

IAM > Policies > Create policy

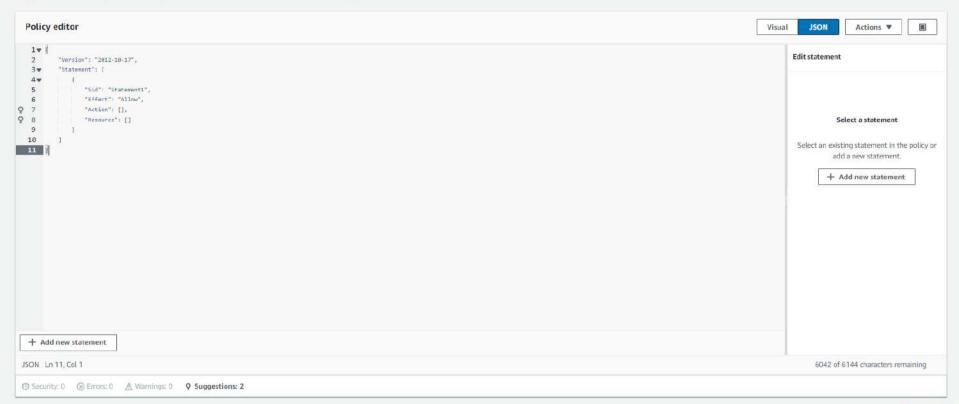
Step 1

Specify permissions

Step 2 Review and create

Specify permissions Info

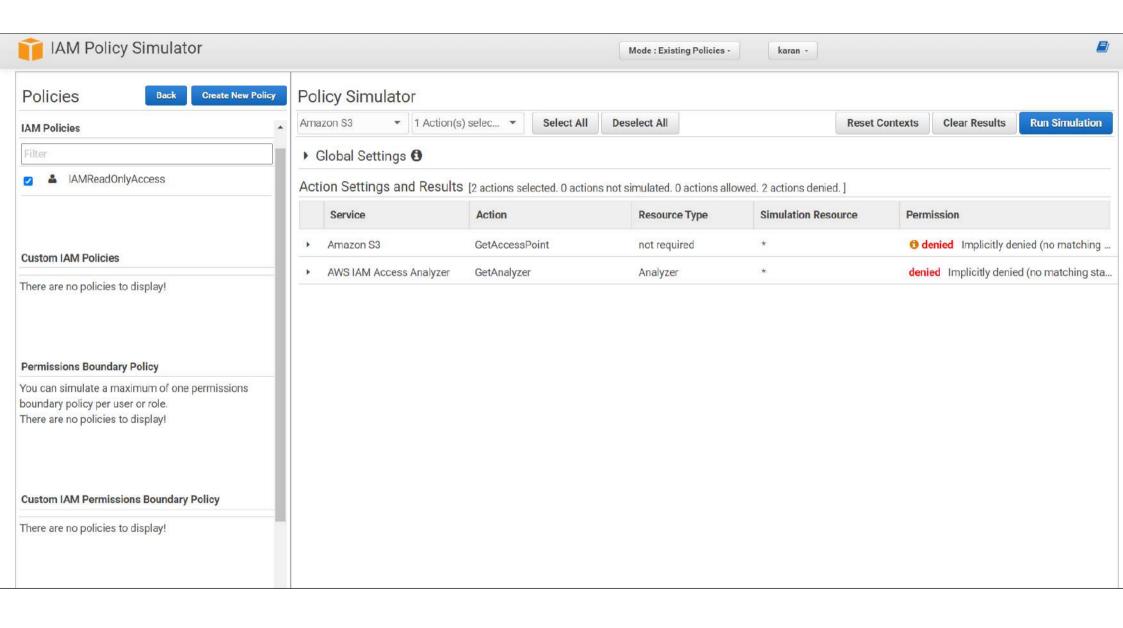
Add permissions by selecting services, actions, resources, and conditions. Build permission statements using the JSON editor.



S3 Allow 1 Action			
Specify what actions can be performed on specific resources in S3.			
▼ Actions allowed			
Specify actions from the service to be allowed.			
Q Filter Actions		Effect	
SHEET TO THE COLUMN THE PROPERTY OF THE COLUMN THE COLU		○ Allow ○ De	
Manual actions Add actions			
All S3 actions (s3.*)			
Access level		Expand all Collapse	
▶ List (15)			
▼ Read (Selected 1/60)			
☐ All read actions	ACTIVIDATE PRODUCTION		
☐ DescribeJob Info	☐ DescribeMultiRegionAccessPointOperation Info	GetAccelerateConfiguration Info	
GetAccessGrant Info	GetAccessGrantsInstance Info	GetAccessGrantsInstanceForPrefix Info	
☐ GetAccessGrantsInstanceResourcePolicy Info	☐ GetAccessGrantsLocation Info	GetAccessPoint Info	
☐ GetAccessPointConfigurationForObjectLambda Info	GetAccessPointForObjectLambda Info	GetAccessPointPolicy Info	
GetAccessPointPolicyForObjectLambda Info	GetAccessPointPolicyStatus Info	GetAccessPointPolicyStatusForObjectLambda Info	
GetAccountPublicAccessBlock Info	GetAnalyticsConfiguration Info	GetBucketAcl Info	
☐ GetBucketCORS Info	☐ GetBucketLocation	☐ GetBucketLogging Info	
GetBucketNotification Info	GetBucketObjectLockConfiguration Info	GetBucketOwnershipControls Info	
GetBucketPolicy Info	☐ GetBucketPolicyStatus Info	GetBucketPublicAccessBlock Info	
GetBucketRequestPayment Info	GetBucketTagging Info	GetBucketVersioning Info	
GetBucketWebsite Info	GetDataAccess Info	GetEncryptionConfiguration Info	
GetIntelligentTieringConfiguration Info	☐ GetInventoryConfiguration Info	GetJobTagging Info	
GetLifecycleConfiguration Info	☐ GetMetricsConfiguration Info	GetMultiRegionAccessPoint Info	
GetMultiRegionAccessPointPolicy Info	☐ GetMultiRegionAccessPointPolicyStatus Info	GetMultiRegionAccessPointRoutes Info	
✓ GetObject Info.	☐ GetObjectAcl Info	GetObjectAttributes Info	
☐ GetObjectLegalHold Info	☐ GetObjectRetention Info	☐ GetObjectTagging Info	

Specify ARN(s)	×	
Visual Text		
Resource bucket name		
xyz	☐ Any bucket name	
Resource object name		
abc	☐ Any object name	
Resource ARN	-	
arn:aws:s3:::xyz/abc		
		
	Cancel Add ARNs	
	4)	

Figure 1 Pendings 2004 Amputer Web Services Inc. or its:



AWS EC2 Instance Metadata

- AWS EC2 Instance Metadata is powerful but one of the least known features to developers
- It allows AWS EC2 instances to "learn about themselves" without using an IAM Role for that purpose.
- The URL is http://169.254.169.254/latest/meta-data
- You can retrieve the IAM Role name from the metadata, but you CANNOT retrieve the IAM Policy.
- Metadata = Info about the EC2 instance
- Userdata = launch script of the EC2 instance
- · Let's practice and see what we can do with it!

```
[ec2-user@ip-172-31-3-136 ~]$ curl http://169.254.169.254/latest/
dynamic
meta-data
user-data[ec2-user@ip-172-31-3-136 ~]$ curl http://169.254.169.254/latest/meta-data/
ami-id
ami-launch-index
ami-manifest-path
block-device-mapping/
hostname
iam/
instance-action
instance-id
instance-type
local-hostname
local-ipv4
mac
metrics/
network/
placement/
profile
public-hostname
public-ipv4
public-keys/
reservation-id
security-groups
services/[ec2-user@ip-172-31-3-136 ~]$ curl http://169.254.169.254/latest/meta-data/instance-id
i-05adcce6933809eda[ec2-user@ip-172-31-3-136 ~]$ curl http://169.254.169.254/latest/meta-data/local-ipv4
```

AWS SDK Overview

- What if you want to perform actions on AWS directly from your applications code? (without using the CLI).
- You can use an SDK (software development kit)!
- Official SDKs are...
 - Java
 - .NET
 - Node.js
 - PHP
 - Python (named boto3 / botocore)
 - Go
 - Ruby
 - · C++

AWS SDK Overview

 We have to use the AWS SDK when coding against AWS Services such as DynamoDB

• Fun fact... the AWS CLI uses the Python SDK (boto3)