

# Restrict CodePipeline Access to Dev Only - Setup Guide + Verification

## Overview

- This guide configures IAM permissions so developers can only access the Dev pipeline, protecting the Production pipeline from unauthorized access.

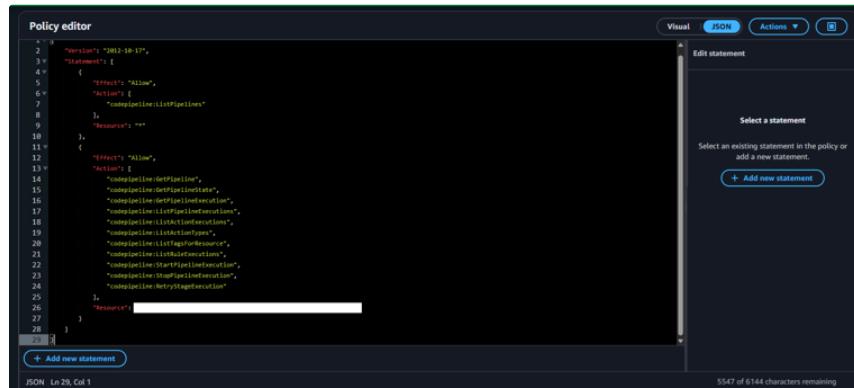
### Overview

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### Step 1: Edit IAM Policy

**i** **codepipeline>ListPipelines** does not support resource-level restrictions. It requires **"Resource": "\*"** and will show all pipelines. Instead, we restrict all other permissions to the specific Dev pipeline only.



How it should look after applying the JSON file provided below

```
1 {
2     "Version": "2012-10-17",
3     "Statement": [
4         {
5             "Effect": "Allow",
6             "Action": [
7                 "codepipeline>ListPipelines"
8             ],
9             "Resource": "*"
10        },
11        {
12            "Effect": "Allow",
13            "Action": [
14                "codepipeline:GetPipeline",
15                "codepipeline:GetPipelineState",
16                "codepipeline:GetPipelineExecution",
17                "codepipeline:ListPipelineExecutions",
18                "codepipeline:ListActionExecutions",
19                "codepipeline:ListActionTypes",
20                "codepipeline:ListTagsForResource",
21                "codepipeline:ListRuleExecutions",
22                "codepipeline:StartPipelineExecution",
23                "codepipeline:StopPipelineExecution",
24                "codepipeline:RetryStageExecution"
25            ],
26            "Resource": "*"
27        }
28 }
```

```

26         "Resource": "{CodePipeline's Pipeline ARN Value, not
27           Service role ARN}"
28       ]
29 }

```

Pipeline name  
Dev-Helprr-Backend

Pipeline ARN  
arn:aws:codepipeline:us-east-1:123456789012:Dev-Helprr-Backend

Service role ARN  
arn:aws:iam::123456789012:service-role/AWSCodePipelineServiceRole-Dev-Helprr-Backend

Version  
1

Pipeline type  
V2

Execution mode  
QUEUED

Copy Pipeline ARN value, not Service role ARN

## Step 2: Verify Access Restriction

- Pipeline List View:** `AccessDeniedException` appears for `Prod-Helprr-Backend` because `ListPipelineExecutions` is automatically called for all visible pipelines.

Pipelines info

| Name                | Latest execution status | Latest source revisions | Latest execution starts |
|---------------------|-------------------------|-------------------------|-------------------------|
| Prod-Helprr-Backend |                         |                         |                         |
| Dev-Helprr-Backend  | Failed                  |                         | 46 minutes ago          |

AccessDeniedException user/dev-only-user is not authorized to perform: codepipeline:ListPipelineExecutions on resource: arn:aws:codepipeline:us-east-1:123456789012:Prod-Helprr-Backend because no identity-based policy allows the codepipeline:ListPipelineExecutions action

- Clicking Prod Pipeline:** User receives "Resource not available" page, confirming access is blocked.

The screenshot shows the AWS Developer Tools interface. On the left, a sidebar lists various services: Source (CodeCommit), Artifacts (CodeArtifact), Build (CodeBuild), Deploy (CodeDeploy), Pipeline (CodePipeline), and Settings. Below these are links to 'Go to resource' and 'Feedback'. The main content area displays an error message: 'Resource not available'. It states: 'The resource you are trying to view either doesn't exist in this AWS Region, or you are signed in without the permissions required to view it.' A bulleted list provides troubleshooting steps: 'Make sure you are viewing resources in the AWS Region where that resource was created. Use the Region selector to change Regions.', 'Make sure you spelled the resource name correctly. Try searching for the resource by name.', 'Make sure your session has not expired. Try signing in again and then searching for the resource. Refresh.', and 'Make sure that you are signed in with a user or role that has permissions to view resources for this service. Learn more'.

- **Clicking Dev Pipeline:** Full access - pipeline details display normally

