flexera™

Policy Catalog Master Permissions List

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

- Required permissions may change as policy templates in the catalog are updated. An up-to-date version of this PDF file is [available in the Flexera Policy Template Github Repository](#).
- *Required* permissions are required for the policy template in question to work correctly; *optional* permissions enable additional functionality.
- Permissions with a green *Read Only* label are read-only, while those with a red *Write* label can potentially make changes to your cloud environment.

AKS Node Pools Without Autoscaling 3.1.1

Azure Resource Manager Required Permissions:
Microsoft.ContainerService/managedClusters/agentPools/read *Read Only*
Microsoft.ContainerService/managedClusters/read *Read Only*

Flexera Required Permissions:
billing_center_viewer *Read Only*

AKS Node Pools Without Zero Autoscaling 3.2.1

Azure Resource Manager Required Permissions:
Microsoft.ContainerService/managedClusters/agentPools/read *Read Only*
Microsoft.ContainerService/managedClusters/read *Read Only*

Flexera Required Permissions:
billing_center_viewer *Read Only*

AWS Account Credentials 0.1.9

AWS Required Permissions:
sts:GetCallerIdentity *Read Only*

Flexera Required Permissions:
billing_center_viewer *Read Only*

AWS Accounts Missing Service Control Policies 3.1.1

AWS Required Permissions:
organizations:ListAccounts *Read Only*
organizations:ListPolicies *Read Only*
organizations:ListPoliciesForTarget *Read Only*

Flexera Required Permissions:
billing_center_viewer *Read Only*

AWS Burstable EC2 Instances 4.5.2

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

AWS Optional Permissions:
ec2:DescribeInstanceStatus *Write*
ec2:ModifyInstanceAttribute *Write*
ec2:StartInstances *Write*
ec2:StopInstances *Write*

Flexera Required Permissions:
billing_center_viewer *Read Only*

AWS Cheaper Regions 1.0.5

Flexera Required Permissions:
billing_center_viewer *Read Only*

AWS CloudTrail Not Enabled In All Regions 3.0.7

AWS Required Permissions:
cloudtrail:DescribeTrails *Read Only*
cloudtrail:GetEventSelectors *Read Only*
cloudtrail:GetTrailStatus *Read Only*
sts:GetCallerIdentity *Read Only*

Flexera Required Permissions:
billing_center_viewer *Read Only*

AWS CloudTrail S3 Buckets Without Access Logging 3.0.7

AWS Required Permissions:
cloudtrail:DescribeTrails *Read Only*
s3:GetBucketLocation *Read Only*
s3:GetBucketLogging *Read Only*
sts:GetCallerIdentity *Read Only*

Flexera Required Permissions:
billing_center_viewer *Read Only*

AWS CloudTrails Not Integrated With CloudWatch 3.0.7

AWS Required Permissions:
cloudtrail:DescribeTrails *Read Only*
cloudtrail:GetTrailStatus *Read Only*
sts:GetCallerIdentity *Read Only*

Flexera Required Permissions:
billing_center_viewer *Read Only*

AWS CloudTrails With Read Logging Enabled 0.2.2

AWS Required Permissions:
cloudtrail:DescribeTrails *Read Only*
cloudtrail:GetEventSelectors *Read Only*
sts:GetCallerIdentity *Read Only*

AWS Optional Permissions:
cloudtrail:PutEventSelectors *Write*

Flexera Required Permissions:
billing_center_viewer *Read Only*

AWS CloudTrails Without Encrypted Logs 3.0.7

AWS Required Permissions:
cloudtrail:DescribeTrails *Read Only*
sts:GetCallerIdentity *Read Only*

Flexera Required Permissions:
billing_center_viewer *Read Only*

AWS CloudTrails Without Log File Validation Enabled 3.0.8

AWS Required Permissions:

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

Flexera Required Permissions:
billing_center_viewer *Read Only*

AWS CloudTrails Without Object-level Events Logging Enabled
3.0.7

AWS Required Permissions:
cloudtrail:DescribeTrails *Read Only*
cloudtrail:GetEventSelectors *Read Only*
sts:GetCallerIdentity *Read Only*

Flexera Required Permissions:
billing_center_viewer *Read Only*

AWS Cost Report - EC2 Instance Cost Per Hour 0.2.4

Flexera Required Permissions:
billing_center_viewer *Read Only*

AWS Customer Managed Keys (CMKs) Without Rotation Enabled
3.0.7

AWS Required Permissions:
ec2:DescribeRegions *Read Only*
kms:GetKeyRotationStatus *Read Only*
kms:ListKeys *Read Only*
sts:GetCallerIdentity *Read Only*

Flexera Required Permissions:
billing_center_viewer *Read Only*

AWS Disallowed Regions 5.0.8

AWS Required Permissions:
ec2:DescribeInstances *Read Only*
ec2:DescribeRegions *Read Only*
sts:GetCallerIdentity *Read Only*

AWS Optional Permissions:
ec2:StopInstances *Write*
ec2:TerminateInstances *Write*

Flexera Required Permissions:

billing_center_viewer *Read Only*

AWS EC2 Compute Optimizer Recommendations 0.4.1

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

AWS Optional Permissions:
ec2:ModifyInstanceAttribute *Write*
ec2:StartInstances *Write*
ec2:StopInstances *Write*

Flexera Required Permissions:
billing_center_viewer *Read Only*

AWS EC2 Instances Time Stopped Report 0.3.2

AWS Required Permissions:
ec2:DescribeInstances *Read Only*
ec2:DescribeRegions *Read Only*
sts:GetCallerIdentity *Read Only*

AWS Optional Permissions:
ec2:DescribeInstanceStatus *Write*
ec2:StopInstances *Write*
ec2:TerminateInstances *Write*

Flexera Required Permissions:
billing_center_viewer *Read Only*

AWS EC2 Instances not running FlexNet Inventory Agent 4.4.1

AWS Required Permissions:
ec2:DescribeInstances *Read Only*
ec2:DescribeRegions *Read Only*

AWS EKS Clusters Without Spot Instances 0.2.3

AWS Required Permissions:
ec2:DescribeRegions *Read Only*
eks:DescribeCluster *Read Only*
eks:DescribeNodegroup *Read Only*

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

Flexera Required Permissions:
billing_center_viewer *Read Only*

AWS Elastic Load Balancers With Unencrypted Listeners 4.0.8

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

Flexera Required Permissions:
billing_center_viewer *Read Only*

AWS Expiring Reserved Instances 3.1.1

Flexera Required Permissions:
billing_center_viewer *Read Only*

AWS Expiring Savings Plans 3.1.1

AWS Required Permissions:
savingsplans:DescribeSavingsPlans *Read Only*

Flexera Required Permissions:
billing_center_viewer *Read Only*

AWS IAM Account Missing Support Role 3.0.8

AWS Required Permissions:
iam:ListEntitiesForPolicy *Read Only*
iam:ListPolicies *Read Only*
sts:GetCallerIdentity *Read Only*

Flexera Required Permissions:
billing_center_viewer *Read Only*

AWS IAM Attached Admin Policies 3.0.8

AWS Required Permissions:
iam:GetPolicyVersion *Read Only*
iam:ListPolicies *Read Only*
sts:GetCallerIdentity *Read Only*

Flexera Required Permissions:
billing_center_viewer *Read Only*

AWS IAM Expired SSL/TLS Certificates 3.0.8

AWS Required Permissions:
iam:ListServerCertificates *Read Only*
sts:GetCallerIdentity *Read Only*

Flexera Required Permissions:
billing_center_viewer *Read Only*

AWS IAM Insufficient Required Password Length 3.0.8

AWS Required Permissions:
iam:GetAccountPasswordPolicy *Read Only*
sts:GetCallerIdentity *Read Only*

Flexera Required Permissions:
billing_center_viewer *Read Only*

AWS IAM Password Policy Not Restricting Password Reuse 3.0.8

AWS Required Permissions:
iam:GetAccountPasswordPolicy *Read Only*
sts:GetCallerIdentity *Read Only*

Flexera Required Permissions:
billing_center_viewer *Read Only*

AWS IAM Role Audit 3.0.11

AWS Required Permissions:
iam:ListRoleTags *Read Only*
iam:ListRoles *Read Only*
sts:GetCallerIdentity *Read Only*

Flexera Required Permissions:
billing_center_viewer *Read Only*

AWS IAM Root Account Access Keys 3.0.8

AWS Required Permissions:
iam:GetAccountSummary *Read Only*
sts:GetCallerIdentity *Read Only*

Flexera Required Permissions:
billing_center_viewer *Read Only*

AWS IAM Root User Account Without Hardware MFA 3.0.8

AWS Required Permissions:
iam:GetAccountSummary *Read Only*
iam:ListVirtualMFADevices *Read Only*
sts:GetCallerIdentity *Read Only*

Flexera Required Permissions:
billing_center_viewer *Read Only*

AWS IAM Root User Account Without MFA 3.0.8

AWS Required Permissions:
iam:GetAccountSummary *Read Only*
iam:ListVirtualMFADevices *Read Only*
sts:GetCallerIdentity *Read Only*

Flexera Required Permissions:
billing_center_viewer *Read Only*

AWS IAM Root User Doing Everyday Tasks 3.0.8

AWS Required Permissions:
iam:GenerateCredentialReport *Read Only*
iam:GetCredentialReport *Read Only*
sts:GetCallerIdentity *Read Only*

Flexera Required Permissions:
billing_center_viewer *Read Only*

AWS IAM User Accounts Without MFA 3.0.8

AWS Required Permissions:
iam:GenerateCredentialReport *Read Only*
iam:GetCredentialReport *Read Only*
sts:GetCallerIdentity *Read Only*

Flexera Required Permissions:
billing_center_viewer *Read Only*

AWS IAM Users With Directly-Attached Policies 3.0.8

AWS Required Permissions:
iam:ListAttachedUserPolicies *Read Only*
iam:ListUserPolicies *Read Only*
iam:ListUsers *Read Only*
sts:GetCallerIdentity *Read Only*

Flexera Required Permissions:
billing_center_viewer *Read Only*

AWS IAM Users With Multiple Active Access Keys 3.0.8

AWS Required Permissions:
iam:ListAccessKeys *Read Only*
iam:ListUsers *Read Only*
sts:GetCallerIdentity *Read Only*

Flexera Required Permissions:
billing_center_viewer *Read Only*

AWS IAM Users With Old Access Keys 3.0.8

AWS Required Permissions:
iam:GenerateCredentialReport *Read Only*
iam:GetCredentialReport *Read Only*
sts:GetCallerIdentity *Read Only*

Flexera Required Permissions:
billing_center_viewer *Read Only*

AWS Idle NAT Gateways 0.3.4

AWS Required Permissions:
ec2:DescribeNatGateways *Read Only*
ec2:DescribeRegions *Read Only*
sts:GetCallerIdentity *Read Only*

AWS Optional Permissions:
ec2:DeleteNatGateway *Write*

Flexera Required Permissions:
billing_center_viewer *Read Only*

AWS Internet-Accessible Elastic Load Balancers 4.0.8

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

AWS Optional Permissions:
elasticloadbalancing:DeleteLoadBalancer *Write*

Flexera Required Permissions:
billing_center_viewer *Read Only*

AWS Lambda Functions With High Error Rate 5.1.3

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

Flexera Required Permissions:
billing_center_viewer *Read Only*

AWS Lambda Functions Without Provisioned Concurrency 0.2.3

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

Flexera Required Permissions:
billing_center_viewer *Read Only*

AWS Long Running Instances 5.2.3

AWS Required Permissions:
ec2:DescribeInstances *Read Only*

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

AWS Optional Permissions:
ec2:DescribeInstanceStatus *Write*
ec2:StopInstances *Write*
ec2:TerminateInstances *Write*

Flexera Required Permissions:
billing_center_viewer *Read Only*

AWS Long Stopped EC2 Instances 6.1.2

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

AWS Optional Permissions:
ec2:DescribeInstanceStatus *Write*
ec2:TerminateInstances *Write*

Flexera Required Permissions:
billing_center_viewer *Read Only*

AWS Missing Regions 0.2.7

AWS Required Permissions:
ec2:DescribeInstances *Read Only*
ec2:DescribeRegions *Read Only*
sts:GetCallerIdentity *Read Only*

Flexera Required Permissions:
billing_center_viewer *Read Only*

AWS New Marketplace Products 0.4.1

Flexera Required Permissions:
billing_center_viewer *Read Only*

AWS Object Storage Optimization 4.0.10

AWS Required Permissions:

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

AWS Optional Permissions:
s3:DeleteObject *Write*
s3:PutObject *Write*

Flexera Required Permissions:
billing_center_viewer *Read Only*

AWS Old Snapshots 8.6.4

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

AWS Optional Permissions:
ec2:DeleteSnapshot *Write*
ec2:DeregisterImage *Write*
rds:DeleteDBClusterSnapshot *Write*
rds:DeleteDBSnapshot *Write*

Flexera Required Permissions:
billing_center_viewer *Read Only*

AWS Open S3 Buckets 3.1.9

AWS Required Permissions:
s3:GetBucketAcl *Read Only*
s3:GetBucketLocation *Read Only*
s3:ListAllMyBuckets *Read Only*
sts:GetCallerIdentity *Read Only*

Flexera Required Permissions:
billing_center_viewer *Read Only*

AWS Oversized S3 Buckets 4.0.1

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

Flexera Required Permissions:
billing_center_viewer *Read Only*

AWS Overutilized EC2 Instances 0.2.3

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

AWS Optional Permissions:
ec2:DescribeInstanceStatus *Write*
ec2:ModifyInstanceAttribute *Write*
ec2:StartInstances *Write*
ec2:StopInstances *Write*

Flexera Required Permissions:
billing_center_viewer *Read Only*

AWS Publicly Accessible CloudTrail S3 Buckets 3.0.7

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

Flexera Required Permissions:
billing_center_viewer *Read Only*

AWS Publicly Accessible RDS Instances 5.1.6

AWS Required Permissions:
ec2:DescribeRegions *Read Only*
rds:DescribeDBInstances *Read Only*
rds:ListTagsForResource *Read Only*
sts:GetCallerIdentity *Read Only*

AWS Optional Permissions:
rds:DeleteDBInstance *Write*
rds:ModifyDBInstance *Write*

Flexera Required Permissions:
billing_center_viewer *Read Only*

AWS RDS Instances With Unapproved Backup Settings 3.1.2

AWS Required Permissions:
ec2:DescribeRegions *Read Only*
rds:DescribeDBInstances *Read Only*
rds:ListTagsForResource *Read Only*
sts:GetCallerIdentity *Read Only*

Flexera Required Permissions:
billing_center_viewer *Read Only*

AWS Regions Without Access Analyzer Enabled 4.0.8

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

Flexera Required Permissions:
billing_center_viewer *Read Only*

AWS Regions Without Config Fully Enabled 3.0.8

AWS Required Permissions:
config:DescribeConfigurationRecorderStatus *Read Only*
ec2:DescribeRegions *Read Only*
sts:GetCallerIdentity *Read Only*

Flexera Required Permissions:
billing_center_viewer *Read Only*

AWS Regions Without Default EBS Encryption 4.0.7

AWS Required Permissions:
ec2:DescribeRegions *Read Only*
ec2:GetEbsEncryptionByDefault *Read Only*
sts:GetCallerIdentity *Read Only*

Flexera Required Permissions:
billing_center_viewer *Read Only*

AWS Reserved Instances Coverage 3.0.5

AWS Required Permissions:
ce:GetReservationCoverage *Read Only*

Flexera Required Permissions:
billing_center_viewer *Read Only*

AWS Reserved Instances Recommendations 3.7.2

AWS Required Permissions:
ce:GetReservationPurchaseRecommendation *Read Only*

Flexera Required Permissions:
billing_center_viewer *Read Only*

AWS Reserved Instances Utilization 3.1.1

Flexera Required Permissions:
billing_center_viewer *Read Only*

AWS Resources Under Extended Support 0.3.2

Flexera Required Permissions:
billing_center_viewer *Read Only*

AWS Rightsize EBS Volumes 0.5.4

AWS Required Permissions:
ec2:DescribeRegions *Read Only*
ec2:DescribeVolumes *Read Only*
pricing:GetProducts *Read Only*

AWS Optional Permissions:
ec2:ModifyVolume *Write*

Flexera Required Permissions:

billing_center_viewer *Read Only*

AWS Rightsize EC2 Instances 5.6.5

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

AWS Optional Permissions:
ec2:DescribeInstanceStatus *Write*
ec2:ModifyInstanceAttribute *Write*
ec2:StartInstances *Write*
ec2:StopInstances *Write*
ec2:TerminateInstances *Write*

Flexera Required Permissions:
billing_center_viewer *Read Only*

AWS Rightsize ElastiCache 0.5.5

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

AWS Optional Permissions:
elasticache:ModifyCacheCluster *Write*

Flexera Required Permissions:
billing_center_viewer *Read Only*

AWS Rightsize RDS Instances 5.10.4

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

sts:GetCallerIdentity *Read Only*

AWS Optional Permissions:
rds:DeleteDBInstance *Write*
rds:ModifyDBInstance *Write*

Flexera Required Permissions:
billing_center_viewer *Read Only*

AWS Rightsize Redshift 0.2.4

AWS Required Permissions:
cloudwatch:GetMetricData *Read Only*
ec2:DescribeRegions *Read Only*
redshift:DescribeClusters *Read Only*
sts:GetCallerIdentity *Read Only*

AWS Optional Permissions:
redshift:ModifyCluster *Write*

Flexera Required Permissions:
billing_center_viewer *Read Only*

AWS Rule-Based Dimension From Account Tags 3.1.1

Flexera Required Permissions:
billing_center_viewer *Read Only*
observer *Read Only*
rule_based_dimensions_manager *Read Only*

AWS S3 Buckets Accepting HTTP Requests 3.0.9

AWS Required Permissions:
s3:GetBucketLocation *Read Only*
s3:GetBucketPolicy *Read Only*
s3:GetBucketTagging *Read Only*
s3:ListAllMyBuckets *Read Only*
sts:GetCallerIdentity *Read Only*

Flexera Required Permissions:
billing_center_viewer *Read Only*

AWS S3 Buckets Without Default Encryption Configuration 3.0.8

AWS Required Permissions:
s3:GetBucketLocation *Read Only*

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

AWS Optional Permissions:
s3:DeleteBucket *Write*
s3:PutEncryptionConfiguration *Write*

Flexera Required Permissions:
billing_center_viewer *Read Only*

AWS S3 Buckets Without Intelligent Tiering 4.2.3

AWS Required Permissions:
s3:GetBucketLocation *Read Only*
s3:GetBucketTagging *Read Only*
s3:GetIntelligentTieringConfiguration *Read Only*
s3:ListAllMyBuckets *Read Only*
sts:GetCallerIdentity *Read Only*

AWS Optional Permissions:
s3:PutLifecycleConfiguration *Write*

Flexera Required Permissions:
billing_center_viewer *Read Only*

AWS S3 Buckets Without Lifecycle Configuration 0.2.2

AWS Required Permissions:
s3:GetBucketLocation *Read Only*
s3:GetBucketTagging *Read Only*
s3:GetLifecycleConfiguration *Read Only*
s3:ListAllMyBuckets *Read Only*
sts:GetCallerIdentity *Read Only*

Flexera Required Permissions:
billing_center_viewer *Read Only*

AWS S3 Buckets Without MFA Delete Enabled 3.0.8

AWS Required Permissions:
s3:GetBucketLocation *Read Only*
s3:GetBucketTagging *Read Only*
s3:GetBucketVersioning *Read Only*
s3:ListAllMyBuckets *Read Only*
sts:GetCallerIdentity *Read Only*

Flexera Required Permissions:
billing_center_viewer *Read Only*

AWS S3 Buckets Without Public Access Blocked 3.0.8

AWS Required Permissions:
s3:GetBucketLocation *Read Only*
s3:GetBucketPublicAccessBlock *Read Only*
s3:GetBucketTagging *Read Only*
s3:ListAllMyBuckets *Read Only*
sts:GetCallerIdentity *Read Only*

Flexera Required Permissions:
billing_center_viewer *Read Only*

AWS S3 Buckets Without Server Access Logging 3.0.8

AWS Required Permissions:
s3:GetBucketLocation *Read Only*
s3:GetBucketLogging *Read Only*
s3:GetBucketTagging *Read Only*
s3:ListAllMyBuckets *Read Only*
sts:GetCallerIdentity *Read Only*

AWS Optional Permissions:
s3:PutBucketLogging *Write*

Flexera Required Permissions:
billing_center_viewer *Read Only*

AWS S3 Incomplete Multi-Part Uploads 0.2.2

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

AWS Optional Permissions:
s3:AbortMultipartUpload *Write*

Flexera Required Permissions:
billing_center_viewer *Read Only*

AWS S3 Usage Type Rule-Based Dimension 0.1.5

Flexera Required Permissions:
billing_center_viewer *Read Only*
observer *Read Only*
rule_based_dimensions_manager *Read Only*

AWS Savings Plan Purchase Analysis 0.1.0

AWS Required Permissions:
ce:GetCommitmentPurchaseAnalysis *Read Only*
ce:ListCommitmentPurchaseAnalyses *Read Only*
ce:StartCommitmentPurchaseAnalysis *Write*
sts:GetCallerIdentity *Read Only*

Flexera Required Permissions:
billing_center_viewer *Read Only*

AWS Savings Plan Recommendations 3.4.5

AWS Required Permissions:
ce:GetSavingsPlansPurchaseRecommendation *Read Only*

Flexera Required Permissions:
billing_center_viewer *Read Only*

AWS Savings Plan Utilization 4.1.1

AWS Required Permissions:
ce:GetSavingsPlansUtilization *Read Only*
savingsplans:DescribeSavingsPlans *Read Only*

Flexera Required Permissions:
billing_center_viewer *Read Only*

AWS Savings Realized From Rate Reduction Purchases 4.0.7

Flexera Required Permissions:
billing_center_viewer *Read Only*

AWS Schedule Instance 8.0.8

AWS Required Permissions:
ec2:CreateTags *Write*

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

Flexera Required Permissions:
billing_center_viewer *Read Only*

AWS Scheduled EC2 Events 4.1.3

AWS Required Permissions:
ec2:DescribeInstanceStatus *Read Only*
ec2:DescribeInstances *Read Only*
ec2:DescribeRegions *Read Only*
sts:GetCallerIdentity *Read Only*

Flexera Required Permissions:
billing_center_viewer *Read Only*

AWS Superseded EBS Volumes 6.5.4

AWS Required Permissions:
ec2:DescribeRegions *Read Only*
ec2:DescribeVolumes *Read Only*
pricing:GetProducts *Read Only*
sts:GetCallerIdentity *Read Only*

AWS Optional Permissions:
ec2:ModifyVolume *Write*

Flexera Required Permissions:
billing_center_viewer *Read Only*

AWS Superseded EC2 Instances 3.2.4

AWS Required Permissions:
ec2:DescribeInstances *Read Only*
ec2:DescribeRegions *Read Only*
ec2:DescribeTags *Read Only*
sts:GetCallerIdentity *Read Only*

AWS Optional Permissions:
ec2:DescribeInstanceStatus *Write*

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

Flexera Required Permissions:
billing_center_viewer *Read Only*

AWS Tag Cardinality Report 3.2.1

AWS Required Permissions:
ec2:DescribeRegions *Read Only*
organizations:ListAccounts *Read Only*
organizations:ListTagsForResource *Read Only*
tag:GetResources *Read Only*

Flexera Required Permissions:
billing_center_viewer *Read Only*

AWS Unencrypted EBS Volumes 5.0.8

AWS Required Permissions:
ec2:DescribeRegions *Read Only*
ec2:DescribeVolumes *Read Only*
sts:GetCallerIdentity *Read Only*

Flexera Required Permissions:
billing_center_viewer *Read Only*

AWS Unencrypted RDS Instances 4.1.6

AWS Required Permissions:
ec2:DescribeRegions *Read Only*
rds:DescribeDBInstances *Read Only*
rds:ListTagsForResource *Read Only*
sts:GetCallerIdentity *Read Only*

AWS Optional Permissions:
rds:DeleteDBInstance *Write*

Flexera Required Permissions:
billing_center_viewer *Read Only*

AWS Untagged Resources 5.5.2

AWS Required Permissions:
ec2:DescribeRegions *Read Only*

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

AWS Optional Permissions:
organizations:TagResource *Write*
tag:TagResources *Write*

Flexera Required Permissions:
billing_center_viewer *Read Only*

AWS Unused Application Load Balancers 0.4.4

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

AWS Optional Permissions:
elasticloadbalancing:DeleteLoadBalancer *Write*

Flexera Required Permissions:
billing_center_viewer *Read Only*

AWS Unused Classic Load Balancers 6.5.3

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

AWS Optional Permissions:
elasticloadbalancing:DeleteLoadBalancer *Write*

Flexera Required Permissions:
billing_center_viewer *Read Only*

AWS Unused ECS Clusters 4.2.3

AWS Required Permissions:
ec2:DescribeRegions *Read Only*
ecs:DescribeClusters *Read Only*

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

AWS Optional Permissions:
ecs:DeleteCluster *Write*

Flexera Required Permissions:
billing_center_viewer *Read Only*

AWS Unused IAM Credentials 3.0.8

AWS Required Permissions:
iam:GenerateCredentialReport *Read Only*
iam:GetCredentialReport *Read Only*
sts:GetCallerIdentity *Read Only*

Flexera Required Permissions:
billing_center_viewer *Read Only*

AWS Unused IP Addresses 9.4.4

AWS Required Permissions:
cloudtrail:LookupEvents *Read Only*
ec2:DescribeAddresses *Read Only*
ec2:DescribeRegions *Read Only*
sts:GetCallerIdentity *Read Only*

AWS Optional Permissions:
ec2:ReleaseAddress *Write*

Flexera Required Permissions:
billing_center_viewer *Read Only*

AWS Unused Network Load Balancers 0.4.4

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

AWS Optional Permissions:
elasticloadbalancing:DeleteLoadBalancer *Write*

Flexera Required Permissions:
billing_center_viewer *Read Only*

AWS Usage Forecast - Instance Time Used 1.1.5

Flexera Required Permissions:
billing_center_viewer *Read Only*

AWS Usage Report - Instance Time Used 1.1.4

Flexera Required Permissions:
billing_center_viewer *Read Only*

AWS VPCs Without FlowLogs Enabled 4.0.8

AWS Required Permissions:
ec2:DescribeFlowLogs *Read Only*
ec2:DescribeRegions *Read Only*
ec2:DescribeVpcs *Read Only*
sts:GetCallerIdentity *Read Only*

Flexera Required Permissions:
billing_center_viewer *Read Only*

Applied Policy Template Errors 4.0.6

Flexera Required Permissions:
policy_viewer *Read Only*

Automation Reports 0.1.4

Flexera Required Permissions:
policy_viewer *Read Only*

Flexera Optional Permissions:
policy_manager *Write*

Azure AHUB Utilization with Manual Entry 4.1.1

Azure Resource Manager Required Permissions:
Microsoft.Compute/virtualMachines/read *Read Only*
Microsoft.Compute/virtualMachines/vmSizes/read *Read Only*

Flexera Required Permissions:
billing_center_viewer *Read Only*

Azure Advisor Carbon Reduction Recommendations 0.2.1

Azure Resource Manager Required Permissions:
Microsoft.Advisor/recommendations/read *Read Only*

Flexera Required Permissions:
billing_center_viewer *Read Only*

Azure Advisor Compute Instances Recommendations 0.2.1

Azure Resource Manager Required Permissions:
Microsoft.Advisor/recommendations/read *Read Only*
Microsoft.Compute/virtualMachines/read *Read Only*

Azure Resource Manager Optional Permissions:
Microsoft.Compute/virtualMachines/write *Write*

Flexera Required Permissions:
billing_center_viewer *Read Only*

Azure Blob Storage Accounts Without Logging Enabled 3.0.6

Azure Resource Manager Required Permissions:
Microsoft.Storage/storageAccounts/read *Read Only*

Azure Storage Required Permissions:
Microsoft.Storage/storageAccounts/blobServices/containers/list *Read Only*
Microsoft.Storage/storageAccounts/blobServices/containers/properties/read *Read Only*

Flexera Required Permissions:
billing_center_viewer *Read Only*

Azure Blob Storage Accounts Without Soft Delete Enabled 3.0.6

Azure Resource Manager Required Permissions:
Microsoft.Storage/storageAccounts/read *Read Only*

Flexera Required Permissions:
billing_center_viewer *Read Only*

Azure Blob Storage Optimization 4.0.10

Azure Resource Manager Required Permissions:
Microsoft.Storage/storageAccounts/read *Read Only*

Azure Storage Required Permissions:
Microsoft.Storage/storageAccounts/blobServices/containers/blobs/read *Read Only*
Microsoft.Storage/storageAccounts/blobServices/containers/list *Read Only*

Azure Storage Optional Permissions:
Microsoft.Storage/storageAccounts/blobServices/containers/blobs/delete *Write*
Microsoft.Storage/storageAccounts/blobServices/containers/blobs/write *Write*

Flexera Required Permissions:
billing_center_viewer *Read Only*

Azure Bring-Your-Own-License (BYOL) Report 0.4.1

Flexera Required Permissions:
billing_center_viewer *Read Only*

Azure Cheaper Regions 1.0.5

Flexera Required Permissions:
billing_center_viewer *Read Only*

Azure Compute Instances Time Powered Off Report 0.3.1

Azure Resource Manager Required Permissions:
Microsoft.Compute/virtualMachines/read *Read Only*

Azure Resource Manager Optional Permissions:
Microsoft.Compute/virtualMachines/delete *Write*
Microsoft.Compute/virtualMachines/powerOff/action *Write*
Microsoft.Compute/virtualMachines/write *Write*

Flexera Required Permissions:
billing_center_viewer *Read Only*

Azure Credential 0.1.6

Azure Resource Manager Required Permissions:
Microsoft.Resources/subscriptions/read *Read Only*

Flexera Required Permissions:
billing_center_viewer *Read Only*

Azure Data Lake Optimization 0.2.1

Azure Resource Manager Required Permissions:
Microsoft.Storage/storageAccounts/read *Read Only*

Azure Storage Required Permissions:
Microsoft.Storage/storageAccounts/blobServices/containers/blobs/read *Read Only*
Microsoft.Storage/storageAccounts/blobServices/containers/list *Read Only*

Azure Storage Optional Permissions:
Microsoft.Storage/storageAccounts/blobServices/containers/blobs/delete *Write*
Microsoft.Storage/storageAccounts/blobServices/containers/blobs/write *Write*

Flexera Required Permissions:
billing_center_viewer *Read Only*

Azure Databricks Rightsize Compute Instances 0.6.1

Azure Resource Manager Required Permissions:
Microsoft.Compute/skus/read *Read Only*
Microsoft.Compute/virtualMachines/read *Read Only*
Microsoft.Insights/*/read *Read Only*

Flexera Required Permissions:
billing_center_viewer *Read Only*

Azure Deprecated Storage Accounts 0.2.1

Azure Resource Manager Required Permissions:
Microsoft.Resources/subscriptions/read *Read Only*
Microsoft.Storage/storageAccounts/read *Read Only*

Flexera Required Permissions:
billing_center_viewer *Read Only*

Azure Disallowed Regions 4.1.7

Azure Resource Manager Required Permissions:
Microsoft.Compute/virtualMachines/read *Read Only*

Azure Resource Manager Optional Permissions:
Microsoft.Compute/virtualMachines/write *Write*

Flexera Required Permissions:
billing_center_viewer *Read Only*

Azure Expiring Certificates 4.1.1

Azure Resource Manager Required Permissions:
Microsoft.Web/certificates/read *Read Only*

Azure Resource Manager Optional Permissions:
Microsoft.Web/certificates/delete *Write*

Flexera Required Permissions:
billing_center_viewer *Read Only*

Azure Expiring Reserved Instances 3.1.1

Flexera Required Permissions:
billing_center_viewer *Read Only*

Azure Expiring Savings Plans 0.2.1

Azure Resource Manager Required Permissions:
Microsoft.Billing/billingAccounts/read *Read Only*

Flexera Required Permissions:
billing_center_viewer *Read Only*

Azure Guest Users 3.0.6

Microsoft Graph Required Permissions:
Directory.Read.All *Read Only*
User.Read.All *Read Only*

Flexera Required Permissions:
billing_center_viewer *Read Only*

Azure Hybrid Use Benefit for Linux Server 5.2.2

Azure Resource Manager Required Permissions:
Microsoft.Compute/virtualMachines/read *Read Only*

Azure Resource Manager Optional Permissions:
Microsoft.Compute/virtualMachines/write *Write*

Flexera Required Permissions:
billing_center_viewer *Read Only*

Azure Hybrid Use Benefit for SQL 4.4.1

Azure Resource Manager Required Permissions:
Microsoft.Sql/managedInstances/read *Read Only*
Microsoft.Sql/servers/read *Read Only*
Microsoft.SqlVirtualMachine/sqlVirtualMachines/read *Read Only*

Azure Resource Manager Optional Permissions:
Microsoft.Sql/managedInstances/write *Write*
Microsoft.Sql/servers/write *Write*
Microsoft.SqlVirtualMachine/sqlVirtualMachines/write *Write*

Flexera Required Permissions:
billing_center_viewer *Read Only*

Azure Hybrid Use Benefit for Windows Server 5.3.1

Azure Resource Manager Required Permissions:
Microsoft.Compute/virtualMachines/read *Read Only*

Azure Resource Manager Optional Permissions:
Microsoft.Compute/virtualMachines/write *Write*

Flexera Required Permissions:
billing_center_viewer *Read Only*

Azure Instances not running FlexNet Inventory Agent 4.3.1

Azure Resource Manager Required Permissions:
Microsoft.Compute/virtualMachines/read *Read Only*

Azure Long Running Instances 6.2.1

Azure Resource Manager Required Permissions:
Microsoft.Compute/virtualMachines/read *Read Only*

Azure Resource Manager Optional Permissions:
Microsoft.Compute/virtualMachines/write *Write*

Flexera Required Permissions:
billing_center_viewer *Read Only*

Azure Long Stopped Compute Instances 6.1.2

Azure Resource Manager Required Permissions:
Microsoft.Compute/disks/read *Read Only*
Microsoft.Compute/virtualMachines/instanceView/read *Read Only*
Microsoft.Compute/virtualMachines/read *Read Only*

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

Azure Resource Manager Optional Permissions:
Microsoft.Compute/virtualMachines/delete *Write*

Flexera Required Permissions:
billing_center_viewer *Read Only*

Azure Missing Subscriptions 0.1.6

Azure Resource Manager Required Permissions:
Microsoft.Resources/subscriptions/read *Read Only*

Flexera Required Permissions:
billing_center_viewer *Read Only*

Azure MySQL Flexible Servers Without Secure TLS 3.0.6

Azure Resource Manager Required Permissions:
Microsoft.DBforMySQL/flexibleServers/configurations/read *Read Only*
Microsoft.DBforMySQL/flexibleServers/read *Read Only*
Microsoft.Resources/subscriptions/read *Read Only*

Flexera Required Permissions:
billing_center_viewer *Read Only*

Azure MySQL Servers Without Enforced SSL 3.0.6

Azure Resource Manager Required Permissions:
Microsoft.DBforMySQL/servers/read *Read Only*
Microsoft.Resources/subscriptions/read *Read Only*

Flexera Required Permissions:
billing_center_viewer *Read Only*

Azure Network Security Groups With Inbound RDP Open 3.0.6

Azure Resource Manager Required Permissions:
Microsoft.Network/networkSecurityGroups/read *Read Only*

Flexera Required Permissions:
billing_center_viewer *Read Only*

Azure Network Security Groups With Inbound SSH Open 3.0.6

Azure Resource Manager Required Permissions:
Microsoft.Network/networkSecurityGroups/read *Read Only*

Flexera Required Permissions:
billing_center_viewer *Read Only*

Azure New Marketplace Products 0.6.1

Flexera Required Permissions:
billing_center_viewer *Read Only*

Azure Old Snapshots 7.3.1

Azure Resource Manager Required Permissions:
Microsoft.Compute/snapshots/read *Read Only*

Azure Resource Manager Optional Permissions:
Microsoft.Compute/snapshots/delete *Write*

Flexera Required Permissions:
billing_center_viewer *Read Only*

Azure Overutilized Compute Instances 0.2.1

Azure Resource Manager Required Permissions:
Microsoft.Compute/locations/vmSizes/read *Read Only*
Microsoft.Compute/skus/read *Read Only*
Microsoft.Compute/virtualMachines/read *Read Only*
Microsoft.Insights/metrics/read *Read Only*

Azure Resource Manager Optional Permissions:
Microsoft.Compute/virtualMachines/write *Write*

Flexera Required Permissions:
billing_center_viewer *Read Only*

Azure Policy Audit 3.1.1

Azure Resource Manager Required Permissions:
Microsoft.Authorization/policyAssignments/read *Read Only*
Microsoft.Authorization/policyDefinitions/read *Read Only*

Flexera Required Permissions:
billing_center_viewer *Read Only*

Azure PostgreSQL Servers With Bad Log Settings 3.0.6

Azure Resource Manager Required Permissions:
Microsoft.DBForPostgreSql/servers/read *Read Only*
Microsoft.Resources/subscriptions/read *Read Only*

Flexera Required Permissions:
billing_center_viewer *Read Only*

Azure PostgreSQL Servers With Insufficient Log Retention 3.0.6

Azure Resource Manager Required Permissions:
Microsoft.DBForPostgreSql/servers/read *Read Only*
Microsoft.Resources/subscriptions/read *Read Only*

Flexera Required Permissions:
billing_center_viewer *Read Only*

Azure PostgreSQL Servers Without Connection Throttling 3.0.6

Azure Resource Manager Required Permissions:
Microsoft.DBForPostgreSql/servers/read *Read Only*
Microsoft.Resources/subscriptions/read *Read Only*

Flexera Required Permissions:
billing_center_viewer *Read Only*

Azure PostgreSQL Servers Without Infrastructure Encryption 3.0.6

Azure Resource Manager Required Permissions:
Microsoft.DBForPostgreSql/servers/read *Read Only*
Microsoft.Resources/subscriptions/read *Read Only*

Flexera Required Permissions:
billing_center_viewer *Read Only*

Azure Publicly-Accessible Blob Containers 3.0.7

Azure Resource Manager Required Permissions:
Microsoft.Storage/storageAccounts/read *Read Only*

Azure Storage Required Permissions:
Microsoft.Storage/storageAccounts/blobServices/containers/list *Read Only*
Microsoft.Storage/storageAccounts/blobServices/containers/properties/read *Read Only*

Flexera Required Permissions:

billing_center_viewer *Read Only*

Azure Publicly-Accessible SQL Managed Instances 3.0.6

Azure Resource Manager Required Permissions:
Microsoft.Resources/subscriptions/read *Read Only*
Microsoft.Sql/managedInstances/read *Read Only*

Azure Resource Manager Optional Permissions:
Microsoft.Sql/managedInstances/delete *Write*
Microsoft.Sql/managedInstances/update *Write*

Flexera Required Permissions:
billing_center_viewer *Read Only*

Azure Queue Storage Accounts Without Logging Enabled 3.0.6

Azure Resource Manager Required Permissions:
Microsoft.Storage/storageAccounts/read *Read Only*

Azure Storage Required Permissions:
Storage Queue Data Reader *Read Only*

Flexera Required Permissions:
billing_center_viewer *Read Only*

Azure Regulatory Compliance 3.0.6

Azure Resource Manager Required Permissions:
Microsoft.Security/regulatoryComplianceStandards/read *Read Only*

Flexera Required Permissions:
billing_center_viewer *Read Only*

Azure Reserved Instances Recommendations 4.5.1

Azure Resource Manager Required Permissions:
Microsoft.Consumption/reservationRecommendations/read *Read Only*

Azure Resource Manager Optional Permissions:
Microsoft.Billing/billingAccounts/read *Read Only*

Flexera Required Permissions:
billing_center_viewer *Read Only*

Azure Reserved Instances Utilization 4.1.1

Flexera Required Permissions:
billing_center_viewer *Read Only*

Azure Rightsize Compute Instances 6.3.1

Azure Resource Manager Required Permissions:
Microsoft.Compute/locations/vmSizes/read *Read Only*
Microsoft.Compute/skus/read *Read Only*
Microsoft.Compute/virtualMachines/read *Read Only*
Microsoft.Insights/*/read *Read Only*

Azure Resource Manager Optional Permissions:
Microsoft.Compute/virtualMachines/delete *Write*
Microsoft.Compute/virtualMachines/powerOff/action *Write*
Microsoft.Compute/virtualMachines/start/action *Write*
Microsoft.Compute/virtualMachines/write *Write*

Flexera Required Permissions:
billing_center_viewer *Read Only*

Azure Rightsize Managed Disks 2.7.2

Azure Resource Manager Required Permissions:
Microsoft.Compute/disks/read *Read Only*
Microsoft.Compute/virtualMachines/read *Read Only*
Microsoft.Insights/metrics/read *Read Only*

Flexera Required Permissions:
billing_center_viewer *Read Only*

Azure Rightsize MySQL Flexible Servers 0.3.1

Azure Resource Manager Required Permissions:
Microsoft.DBforMySQL/flexibleServers/read *Read Only*
Microsoft.Insights/metrics/read *Read Only*

Azure Resource Manager Optional Permissions:
Microsoft.DBforMySQL/flexibleServers/delete *Write*
Microsoft.DBforMySQL/flexibleServers/update *Write*

Flexera Required Permissions:
billing_center_viewer *Read Only*

Azure Rightsize MySQL Single Servers 0.3.1

Azure Resource Manager Required Permissions:
Microsoft.DBforMySQL/servers/read *Read Only*
Microsoft.Insights/metrics/read *Read Only*

Azure Resource Manager Optional Permissions:
Microsoft.DBforMySQL/servers/delete *Write*
Microsoft.DBforMySQL/servers/update *Write*

Flexera Required Permissions:
billing_center_viewer *Read Only*

Azure Rightsize NetApp Resources 2.1.2

Azure Resource Manager Required Permissions:
Microsoft.Insights/metrics/read *Read Only*
Microsoft.NetApp/netAppAccounts/capacityPools/read *Read Only*
Microsoft.NetApp/netAppAccounts/capacityPools/volumes/read *Read Only*

Azure Resource Manager Optional Permissions:
Microsoft.NetApp/netAppAccounts/capacityPools/volumes/write *Write*
Microsoft.NetApp/netAppAccounts/capacityPools/write *Write*

Flexera Required Permissions:
billing_center_viewer *Read Only*

Azure Rightsize SQL Database Storage 0.2.1

Azure Resource Manager Required Permissions:
Microsoft.Insights/metrics/read *Read Only*
Microsoft.Sql/servers/databases/metrics/read *Read Only*
Microsoft.Sql/servers/databases/read *Read Only*
Microsoft.Sql/servers/read *Read Only*

Flexera Required Permissions:
billing_center_viewer *Read Only*

Azure Rightsize SQL Databases 6.1.1

Azure Resource Manager Required Permissions:
Microsoft.Insights/metrics/read *Read Only*
Microsoft.Sql/servers/databases/metrics/read *Read Only*
Microsoft.Sql/servers/databases/read *Read Only*
Microsoft.Sql/servers/read *Read Only*

Azure Resource Manager Optional Permissions:

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

Flexera Required Permissions:
billing_center_viewer *Read Only*

Azure Rightsize SQL Managed Instance Storage 0.3.1

Azure Resource Manager Required Permissions:
Microsoft.Insights/metrics/read *Read Only*
Microsoft.Sql/managedInstances/metrics/read *Read Only*
Microsoft.Sql/managedInstances/read *Read Only*

Azure Resource Manager Optional Permissions:
Microsoft.Sql/managedInstances/update *Write*

Flexera Required Permissions:
billing_center_viewer *Read Only*

Azure Rightsize SQL Managed Instances 0.4.1

Azure Resource Manager Required Permissions:
Microsoft.Insights/metrics/read *Read Only*
Microsoft.Sql/managedInstances/metrics/read *Read Only*
Microsoft.Sql/managedInstances/read *Read Only*

Azure Resource Manager Optional Permissions:
Microsoft.Sql/managedInstances/delete *Write*
Microsoft.Sql/managedInstances/update *Write*

Flexera Required Permissions:
billing_center_viewer *Read Only*

Azure Rightsize Synapse SQL Pools 0.2.2

Azure Resource Manager Required Permissions:
Microsoft.Insights/metrics/read *Read Only*
Microsoft.Synapse/sqlPools/delete *Write*
Microsoft.Synapse/sqlPools/pause/action *Read Only*
Microsoft.Synapse/sqlPools/read *Read Only*
Microsoft.Synapse/sqlPools/resume/action *Read Only*
Microsoft.Synapse/sqlPools/write *Write*
Microsoft.Synapse/workspaces/read *Read Only*

Flexera Required Permissions:
billing_center_viewer *Read Only*

Azure Rule-Based Dimension From Resource Group Tags 2.1.1

Azure Resource Manager Required Permissions:
Microsoft.Resources/subscriptions/providers/read *Read Only*
Microsoft.Resources/subscriptions/resources/read *Read Only*
Microsoft.Resources/tags/read *Read Only*

Flexera Required Permissions:
billing_center_viewer *Read Only*
observer *Read Only*
rule_based_dimensions_manager *Read Only*

Azure Rule-Based Dimension From Subscription Tags 2.1.1

Azure Resource Manager Required Permissions:
Microsoft.Resources/subscriptions/providers/read *Read Only*
Microsoft.Resources/subscriptions/resources/read *Read Only*
Microsoft.Resources/tags/read *Read Only*

Flexera Required Permissions:
billing_center_viewer *Read Only*
observer *Read Only*
rule_based_dimensions_manager *Read Only*

Azure SQL Databases Without Encryption 3.0.6

Azure Resource Manager Required Permissions:
Microsoft.Resources/subscriptions/read *Read Only*
Microsoft.Sql/servers/databases/read *Read Only*
Microsoft.Sql/servers/databases/transparentDataEncryption/read *Read Only*
Microsoft.Sql/servers/read *Read Only*

Flexera Required Permissions:
billing_center_viewer *Read Only*

Azure SQL Servers Vulnerability Assessment Does Not Notify Admins 3.0.6

Azure Resource Manager Required Permissions:
Microsoft.Resources/subscriptions/read *Read Only*
Microsoft.Sql/servers/read *Read Only*
Microsoft.Sql/servers/vulnerabilityAssessments/read *Read Only*

Flexera Required Permissions:
billing_center_viewer *Read Only*

Azure SQL Servers Vulnerability Assessment Without Email Notifications 3.0.6

Azure Resource Manager Required Permissions:
Microsoft.Resources/subscriptions/read *Read Only*
Microsoft.Sql/servers/read *Read Only*
Microsoft.Sql/servers/vulnerabilityAssessments/read *Read Only*

Flexera Required Permissions:
billing_center_viewer *Read Only*

Azure SQL Servers Vulnerability Assessment Without Periodic Scans 3.0.6

Azure Resource Manager Required Permissions:
Microsoft.Resources/subscriptions/read *Read Only*
Microsoft.Sql/servers/read *Read Only*
Microsoft.Sql/servers/vulnerabilityAssessments/read *Read Only*

Flexera Required Permissions:
billing_center_viewer *Read Only*

Azure SQL Servers With Insufficient Auditing Retention 3.0.6

Azure Resource Manager Required Permissions:
Microsoft.Resources/subscriptions/read *Read Only*
Microsoft.Sql/servers/read *Read Only*

Flexera Required Permissions:
billing_center_viewer *Read Only*

Azure SQL Servers Without Active Directory Admin 3.0.6

Azure Resource Manager Required Permissions:
Microsoft.Resources/subscriptions/read *Read Only*
Microsoft.Sql/servers/administrators/read *Read Only*
Microsoft.Sql/servers/read *Read Only*

Flexera Required Permissions:
billing_center_viewer *Read Only*

Azure SQL Servers Without Advanced Threat Protection (ATP) 3.0.6

Azure Resource Manager Required Permissions:
Microsoft.Resources/subscriptions/read *Read Only*

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

Flexera Required Permissions:
billing_center_viewer *Read Only*

Azure SQL Servers Without Auditing Enabled 3.0.6

Azure Resource Manager Required Permissions:
Microsoft.Resources/subscriptions/read *Read Only*
Microsoft.Sql/servers/read *Read Only*

Flexera Required Permissions:
billing_center_viewer *Read Only*

Azure SQL Servers Without Elastic Pools 3.1.1

Azure Resource Manager Required Permissions:
Microsoft.Sql/servers/read *Read Only*

Flexera Required Permissions:
billing_center_viewer *Read Only*

Azure SQL Servers Without Vulnerability Assessment (VA) Enabled 3.0.6

Azure Resource Manager Required Permissions:
Microsoft.Resources/subscriptions/read *Read Only*
Microsoft.Sql/servers/read *Read Only*
Microsoft.Sql/servers/vulnerabilityAssessments/read *Read Only*

Flexera Required Permissions:
billing_center_viewer *Read Only*

Azure Savings Plan Recommendations 3.3.1

Azure Resource Manager Required Permissions:
Microsoft.CostManagement/benefitRecommendations/read *Read Only*

Flexera Required Permissions:
billing_center_viewer *Read Only*

Azure Savings Plan Utilization 0.2.1

Azure Resource Manager Required Permissions:
Microsoft.Billing/billingAccounts/read *Read Only*

Flexera Required Permissions:
billing_center_viewer *Read Only*

Azure Savings Realized from Reservations 3.9.7

Flexera Required Permissions:
billing_center_viewer *Read Only*

Azure Schedule Instance 7.0.9

Azure Resource Manager Required Permissions:
Microsoft.Compute/virtualMachines/deallocate/action *Write*
Microsoft.Compute/virtualMachines/delete *Write*
Microsoft.Compute/virtualMachines/read *Read Only*
Microsoft.Compute/virtualMachines/start/action *Write*
Microsoft.Compute/virtualMachines/write *Write*

Flexera Required Permissions:
billing_center_viewer *Read Only*

Azure Storage Accounts Allowing Default Network Access 3.0.6

Azure Resource Manager Required Permissions:
Microsoft.Storage/storageAccounts/read *Read Only*

Flexera Required Permissions:
billing_center_viewer *Read Only*

Azure Storage Accounts Without Secure TLS 3.0.6

Azure Resource Manager Required Permissions:
Microsoft.Storage/storageAccounts/read *Read Only*

Flexera Required Permissions:
billing_center_viewer *Read Only*

Azure Storage Accounts Without Secure Transfer 3.0.6

Azure Resource Manager Required Permissions:
Microsoft.Storage/storageAccounts/read *Read Only*

Flexera Required Permissions:

billing_center_viewer *Read Only*

Azure Storage Accounts Without Trusted Microsoft Services Access 3.0.6

Azure Resource Manager Required Permissions:
Microsoft.Storage/storageAccounts/read *Read Only*

Flexera Required Permissions:
billing_center_viewer *Read Only*

Azure Storage Accounts without Lifecycle Management Policies 4.1.1

Azure Resource Manager Required Permissions:
Microsoft.Storage/storageAccounts/read *Read Only*

Flexera Required Permissions:
billing_center_viewer *Read Only*

Azure Subscriptions Without High Severity Alerts 3.0.5

Azure Resource Manager Required Permissions:
Microsoft.Resources/subscriptions/read *Read Only*
Microsoft.Security/securityContacts/read *Read Only*

Flexera Required Permissions:
billing_center_viewer *Read Only*

Azure Subscriptions Without Log Analytics Auto-Provisioning 3.0.6

Azure Resource Manager Required Permissions:
Microsoft.Resources/subscriptions/read *Read Only*
Microsoft.Security/autoProvisioningSettings/read *Read Only*

Flexera Required Permissions:
billing_center_viewer *Read Only*

Azure Subscriptions Without Owner Security Alerts 3.0.6

Azure Resource Manager Required Permissions:
Microsoft.Resources/subscriptions/read *Read Only*
Microsoft.Security/securityContacts/read *Read Only*

Flexera Required Permissions:

billing_center_viewer *Read Only*

Azure Subscriptions Without Security Contact Email 3.0.6

Azure Resource Manager Required Permissions:
Microsoft.Resources/subscriptions/read *Read Only*
Microsoft.Security/securityContacts/read *Read Only*

Flexera Required Permissions:
billing_center_viewer *Read Only*

Azure Superseded Compute Instances 4.1.1

Azure Resource Manager Required Permissions:
Microsoft.Compute/locations/vmSizes/read *Read Only*
Microsoft.Compute/virtualMachines/read *Read Only*

Azure Resource Manager Optional Permissions:
Microsoft.Compute/virtualMachines/write *Write*

Flexera Required Permissions:
billing_center_viewer *Read Only*

Azure Table Storage Accounts Without Logging Enabled 3.0.6

Azure Resource Manager Required Permissions:
Microsoft.Storage/storageAccounts/read *Read Only*

Azure Storage Required Permissions:
Storage Table Data Reader *Read Only*

Flexera Required Permissions:
billing_center_viewer *Read Only*

Azure Tag Cardinality Report 3.3.1

Azure Resource Manager Required Permissions:
Microsoft.Resources/resourceGroups/read *Read Only*
Microsoft.Resources/subscriptions/providers/read *Read Only*
Microsoft.Resources/subscriptions/read *Read Only*
Microsoft.Resources/subscriptions/resources/read *Read Only*
Microsoft.Resources/tags/read *Read Only*

Flexera Required Permissions:
billing_center_viewer *Read Only*

Azure Untagged Resources 3.4.1

Azure Resource Manager Required Permissions:
Microsoft.Resources/subscriptions/providers/read *Read Only*
Microsoft.Resources/subscriptions/resourceGroups/read *Read Only*
Microsoft.Resources/subscriptions/resources/read *Read Only*
Microsoft.Resources/tags/read *Read Only*

Azure Resource Manager Optional Permissions:
Microsoft.Resources/tags/write *Write*

Flexera Required Permissions:
billing_center_viewer *Read Only*

Azure Untagged Virtual Machines 1.2.1

Azure Resource Manager Required Permissions:
Microsoft.Compute/virtualMachines/read *Read Only*
Microsoft.Resources/tags/read *Read Only*

Azure Resource Manager Optional Permissions:
Microsoft.Compute/virtualMachines/write *Write*
Microsoft.Resources/tags/write *Write*

Flexera Required Permissions:
billing_center_viewer *Read Only*

Azure Unused App Service Plans 0.2.1

Azure Resource Manager Required Permissions:
Microsoft.Web/serverfarms/read *Read Only*
Microsoft.Web/sites/read *Read Only*

Azure Resource Manager Optional Permissions:
Microsoft.Web/serverfarms/delete *Write*

Flexera Required Permissions:
billing_center_viewer *Read Only*

Azure Unused Firewalls 0.3.1

Azure Resource Manager Required Permissions:
Microsoft.Insights/metrics/read *Read Only*
Microsoft.Network/azureFirewalls/read *Read Only*

Azure Resource Manager Optional Permissions:
Microsoft.Network/azureFirewalls/delete *Write*

Flexera Required Permissions:
billing_center_viewer *Read Only*

Azure Unused IP Addresses 7.4.1

Azure Resource Manager Required Permissions:
Microsoft.Insights/eventtypes/values/read *Read Only*
Microsoft.Network/publicIPAddresses/read *Read Only*

Azure Resource Manager Optional Permissions:
Microsoft.Network/publicIPAddresses/delete *Write*

Flexera Required Permissions:
billing_center_viewer *Read Only*

Azure Unused Load Balancers 0.2.1

Azure Resource Manager Required Permissions:
Microsoft.Insights/metrics/read *Read Only*
Microsoft.Network/loadBalancers/read *Read Only*

Azure Resource Manager Optional Permissions:
Microsoft.Network/loadBalancers/delete *Write*

Flexera Required Permissions:
billing_center_viewer *Read Only*

Azure Unused Storage Accounts 0.2.1

Azure Resource Manager Required Permissions:
Microsoft.Insights/*/read *Read Only*
Microsoft.Resources/subscriptions/read *Read Only*
Microsoft.Storage/storageAccounts/read *Read Only*

Azure Resource Manager Optional Permissions:
Microsoft.Storage/storageAccounts/delete *Write*

Flexera Required Permissions:
billing_center_viewer *Read Only*

Azure Unused Virtual Network Gateways 0.2.1

Azure Resource Manager Required Permissions:
Microsoft.Network/connections/read *Read Only*
Microsoft.Network/virtualNetworkGateways/read *Read Only*

Azure Resource Manager Optional Permissions:
Microsoft.Network/virtualNetworkGateways/delete *Write*

Flexera Required Permissions:
billing_center_viewer *Read Only*

Azure Unused Volumes 8.3.1

Azure Resource Manager Required Permissions:
Microsoft.Compute/disks/read *Read Only*
Microsoft.Insights/metrics/read *Read Only*

Azure Resource Manager Optional Permissions:
Microsoft.Compute/disks/write *Write*
Microsoft.Compute/snapshots/write *Write*
Microsoft.Compute/virtualMachines/read *Write*
Microsoft.Compute/virtualMachines/write *Write*

Flexera Required Permissions:
billing_center_viewer *Read Only*

Azure Usage Report - Instance Time Used 1.0.9

Flexera Required Permissions:
billing_center_viewer *Read Only*

Azure VMs Not Using Managed Disks 4.1.1

Azure Resource Manager Required Permissions:
Microsoft.Compute/virtualMachines/read *Read Only*

Flexera Required Permissions:
billing_center_viewer *Read Only*

Azure Web Apps With Unoptimized Scaling 0.3.1

Azure Resource Manager Required Permissions:
Microsoft.Insights/autoscalesettings/read *Read Only*
Microsoft.Web/sites/read *Read Only*

Flexera Required Permissions:
billing_center_viewer *Read Only*

Azure Web Apps Without Secure TLS 3.0.6

Azure Resource Manager Required Permissions:
Microsoft.Web/sites/read *Read Only*

Flexera Required Permissions:
billing_center_viewer *Read Only*

Billing Center Access Report 3.2.1

Flexera Required Permissions:
billing_center_viewer *Read Only*
enterprise_manager *Read Only*

Budget Alerts 3.4.3

Flexera Required Permissions:
billing_center_viewer *Read Only*

Budget vs Actual Spend Report 2.5.7

Flexera Required Permissions:
billing_center_viewer *Read Only*
budget_viewer *Read Only*

Cloud Bill Processing Error Notification 2.6.4

Flexera Required Permissions:
ca_user *Read Only*
csm_bill_upload_admin *Read Only*
enterprise_manager *Read Only*
observer *Read Only*

Cloud Cost Anomaly Alerts 4.0.3

Flexera Required Permissions:
billing_center_viewer *Read Only*
policy_manager *Read Only*

Cloud Spend Forecast - Straight-Line 4.0.6

Flexera Required Permissions:
billing_center_viewer *Read Only*

Cloud Spend Moving Average Report 4.0.5

Flexera Required Permissions:
billing_center_viewer *Read Only*

Common Bill Ingestion from AWS S3 Object Storage 0.2.4

AWS Optional Permissions:
s3:GetObject *Read Only*

Flexera Required Permissions:
billing_center_viewer *Read Only*
csm_bill_upload_admin *Read Only*

Common Bill Ingestion from AWS S3 Object Storage (Iterating) 0.1.2

AWS Optional Permissions:
s3:GetObject *Read Only*
s3:ListBucket *Read Only*

Flexera Required Permissions:
billing_center_viewer *Read Only*
csm_bill_upload_admin *Read Only*

Common Bill Ingestion from Azure Blob Storage 0.2.4

Azure Storage Required Permissions:
Microsoft.Storage/storageAccounts/blobServices/containers/blobs/read *Read Only*

Flexera Required Permissions:
billing_center_viewer *Read Only*
csm_bill_upload_admin *Read Only*

Common Bill Ingestion from Azure Blob Storage (Iterating) 0.1.2

Azure Storage Required Permissions:
Microsoft.Storage/storageAccounts/blobServices/containers/blobs/list/action *Read Only*
Microsoft.Storage/storageAccounts/blobServices/containers/blobs/read *Read Only*
Microsoft.Storage/storageAccounts/blobServices/containers/read *Read Only*

Flexera Required Permissions:
billing_center_viewer *Read Only*
csm_bill_upload_admin *Read Only*

Configure Custom Branding 0.1.4

Flexera Optional Permissions:
manage_organization *Read Only*

Cost Reallocation 0.1.2

Flexera Required Permissions:
billing_center_viewer *Read Only*

Flexera Optional Permissions:
org_owner *Read Only*

Cost Reallocation - AWS Support 0.1.1

Flexera Required Permissions:
billing_center_viewer *Read Only*

Flexera Optional Permissions:
org_owner *Read Only*

Cost Reallocation - Google Cloud Logging 0.1.2

Flexera Required Permissions:
billing_center_viewer *Read Only*

Flexera Optional Permissions:
org_owner *Read Only*

Google Cloud Required Permissions:
cloudresourcemanager.projects.get *Read Only*
cloudresourcemanager.projects.list *Read Only*
compute.regions.list *Read Only*
monitoring.timeSeries.list *Read Only*

Currency Conversion 5.1.1

Flexera Required Permissions:
enterprise_manager *Read Only*

Dynamic Dashboards 0.2.1

Flexera Required Permissions:
billing_center_viewer *Read Only*

csm_dashboard_admin *Read Only*

Email Cost Optimization Recommendations 0.8.1

Flexera Required Permissions:
billing_center_viewer *Read Only*

FinOps Dashboards 0.1.3

Flexera Required Permissions:
csm_dashboard_admin *Read Only*

Fixed Cost Common Bill Ingestion 0.3.3

Flexera Required Permissions:
billing_center_viewer *Read Only*
csm_bill_upload_admin *Read Only*

Flexera Automation Disallowed Credentials 0.1.4

Flexera Required Permissions:
credential_viewer *Read Only*

Flexera Optional Permissions:
iam_admin *Write*

Flexera Automation Expiring Credentials 0.1.4

Flexera Required Permissions:
credential_viewer *Read Only*

Flexera Optional Permissions:
iam_admin *Write*

Flexera Automation Outdated Applied Policies 0.2.8

Flexera Required Permissions:
policy_viewer *Read Only*

Flexera Optional Permissions:
policy_manager *Write*

Flexera Billing Centers from Dimension Values 0.1.7

Flexera Required Permissions:
billing_center_admin *Read Only*

Flexera CCO Delete All Billing Centers 1.1.5

Flexera Required Permissions:
billing_center_admin *Read Only*
policy_manager *Read Only*

Flexera FOCUS Report 0.2.1

Flexera Required Permissions:
billing_center_viewer *Read Only*

Flexera Onboarding 0.1.6

Flexera Required Permissions:
org_owner *Read Only*

Flexera One API Event Report 0.1.4

Flexera Required Permissions:
iam_admin *Read Only*

Flexera One User Access Report 0.1.5

Flexera Required Permissions:
iam_admin *Read Only*

Flexera Users With Explicit Roles 4.0.5

Flexera Required Permissions:
iam_admin *Read Only*

GitHub Available Seats 3.0.5

Flexera Required Permissions:
billing_center_viewer *Read Only*

GitHub Required Permissions:

admin:org *Read Only*

GitHub Repositories Without Admin Team 3.0.5

Flexera Required Permissions:
billing_center_viewer *Read Only*

GitHub Required Permissions:
admin:org *Read Only*

GitHub Repository Branches Without Protection 3.0.5

Flexera Required Permissions:
billing_center_viewer *Read Only*

GitHub Required Permissions:
admin:org *Read Only*

GitHub Undersized Repositories 3.0.5

Flexera Required Permissions:
billing_center_viewer *Read Only*

GitHub Required Permissions:
admin:org *Read Only*

GitHub Unpermitted Outside Collaborators 3.0.5

Flexera Required Permissions:
billing_center_viewer *Read Only*

GitHub Required Permissions:
admin:org *Read Only*

GitHub Unpermitted Repository Names 3.0.5

Flexera Required Permissions:
billing_center_viewer *Read Only*

GitHub Required Permissions:
admin:org *Read Only*

GitHub Unpermitted Top-Level Teams 3.0.5

Flexera Required Permissions:
billing_center_viewer *Read Only*

GitHub Required Permissions:
admin:org *Read Only*

Google Cheaper Regions 1.0.5

Flexera Required Permissions:
billing_center_viewer *Read Only*

Google Cloud Run Anomaly Detection 0.3.1

Google Cloud Required Permissions:
compute.regions.list *Read Only*
monitoring.timeSeries.list *Read Only*
resourcemanager.projects.get *Read Only*
run.services.list *Read Only*

Google Cloud Storage Without Lifecycle Configuration 0.3.2

Flexera Required Permissions:
billing_center_viewer *Read Only*

Google Cloud Required Permissions:
resourcemanager.projects.get *Read Only*
storage.buckets.list *Read Only*

Google Committed Use Discount Recommender 4.5.3

Flexera Required Permissions:
billing_center_viewer *Read Only*

Google Cloud Required Permissions:
compute.regions.list *Read Only*
recommender.usageCommitmentRecommendations.list *Read Only*
resourcemanager.projects.get *Read Only*

Google Cloud Optional Permissions:
billing.accounts.getSpendingInformation *Read Only*
billing.resourceCosts.get *Read Only*

Google Committed Use Discount Report 3.2.2

Flexera Required Permissions:
billing_center_viewer *Read Only*

Google Cloud Required Permissions:
compute.commitments.get *Read Only*
resourcemanager.projects.get *Read Only*

Google Credential 0.1.6

Flexera Required Permissions:
billing_center_viewer *Read Only*

Google Cloud Required Permissions:
resourcemanager.projects.get *Read Only*

Google Expiring Committed Use Discounts (CUD) 3.2.2

Flexera Required Permissions:
billing_center_viewer *Read Only*

Google Cloud Required Permissions:
compute.commitments.get *Read Only*
resourcemanager.projects.get *Read Only*

Google Idle IP Address Recommender 4.4.3

Flexera Required Permissions:
billing_center_viewer *Read Only*

Google Cloud Required Permissions:
compute.addresses.list *Read Only*
recommender.computeAddressIdleResourceRecommendations.list *Read Only*
resourcemanager.projects.get *Read Only*

Google Cloud Optional Permissions:
compute.addresses.delete *Write*

Google Idle Persistent Disk Recommender 4.4.3

Flexera Required Permissions:
billing_center_viewer *Read Only*

Google Cloud Required Permissions:
compute.disks.list *Read Only*
logging.logEntries.list *Read Only*
logging.privateLogEntries.list *Read Only*

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

Google Cloud Optional Permissions:
compute.disks.createSnapshot *Write*
compute.disks.delete *Write*
compute.globalOperations.get *Write*
compute.snapshots.create *Write*
compute.zoneOperations.get *Write*

Google Label Cardinality Report 0.3.2

Flexera Required Permissions:
billing_center_viewer *Read Only*

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

Google Long Running VM Instances 0.1.1

Flexera Required Permissions:

billing_center_viewer *Read Only*

Google Cloud Required Permissions:
compute.instances.get *Read Only*
compute.instances.list *Read Only*
resourcemanager.projects.get *Read Only*

Google Cloud Optional Permissions:
compute.instances.delete *Write*
compute.instances.stop *Write*

Google Long Stopped VM Instances 4.2.3

Flexera Required Permissions:
billing_center_viewer *Read Only*

Google Cloud Required Permissions:
compute.instances.get *Read Only*
compute.instances.list *Read Only*
monitoring.metricDescriptors.list *Read Only*
monitoring.timeSeries.list *Read Only*
resourcemanager.projects.get *Read Only*

Google Cloud Optional Permissions:
compute.instances.delete *Write*
compute.instances.stop *Write*

Google Missing Projects 0.1.4

Flexera Required Permissions:
billing_center_viewer *Read Only*

Google Cloud Required Permissions:
resourcemanager.projects.get *Read Only*

Google Object Storage Optimization 3.0.10

Flexera Required Permissions:
billing_center_viewer *Read Only*

Google Cloud Required Permissions:
resourcemanager.projects.get *Read Only*
storage.buckets.list *Read Only*
storage.objects.list *Read Only*

Google Cloud Optional Permissions:
storage.objects.create *Write*

storage.objects.delete *Write*

Google Old Snapshots 5.4.2

Flexera Required Permissions:
billing_center_viewer *Read Only*

Google Cloud Required Permissions:
compute.disks.list *Read Only*
compute.regions.list *Read Only*
compute.snapshots.get *Read Only*
compute.snapshots.list *Read Only*
compute.zones.list *Read Only*
resourcemanager.projects.get *Read Only*

Google Cloud Optional Permissions:
compute.snapshots.delete *Write*

Google Open Buckets 3.2.6

Flexera Required Permissions:
billing_center_viewer *Read Only*

Google Cloud Required Permissions:
resourcemanager.projects.get *Read Only*
storage.buckets.get *Read Only*
storage.buckets.getIamPolicy *Read Only*
storage.buckets.list *Read Only*

Google Overutilized VM Instances 0.2.2

Flexera Required Permissions:
billing_center_viewer *Read Only*

Google Cloud Required Permissions:
compute.instances.get *Read Only*
compute.instances.list *Read Only*
compute.machineTypes.list *Read Only*
monitoring.metricDescriptors.list *Read Only*
monitoring.timeSeries.list *Read Only*
resourcemanager.projects.get *Read Only*

Google Cloud Optional Permissions:
compute.instances.setMachineType *Write*
compute.instances.start *Write*
compute.instances.stop *Write*

Google Recommenders 3.2.3

Flexera Required Permissions:
billing_center_viewer *Read Only*

Google Cloud Required Permissions:
resourcemanager.projects.get *Read Only*

Google Cloud Optional Permissions:
recommender.cloudSecurityGeneralRecommendations.list *Read Only*
recommender.cloudsqlIdleInstanceRecommendations.list *Read Only*
recommender.cloudsqlInstanceOutOfDiskRecommendations.list *Read Only*
recommender.cloudsqlOverprovisionedInstanceRecommendations.list *Read Only*
recommender.computeAddressIdleResourceRecommendations.list *Read Only*
recommender.computeDiskIdleResourceRecommendations.list *Read Only*
recommender.computeImageIdleResourceRecommendations.list *Read Only*
recommender.computeInstanceGroupManagerMachineTypeRecommendations.list *Read Only*
recommender.computeInstanceIdleResourceRecommendations.list *Read Only*
recommender.computeInstanceMachineTypeRecommendations.list *Read Only*
recommender.containerDiagnosisRecommendations.list *Read Only*
recommender.iamPolicyRecommendations.list *Read Only*
recommender.loggingProductSuggestionContainerRecommendations.list *Read Only*
recommender.monitoringProductSuggestionComputeRecommendations.list *Read Only*
recommender.resourcemanagerProjectUtilizationRecommendations.list *Read Only*
recommender.runServiceSecurityRecommendations.list *Read Only*
recommender.usageCommitmentRecommendations.list *Read Only*

Google Rightsize Cloud SQL Instances 0.2.3

Flexera Required Permissions:
billing_center_viewer *Read Only*

Google Cloud Required Permissions:
cloudsql.instances.list *Read Only*
monitoring.metricDescriptors.list *Read Only*
monitoring.timeSeries.list *Read Only*
resourcemanager.projects.get *Read Only*

Google Cloud Optional Permissions:
cloudsql.instances.delete *Write*
cloudsql.instances.update *Write*

Google Rightsize Cloud SQL Recommender 0.4.3

Flexera Required Permissions:
billing_center_viewer *Read Only*

Google Cloud Required Permissions:
cloudsql.instances.list *Read Only*
recommender.cloudsqlIdleInstanceRecommendations.list *Read Only*
recommender.cloudsqlOverprovisionedInstanceRecommendations.list *Read Only*
resourcemanager.projects.get *Read Only*

Google Cloud Optional Permissions:
cloudsql.instances.delete *Write*
cloudsql.instances.update *Write*

Google Rightsize VM Instances 0.2.3

Flexera Required Permissions:
billing_center_viewer *Read Only*

Google Cloud Required Permissions:
compute.instances.get *Read Only*
compute.instances.list *Read Only*
monitoring.metricDescriptors.list *Read Only*
monitoring.timeSeries.list *Read Only*
resourcemanager.projects.get *Read Only*

Google Cloud Optional Permissions:
compute.instances.delete *Write*
compute.instances.setMachineType *Write*
compute.instances.start *Write*
compute.instances.stop *Write*

Google Rightsize VM Recommender 3.3.3

Flexera Required Permissions:
billing_center_viewer *Read Only*

Google Cloud Required Permissions:
compute.instances.get *Read Only*
compute.instances.list *Read Only*
monitoring.metricDescriptors.list *Read Only*
monitoring.timeSeries.list *Read Only*
resourcemanager.projects.get *Read Only*

Google Cloud Optional Permissions:
compute.instances.delete *Write*
compute.instances.setMachineType *Write*
compute.instances.start *Write*
compute.instances.stop *Write*
recommender.computeInstanceIdleResourceRecommendations.list *Read Only*
recommender.computeInstanceMachineTypeRecommendations.list *Read Only*

Google Rule-Based Dimension From Project Labels 2.1.1

Flexera Required Permissions:
billing_center_viewer *Read Only*
observer *Read Only*
rule_based_dimensions_manager *Read Only*

Google Cloud Required Permissions:
resourcemanager.projects.get *Read Only*

Google Schedule Instance 6.0.7

Flexera Required Permissions:
billing_center_viewer *Read Only*

Google Cloud Required Permissions:
compute.instances.delete *Write*
compute.instances.get *Read Only*
compute.instances.list *Read Only*
compute.instances.setLabels *Write*
compute.instances.start *Write*
compute.instances.stop *Write*
compute.zones.list *Read Only*
resourcemanager.projects.get *Read Only*

Google Unlabeled Resources 3.3.2

Flexera Required Permissions:
billing_center_viewer *Read Only*

Google Cloud Required Permissions:
compute.disks.list *Read Only*
compute.externalVpnGateways.list *Read Only*
compute.images.list *Read Only*
compute.instances.list *Read Only*
compute.snapshots.list *Read Only*
compute.vpnGateways.list *Read Only*
resourcemanager.projects.get *Read Only*
storage.buckets.list *Read Only*

Google Cloud Optional Permissions:
compute.disks.setLabels *Write*
compute.externalVpnGateways.setLabels *Write*
compute.images.setLabels *Write*
compute.instances.setLabels *Write*
compute.snapshots.setLabels *Write*
compute.vpnGateways.setLabels *Write*

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

Google Unused Disks 0.2.3

Flexera Required Permissions:
billing_center_viewer *Read Only*

Google Cloud Required Permissions:
compute.disks.list *Read Only*
compute.zones.list *Read Only*
resourcemanager.projects.get *Read Only*

Google Cloud Optional Permissions:
compute.disks.createSnapshot *Write*
compute.disks.delete *Write*

Hidden Policy Templates 0.1.5

Flexera Required Permissions:
policy_designer *Read Only*
policy_manager *Read Only*

ITAM Asset Report 0.1.4

Flexera Required Permissions:
di_viewer *Read Only*
policy_viewer *Read Only*

ITAM Expiring Licenses 2.4.6

Flexera Required Permissions:
fnms_user *Read Only*

ITAM Ignored Recent Inventory Dates 2.4.5

Flexera Required Permissions:
fnms_user *Read Only*

ITAM Installed Application Report 0.1.4

Flexera Required Permissions:
di_viewer *Read Only*

policy_viewer *Read Only*

ITAM License Report 0.1.4

Flexera Required Permissions:
di_viewer *Read Only*
policy_viewer *Read Only*

ITAM Missing Active Machines 2.4.5

Flexera Required Permissions:
fnms_user *Read Only*

ITAM Overused Licenses 2.4.6

Flexera Required Permissions:
fnms_user *Read Only*

Kubecost Cluster Rightsizing Recommendation 0.5.1

Flexera Required Permissions:
billing_center_viewer *Read Only*

Kubecost Container Request Rightsizing Recommendations 0.5.1

Flexera Required Permissions:
billing_center_viewer *Read Only*

Kubernetes - Rightsizing Recommendations 0.2.2

Flexera Required Permissions:
policy_viewer *Read Only*

Low Usage Report 3.2.1

Flexera Required Permissions:
billing_center_viewer *Read Only*

Master Org Cost Policy 2.0.5

Flexera Required Permissions:

billing_center_viewer *Read Only*

Master Org Cost Policy with Currency Conversion 2.0.5

Flexera Required Permissions:
billing_center_viewer *Read Only*

New Usage 3.1.1

Flexera Required Permissions:
billing_center_viewer *Read Only*

Office 365 Security Alerts 3.0.5

Microsoft Graph Required Permissions:
SecurityEvents.Read.All *Read Only*

Flexera Required Permissions:
billing_center_viewer *Read Only*

Okta Inactive Users 3.0.5

Flexera Required Permissions:
billing_center_viewer *Read Only*

Okta Required Permissions:
READ_ONLY_ADMIN *Read Only*

Oracle Cloud Advisor: Object Storage Without Lifecycle Management 0.2.1

Flexera Required Permissions:
billing_center_viewer *Read Only*

Required Permissions:
Allow group to read optimizer-api-family in tenancy *Read Only*
Allow group to read optimizer-resource-metadata in tenancy *Read Only*

Oracle Cloud Advisor: Rightsize Autonomous Database Service 0.2.1

Flexera Required Permissions:
billing_center_viewer *Read Only*

Required Permissions:
Allow group to read optimizer-api-family in tenancy *Read Only*
Allow group to read optimizer-resource-metadata in tenancy *Read Only*

Optional Permissions:
Allow group to use autonomous-databases in tenancy *Write*

Oracle Cloud Advisor: Rightsize Base Database Service 0.2.1

Flexera Required Permissions:
billing_center_viewer *Read Only*

Required Permissions:
Allow group to read optimizer-api-family in tenancy *Read Only*
Allow group to read optimizer-resource-metadata in tenancy *Read Only*

Optional Permissions:
Allow group to use db-systems in tenancy *Write*

Oracle Cloud Advisor: Rightsize Load Balancers 0.2.1

Flexera Required Permissions:
billing_center_viewer *Read Only*

Required Permissions:
Allow group to read optimizer-api-family in tenancy *Read Only*
Allow group to read optimizer-resource-metadata in tenancy *Read Only*

Optional Permissions:
Allow group to use load-balancers in tenancy *Write*

Oracle Cloud Advisor: Rightsize Virtual Machines 0.3.1

Flexera Required Permissions:
billing_center_viewer *Read Only*

Required Permissions:
Allow group to read optimizer-api-family in tenancy *Read Only*
Allow group to read optimizer-resource-metadata in tenancy *Read Only*

Optional Permissions:
Allow group to manage instance-family in tenancy *Write*
Allow group to use instance-family in tenancy *Write*
Allow group to use virtual-network-family in tenancy *Write*
Allow group to use volume-family in tenancy *Write*

Oracle Cloud Advisor: Unattached Volumes 0.2.1

Flexera Required Permissions:
billing_center_viewer *Read Only*

Required Permissions:
Allow group to read optimizer-api-family in tenancy *Read Only*
Allow group to read optimizer-resource-metadata in tenancy *Read Only*

Optional Permissions:
Allow group to manage volume-family in tenancy *Write*

Oracle Cloud Common Bill Ingestion 3.3.4

Flexera Required Permissions:
org_owner *Read Only*

Required Permissions:
define tenancy usage-report as *Read Only*
endorse group to read objects in tenancy usage-report *Read Only*

Oracle Tag Cardinality Report 0.1.0

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

Percentage Cost Common Bill Ingestion 0.1.2

Flexera Required Permissions:
billing_center_viewer *Read Only*
csm_bill_upload_admin *Read Only*

Policy Template Synchronization 3.0.5

Flexera Required Permissions:
policy_designer *Read Only*
policy_manager *Read Only*

Rule-Based Dimension From Custom Tags 0.1.4

Flexera Required Permissions:
billing_center_viewer *Read Only*
observer *Read Only*
rule_based_dimensions_manager *Read Only*

SaaS Manager - Deactivated Users 3.1.6

Flexera Required Permissions:
SaaS Manager: Viewer *Read Only*

SaaS Manager - Deactivated Users for Integrated Applications 3.1.6

Flexera Required Permissions:
SaaS Manager: Viewer *Read Only*

SaaS Manager - Duplicate User Accounts 3.1.6

Flexera Required Permissions:
SaaS Manager: Viewer *Read Only*

SaaS Manager - Redundant Apps 3.1.6

Flexera Required Permissions:
SaaS Manager: Viewer *Read Only*

SaaS Manager - Renewal Reminder 3.2.6

Flexera Required Permissions:
SaaS Manager: Viewer *Read Only*

SaaS Manager - SaaS App User Report by Category 3.0.5

Flexera Required Permissions:
SaaS Manager: Viewer *Read Only*

SaaS Manager - Suspicious Users 3.1.6

Flexera Required Permissions:
SaaS Manager: Viewer *Read Only*

SaaS Manager - Unsanctioned Applications with Existing Contract 3.2.6

Flexera Required Permissions:
SaaS Manager: Viewer *Read Only*

SaaS Manager - Unsanctioned Spend 3.1.6

Flexera Required Permissions:
SaaS Manager: Viewer *Read Only*

Schedule ITAM Report 0.2.4

Flexera Required Permissions:
fnms_user *Read Only*

Scheduled Report 4.1.0

Flexera Required Permissions:
billing_center_viewer *Read Only*

Scheduled Report for Unallocated Costs 0.3.4

Flexera Required Permissions:
billing_center_viewer *Read Only*

Scheduled Report with Markups and Markdowns 2.0.3

Flexera Required Permissions:
billing_center_viewer *Read Only*

ServiceNow Inactive Approvers 3.0.5

Flexera Required Permissions:
billing_center_viewer *Read Only*

ServiceNow Required Permissions:
user_admin *Read Only*

Spot Ocean Common Bill Ingestion 0.2.4

Flexera Required Permissions:
billing_center_viewer *Read Only*
csm_bill_upload_admin *Read Only*

Spot Security - Compliance Report 0.1.4

Flexera Required Permissions:

policy_viewer *Read Only*

Vendor Spend Commitment Forecast 4.0.6

Flexera Required Permissions:
billing_center_viewer *Read Only*