Getting Started

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```
        "Principal": {
          "AWS": "<PRINCIPAL_ACCOUNT_ID>"
        },
        "Action": "sts:AssumeRole",
        "Condition": {
          "StringEquals": {
            "sts:ExternalId": "<EXTERNAL_ID>"
          }
        }
      }
    ]
  }
```

2. Create your function.

Now that you have an IAM role in your AWS account, you can create your source or destination function. Segment recommends you to use function settings to make the IAM role configurable. This allows you to use different roles for different instances of your function and to securely store your external ID value by making it a “sensitive” setting. Here are the required settings:

- **IAM Role ARN**: A string setting that is the ARN for the IAM role above. For example, `arn:aws:iam::1234567890:role/my-secure-role`.
- **IAM Role External ID**: A sensitive string setting that is the external ID for your IAM role.

Below is an example destination function that uploads each event received to an S3 bucket (configured using additional “S3 Bucket” and “S3 Bucket Region” settings). It uses the built-in local cache to retain S3 clients between requests to minimize processing time and to allow different instances of the function to use different IAM roles.

```
async function getS3(settings) {
  const ttl = 30 * 60 * 1000; // 30 minutes
  const key = [settings.iamRoleArn, settings.s3Bucket].join();

  return cache.load(key, ttl, async () => {
    const sts = new AWS.STS();

    const opts = await sts
      .assumeRole({
        RoleArn: settings.iamRoleArn,
        ExternalId: settings.iamRoleExternalId,
        RoleSessionName: 'segment-function'
      })
      .promise()
      .then(data => {
        return {
          region: settings.s3BucketRegion,
          accessKeyId: data.Credentials.AccessKeyId,
          secretAccessKey: data.Credentials.SecretAccessKey,
          sessionToken: data.Credentials.SessionToken
        };
      });

    return new AWS.S3();
  });
}

async function onTrack(event, settings) {
  const s3 = await getS3(settings);

  return s3
    .putObject({
      Bucket: settings.s3Bucket,
      Key: `${event.type}/${Date.now()}.json`,
      Body: JSON.stringify(event)
    })
    .promise()
    .then(data => {
      console.log(data);
    });
}
```

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