

# Configure Logstash to Access S3 bucket using arn\_role

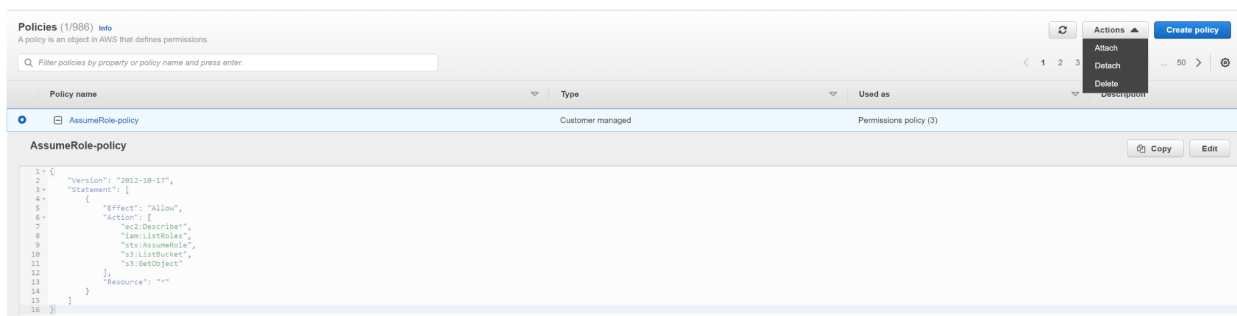
AWS: [Assume an IAM role](#)

Logstash: [S3 input plugin](#)

1. In Identity and Access Management (IAM) → Create Policy

```
{
  "Version": "2012-10-17",
  "Statement": [
    {
      "Effect": "Allow",
      "Action": [
        "ec2:Describe*",
        "iam:ListRoles",
        "sts:AssumeRole",
        "s3:ListBucket",
        "s3:GetObject"
      ],
      "Resource": "*"
    }
  ]
}
```

2. Attach policy to user ⇒ **monitor-user**



3. Create a new Role **"Monitor"** with the following settings

### Trust Relationship

```
{
  "Version": "2012-10-17",
  "Statement": [
    {
      "Effect": "Allow",
      "Principal": {
        "AWS": "arn:aws:iam::1111111111:user/monitor-user"
      },
      "Action": "sts:AssumeRole"
    }
  ]
}
```

Create a Policy and Attach it to the role:

```
{
  "Version": "2012-10-17",
  "Statement": [
    {
      "Effect": "Allow",
      "Action": [
        "ec2:Describe*",
        "iam:ListRoles",
        "sts:AssumeRole"
      ],
      "Resource": "*"
    }
  ]
}
```

4. Apply the following Logstash input configuration:

```
input {
  s3 {
    access_key_id => "xxxxxxxxxxxxxxxxxxxxxx"
    secret_access_key => "xxxxxxxxxxxxxxxxxxxxxx"
    bucket => "jorj-elk-test"
    region => "eu-central-1"
    role_arn => "arn:aws:iam::111111111111:role/Monitor"
  }
}
```

5. Using a local file logstash output configuration, the S3 events in the bucket were retrieved successfully using **role\_arn**

```
output {
  stdout { }
  file {
    path => '/var/log/s3-output.json'
  }
}
```

```
{"@timestamp":"2022-11-03T21:00:05.372409Z","@version":"1","message":"Logstash
arn_role test\r\n","event":{"original":"Logstash arn_role test\r\n"}}

{"@timestamp":"2022-11-03T21:00:05.429537Z","@version":"1","message":"Logstash
arn_role test\r\n","event":{"original":"Logstash arn_role test\r\n"}}

{"@timestamp":"2022-11-03T21:00:05.430188Z","@version":"1","message":"Logstash
arn_role test\r\n","event":{"original":"Logstash arn_role test\r\n"}}

{"@timestamp":"2022-11-03T21:00:05.426898Z","@version":"1","message":"Logstash
arn_role test\r\n","event":{"original":"Logstash arn_role test\r\n"}}

{"@timestamp":"2022-11-03T21:00:05.428866Z","@version":"1","message":"Logstash
arn_role test\r\n","event":{"original":"Logstash arn_role test\r\n"}}

{"@timestamp":"2022-11-03T21:00:05.429285Z","@version":"1","message":"Logstash
arn_role test\r\n","event":{"original":"Logstash arn_role test\r\n"}}
```