

<https://repost.aws/knowledge-center/image-builder-access-denied>

How do I resolve the 403 Access Denied error for my image build pipeline in EC2 Image Builder?

I want to resolve the Access Denied error for my image build pipeline in EC2 Image Builder.

Short description

Your image build pipeline might fail with a **403 Access Denied** error for the following reasons:

- The instance profile doesn't have the required AWS Identity and Access Management (IAM) permissions to access APIs or component resources.
- The instance profile role doesn't have the required **PutObject** permission to log in to Amazon Simple Storage Service (Amazon S3).
- The Amazon S3 gateway endpoint custom policy doesn't allow the **GetObject** action when you build in a private subnet.

Resolution

Add the required permissions to your instance profile

You must add the following IAM policies to the IAM role that's associated with your instance profile:

- [EC2InstanceProfileForImageBuilder](#)
- [EC2InstanceProfileForImageBuilderECRContainerBuilds](#)

If you use a custom policy, then add the required permissions to your custom policy. To attach a policy, see the **Attach policy** section of [AWS Identity and Access Management \(IAM\)](#).

Add the required PutObject permissions for Amazon S3

The instance profile that's specified in your configuration must have the **s3:PutObject** permission for the target Amazon S3 bucket. Add the following permissions policy to the target Amazon S3 bucket:

```
{
  "Version": "2012-10-17",
  "Statement": [
```

```
{
  "Effect": "Allow",
  "Action": [
    "s3:PutObject"
  ],
  "Resource": "arn:aws:s3:::example-bucket-name/*"
}
]
```

Note: In the preceding command, replace **example-bucket-name** with your Amazon S3 bucket name.

Add the required `GetObject` permissions to your Amazon S3 gateway endpoint custom policy

If your Amazon S3 gateway endpoint policy doesn't allow Image Builder to download code or access logs, then add **`GetObject`** to the custom policy:

```
{
  "Effect": "Allow",
  "Action": [
    "s3:GetObject"
  ],
  "Resource": "arn:aws:s3:::ec2imagebuilder*"
}
```