



# Policy Catalog AWS Permissions List

This document contains a list of cloud provider permissions required by each AWS 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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## AWS Account Credentials 0.1.7

### 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 3.0.4

### 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 4.4.3

### 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** 1.0.3**Flexera Required Permissions:**

billing\_center\_viewer *Read Only*

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**AWS CloudTrail Not Enabled In All Regions** 3.0.4**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** 3.0.4**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** 3.0.4**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 0.1.5

### 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 3.0.4

### AWS Required Permissions:

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

### Flexera Required Permissions:

billing\_center\_viewer *Read Only*

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## AWS CloudTrails Without Log File Validation Enabled 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 Object-level Events Logging Enabled 3.0.4

### 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 0.2.2

### Flexera Required Permissions:

billing\_center\_viewer *Read Only*

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

3.0.4

### 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 5.0.5

### 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 0.3.5

### 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 0.2.5

### 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 4.3.5**

**AWS Required Permissions:**

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

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## **AWS EKS Clusters Without Spot Instances 0.1.5**

**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 4.0.5**

**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 3.0.3**

**Flexera Required Permissions:**

billing\_center\_viewer *Read Only*

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## **AWS Expiring Savings Plans** 3.0.3

### **AWS Required Permissions:**

savingsplans:DescribeSavingsPlans *Read Only*

### **Flexera Required Permissions:**

billing\_center\_viewer *Read Only*

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## **AWS GP3 Upgradeable Volumes** 4.4.7

### **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** 3.0.5

### **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** 3.0.5

### **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** 3.0.5

### **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** 3.0.5

**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** 3.0.5

**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** 3.0.7

**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** 3.0.5

**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** 3.0.5

**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 3.0.5

**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 3.0.5

**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 3.0.5

**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 3.0.5

**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** 3.0.5

### **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** 3.0.5

### **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** 5.6.7

### **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** 0.1.6

### **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** 4.0.5

### **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** 5.0.5

### **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** 0.1.5

### **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** 5.1.5

**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** 6.0.5**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** 0.2.5**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** 0.3.6**Flexera Required Permissions:**

billing\_center\_viewer *Read Only*

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**AWS Object Storage Optimization** 4.0.7

**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 8.4.8****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 3.1.5****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 3.1.5

### 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 0.1.3

### AWS Required Permissions:

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

### AWS Optional Permissions:

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

### Flexera Required Permissions:

billing\_center\_viewer *Read Only*

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## AWS Publicly Accessible CloudTrail S3 Buckets 3.0.4

### 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 5.1.3

**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** 4.2.7**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** 3.0.5**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** 4.0.5**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** 3.0.5

**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** 4.0.4**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** 3.0.3**AWS Required Permissions:**

ce:GetReservationCoverage *Read Only*

**Flexera Required Permissions:**

billing\_center\_viewer *Read Only*

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**AWS Reserved Instances Recommendations** 3.6.5**AWS Required Permissions:**

ce:GetReservationPurchaseRecommendation *Read Only*

**Flexera Required Permissions:**

billing\_center\_viewer *Read Only*

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**AWS Reserved Instances Utilization** 3.0.3**Flexera Required Permissions:**

billing\_center\_viewer *Read Only*

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**AWS Resources Under Extended Support** 0.2.5**Flexera Required Permissions:**

billing\_center\_viewer *Read Only*

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## AWS Rightsize EBS Volumes 0.3.7

### 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 5.4.3

### 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*  
ec2:TerminateInstances *Write*

### Flexera Required Permissions:

billing\_center\_viewer *Read Only*

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## AWS Rightsize ElastiCache 0.3.3

### 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 5.8.4

### AWS Required Permissions:

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

### AWS Optional Permissions:

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

### Flexera Required Permissions:

billing\_center\_viewer *Read Only*

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## AWS Rightsize Redshift 0.1.6

### 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 3.0.2

### 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 3.0.6

### 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 3.0.5**

**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 4.0.5**

**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 0.1.4**

**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 3.0.5

### 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 3.0.5

### 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 3.0.5

### 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 0.1.3

### AWS Required Permissions:

s3:GetBucketLocation *Read Only*  
s3:GetBucketTagging *Read Only*  
s3:ListAllMyBuckets *Read Only*  
s3:ListBucketMultipartUploads *Read Only*

s3:ListMultipartUploadParts *Read Only*  
sts:GetCallerIdentity *Read Only*

**AWS Optional Permissions:**

s3:AbortMultipartUpload *Write*

**Flexera Required Permissions:**

billing\_center\_viewer *Read Only*

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## AWS S3 Usage Type Rule-Based Dimension 0.1.2

**Flexera Required Permissions:**

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

---

## AWS Savings Plan Recommendations 3.3.5

**AWS Required Permissions:**

ce:GetSavingsPlansPurchaseRecommendation *Read Only*

**Flexera Required Permissions:**

billing\_center\_viewer *Read Only*

---

## AWS Savings Plan Utilization 4.0.4

**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 4.0.3

**Flexera Required Permissions:**

billing\_center\_viewer *Read Only*

---

## AWS Schedule Instance 8.0.4

**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 4.0.5

**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 6.3.9

**AWS Required Permissions:**

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

**AWS Optional Permissions:**

ec2:ModifyVolume *Write*

**Flexera Required Permissions:**

billing\_center\_viewer *Read Only*

---

## AWS Superseded EC2 Instances 2.4.3

**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 3.1.6

**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 5.0.5

**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 4.1.3

**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 5.4.3

**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 0.2.6****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 6.4.6****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 4.0.5****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 3.0.5**

### **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 Unused IP Addresses 9.2.7**

### **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 0.2.6**

### **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 8.3.7

### 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*

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## AWS Usage Forecast - Instance Time Used 1.1.2

### Flexera Required Permissions:

billing\_center\_viewer *Read Only*

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## AWS Usage Forecast - Number of Instance Hours Used 3.3.7

### Flexera Required Permissions:

billing\_center\_viewer *Read Only*

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## AWS Usage Forecast - Number of Instance vCPUs Used 3.3.7

### Flexera Required Permissions:

billing\_center\_viewer *Read Only*

---

## AWS Usage Report - Instance Time Used 1.1.2

### Flexera Required Permissions:

billing\_center\_viewer *Read Only*

---

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

### Flexera Required Permissions:

billing\_center\_viewer *Read Only*

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

### Flexera Required Permissions:

billing\_center\_viewer *Read Only*

---

## AWS VPCs Without FlowLogs Enabled 4.0.5

### 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*

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## Common Bill Ingestion from AWS S3 Object Storage 0.2.2

### AWS Optional Permissions:

s3:GetObject *Read Only*

### Flexera Required Permissions:

billing\_center\_viewer *Read Only*

csm\_bill\_upload\_admin *Read Only*

---

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

0.1.0

### AWS Optional Permissions:

s3:GetObject *Read Only*

s3:ListBucket *Read Only*

### Flexera Required Permissions:

billing\_center\_viewer *Read Only*

csm\_bill\_upload\_admin *Read Only*

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