**# AWS Config with S3: A Step-by-Step Guide**

**Introduction:**

AWS Config is a service that helps you assess, audit, and evaluate the configurations of your AWS resources. By integrating AWS Config with Amazon S3, you can store and manage configuration snapshots in a secure and scalable manner. This guide provides step-by-step instructions on setting up AWS Config with Amazon S3.

**Prerequisites:**

1. An AWS account.

2. Basic knowledge of AWS services.

**Step 1: Enable AWS Config**

1.1. Sign in to the AWS Management Console.

1.2. Open the AWS Config console.

1.3. Click "Get started" if you're using AWS Config for the first time. If you've already started, skip to step 2.

1.4. Choose the AWS resources you want to evaluate and track. This can include EC2 instances, S3 buckets, and more.

1.5. Configure recording settings, including the S3 bucket where AWS Config will store configuration snapshots.

**Step 2: Create an Amazon S3 Bucket**

2.1. If you don't have an S3 bucket for AWS Config snapshots, create one:

- Sign in to the AWS Management Console.

- Open the Amazon S3 console.

- Click "Create bucket."

- Follow the wizard to configure your bucket. Ensure it has the appropriate permissions for AWS Config to write to it.

2.2. Note down the S3 bucket name and region as you'll need it in the next steps.

**Step 3: Set Up AWS Config to Deliver Configuration Snapshots to S3**

3.1. In the AWS Config console, click on "Settings."

3.2. Under "AWS Config settings," find "Amazon S3 bucket" and click "Edit."

3.3. Enter the name of the S3 bucket you created in step 2.

3.4. Choose the desired frequency for delivering configuration snapshots to S3 (e.g., hourly, daily).

3.5. Optionally, configure AWS Config to encrypt the snapshots using AWS Key Management Service (KMS) for enhanced security.

3.6. Click "Save."

**Step 4: Configure S3 Bucket Policies (Optional)**

4.1. If you want to restrict access to the S3 bucket, you can create and attach an S3 bucket policy.

4.2. Go to the Amazon S3 console, select your bucket, and navigate to the "Permissions" tab.

4.3. Add a bucket policy that defines who can access the configuration snapshots. Here's a simple example:

```json

{

"Version": "2012-10-17",

"Statement": [

{

"Effect": "Allow",

"Principal": "",

"Action": "s3:GetObject",

"Resource": "arn:aws:s3:::your-config-bucket/"

}

]

}

```

Replace "your-config-bucket" with your S3 bucket name.

**Step 5: Review and Monitor Configurations**

5.1. AWS Config will now start recording configurations and delivering snapshots to the S3 bucket.

5.2. You can review the configuration history and resource timeline in the AWS Config console.

Conclusion:

By following this guide, you've successfully set up AWS Config to deliver configuration snapshots to an Amazon S3 bucket. This integration enables you to assess and track the configurations of your AWS resources over time, helping you maintain compliance and improve security in your AWS environment.