

### Flexera Required Permissions:

billing\_center\_viewer *Read Only*

### GitHub Required Permissions:

admin:org *Read Only*

---

## Google Cheaper Regions 1.0.4

**Flexera Required Permissions:**

billing\_center\_viewer *Read Only*

---

**Google Cloud Run Anomaly Detection 0.2.2****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 0.2.4****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 4.3.4****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 3.1.4****Flexera Required Permissions:**

billing\_center\_viewer *Read Only*

**Google Cloud Required Permissions:**

compute.commitments.get *Read Only*

resourcemanager.projects.get *Read Only*

---

**Google Credential 0.1.5**

**Flexera Required Permissions:**

billing\_center\_viewer *Read Only*

**Google Cloud Required Permissions:**

resourcemanager.projects.get *Read Only*

---

**Google Expiring Committed Use Discounts (CUD) 3.1.4****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 4.1.7****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 4.3.4****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 4.3.4****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 0.2.4

### 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 4.1.4

### 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 0.1.3

### Flexera Required Permissions:

billing\_center\_viewer *Read Only*

### Google Cloud Required Permissions:

resourceManager.projects.get *Read Only*

---

## Google Object Storage Optimization 3.0.8

### 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 5.2.4

### 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 3.2.4**

**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 0.1.4**

**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 3.1.4**

**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.usagCommitmentRecommendations.list *Read Only*

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## Google Rightsize Cloud SQL Recommender 0.2.4

### 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 3.2.4

### 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 2.0.3

### 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 6.0.5

### 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 3.2.4

### 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*

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## Hidden Policy Templates 0.1.4

### Flexera Required Permissions:

policy\_designer *Read Only*  
policy\_manager *Read Only*

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## ITAM Asset Report 0.1.3

### Flexera Required Permissions:

di\_viewer *Read Only*  
policy\_viewer *Read Only*

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## ITAM Expiring Licenses 2.4.5

### Flexera Required Permissions:

fnms\_user *Read Only*

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## ITAM Ignored Recent Inventory Dates 2.4.4

### Flexera Required Permissions:

fnms\_user *Read Only*

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## ITAM Installed Application Report 0.1.3

### Flexera Required Permissions:

di\_viewer *Read Only*  
policy\_viewer *Read Only*

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## ITAM License Report 0.1.3

### Flexera Required Permissions:

di\_viewer *Read Only*  
policy\_viewer *Read Only*

---

## ITAM Missing Active Machines 2.4.4

### Flexera Required Permissions:

fnms\_user *Read Only*

---

## ITAM Overused Licenses 2.4.5

### Flexera Required Permissions:

fnms\_user *Read Only*

---

## Kubecost Cluster Rightsizing Recommendation 0.4.3

### Flexera Required Permissions:

billing\_center\_viewer *Read Only*

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## Kubecost Container Request Rightsizing Recommendations 0.4.5

### Flexera Required Permissions:

billing\_center\_viewer *Read Only*

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## Kubernetes - Rightsizing Recommendations 0.2.1

### Flexera Required Permissions:

policy\_viewer *Read Only*

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## Low Usage Report 3.1.4

### Flexera Required Permissions:

billing\_center\_viewer *Read Only*

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## Master Org Cost Policy 2.0.4

### Flexera Required Permissions:

billing\_center\_viewer *Read Only*

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## Master Org Cost Policy with Currency Conversion 2.0.4

### Flexera Required Permissions:

billing\_center\_viewer *Read Only*

---

## New Usage 3.0.6

**Flexera Required Permissions:**

billing\_center\_viewer *Read Only*

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**Office 365 Security Alerts** 3.0.4**Microsoft Graph Required Permissions:**

SecurityEvents.Read.All *Read Only*

**Flexera Required Permissions:**

billing\_center\_viewer *Read Only*

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**Okta Inactive Users** 3.0.4**Flexera Required Permissions:**

billing\_center\_viewer *Read Only*

**Okta Required Permissions:**

READ\_ONLY\_ADMIN *Read Only*

---

**Orgs and Clouds Vendor Accounts** 2.0.4**Flexera Required Permissions:**

enterprise\_manager *Read Only*

---

**Percentage Cost Common Bill Ingestion** 0.1.1**Flexera Required Permissions:**

billing\_center\_viewer *Read Only*

csm\_bill\_upload\_admin *Read Only*

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**Policy Template Synchronization** 3.0.4**Flexera Required Permissions:**

policy\_designer *Read Only*

policy\_manager *Read Only*

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**Rule-Based Dimension From Custom Tags** 0.1.3**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** 3.1.5

### **Flexera Required Permissions:**

SaaS Manager: Viewer *Read Only*

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## **SaaS Manager - Deactivated Users for Integrated Applications** 3.1.5

### **Flexera Required Permissions:**

SaaS Manager: Viewer *Read Only*

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## **SaaS Manager - Duplicate User Accounts** 3.1.5

### **Flexera Required Permissions:**

SaaS Manager: Viewer *Read Only*

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## **SaaS Manager - Redundant Apps** 3.1.5

### **Flexera Required Permissions:**

SaaS Manager: Viewer *Read Only*

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## **SaaS Manager - Renewal Reminder** 3.2.5

### **Flexera Required Permissions:**

SaaS Manager: Viewer *Read Only*

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## **SaaS Manager - SaaS App User Report by Category** 3.0.4

### **Flexera Required Permissions:**

SaaS Manager: Viewer *Read Only*

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## **SaaS Manager - Suspicious Users** 3.1.5

### **Flexera Required Permissions:**

SaaS Manager: Viewer *Read Only*

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## **SaaS Manager - Unsanctioned Applications with Existing Contract** 3.2.5

### **Flexera Required Permissions:**

SaaS Manager: Viewer *Read Only*

---

## SaaS Manager - Unsanctioned Spend 3.1.5

### Flexera Required Permissions:

SaaS Manager: Viewer *Read Only*

---

## Schedule ITAM Report 0.2.3

### Flexera Required Permissions:

fnms\_user *Read Only*

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## Scheduled Report 4.0.4

### Flexera Required Permissions:

billing\_center\_viewer *Read Only*

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## Scheduled Report for Unallocated Costs 0.3.3

### Flexera Required Permissions:

billing\_center\_viewer *Read Only*

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## Scheduled Report with Markups and Markdowns 2.0.2

### Flexera Required Permissions:

billing\_center\_viewer *Read Only*

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## ServiceNow Inactive Approvers 3.0.4

### Flexera Required Permissions:

billing\_center\_viewer *Read Only*

### ServiceNow Required Permissions:

user\_admin *Read Only*

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## Spot Ocean - Common Bill Ingest 0.2.1

### Flexera Required Permissions:

billing\_center\_viewer *Read Only*

csm\_bill\_upload\_admin *Read Only*

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## Spot Security - Compliance Report 0.1.3

### Flexera Required Permissions:

policy\_viewer *Read Only*

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**Vendor Spend Commitment Forecast** 4.0.5

**Flexera Required Permissions:**

billing\_center\_viewer *Read Only*

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