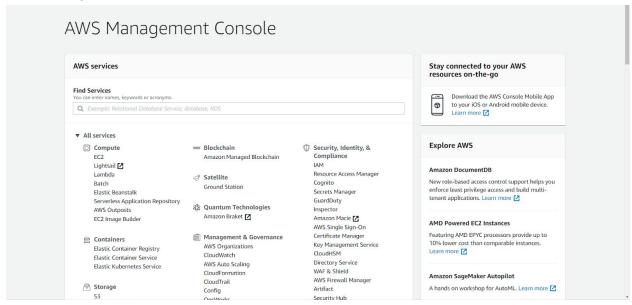
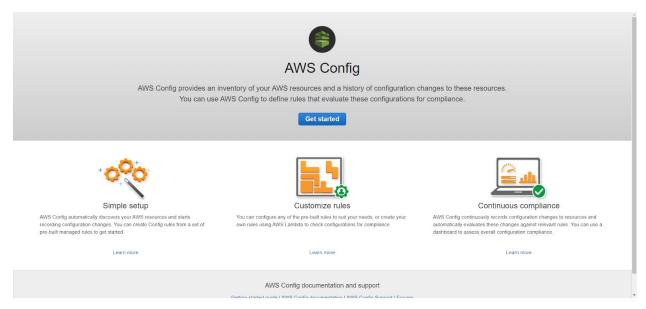
Module 2 Lab: AWS Config & S3 Rule

AWS Management Console

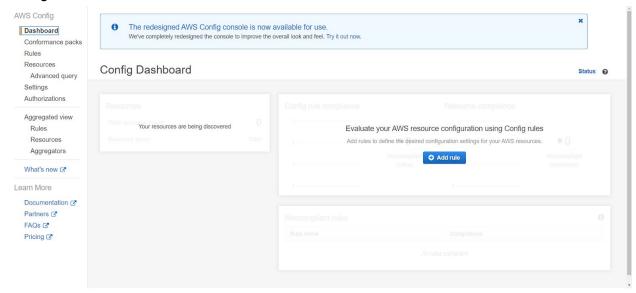


Starting from the AWS Management Console, select AWS Config

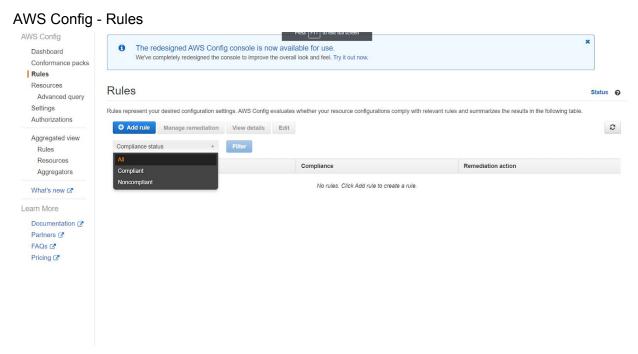


Since this is the first time starting AWS Config, this welcome screen is displayed.

Config Dashboard

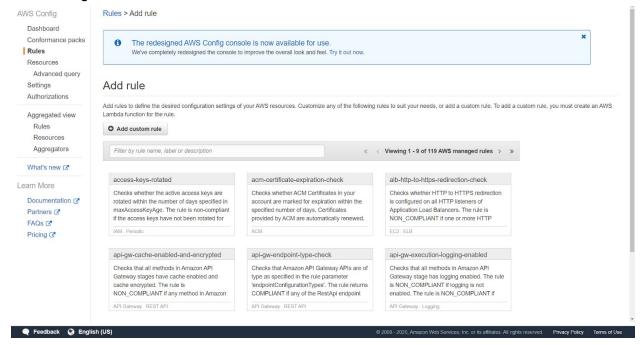


After selecting the S3 bucket (cali818), enabling SNS, and creating a service role for config, the Config Dashboard is activated.



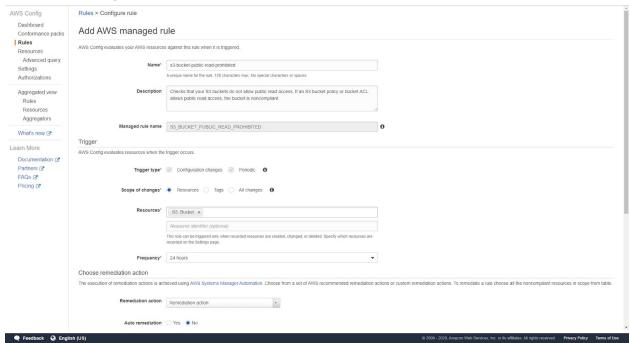
During the setup step for AWS Config, no Rules were set in place. This can be done after AWS Config is activated.

AWS Config - Add Rule



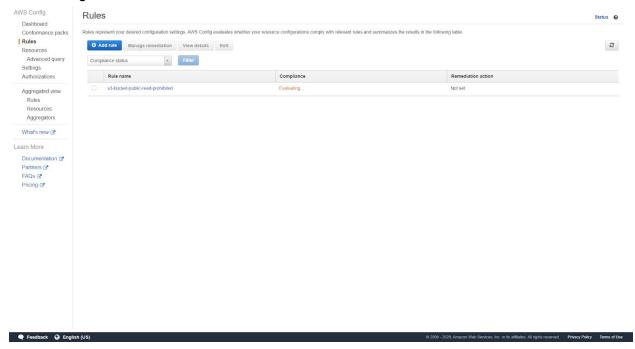
The following 119 AWS managed rules are available for monitoring.

Add AWS managed rule



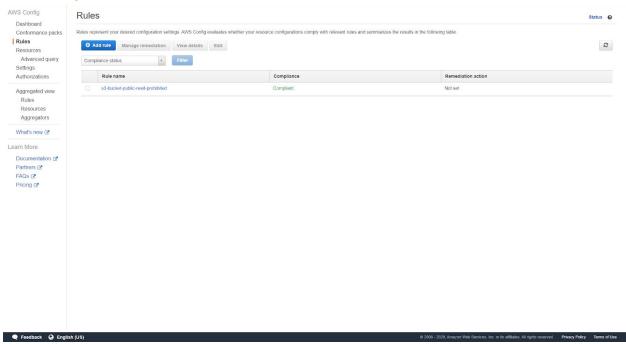
The purpose of this rule is to deny public Read access to the S3 bucket.

AWS Config - Rules



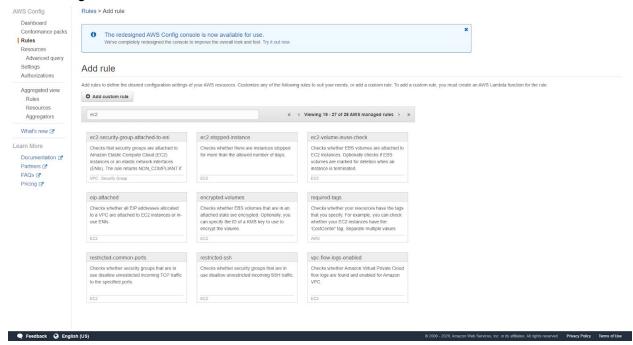
The S3 buckets are being evaluated for compliance after saving the policy.

AWS Config - Rules



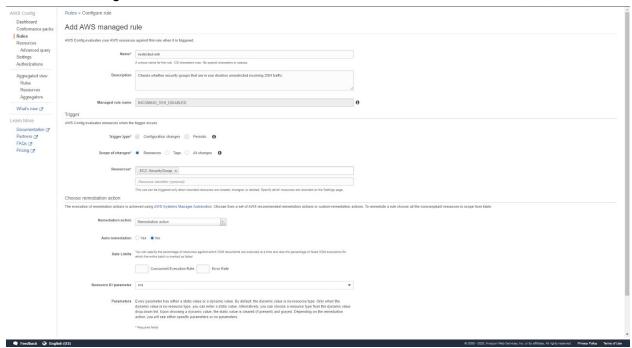
Because there are currently no public S3 buckets, the Rule returns with complaint.

AWS Config - Add Rule



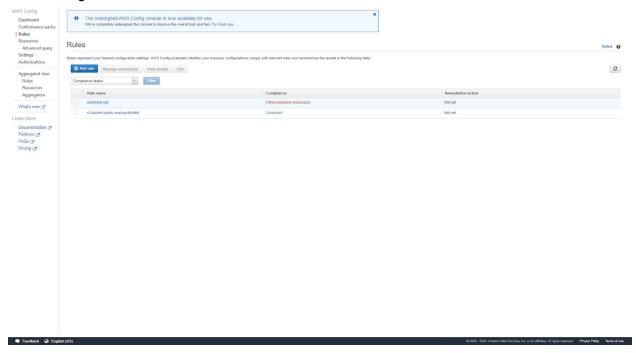
Because EC2 instances may require computers to connect to it, restricted SSH is good practice.

Add AWS managed rule



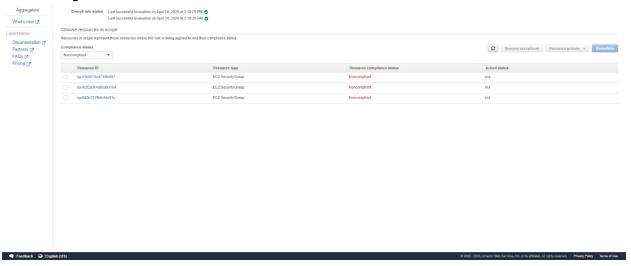
A rule to check whether security groups that are in use disallow unrestricted incoming SSH traffic.

AWS Config - Rules



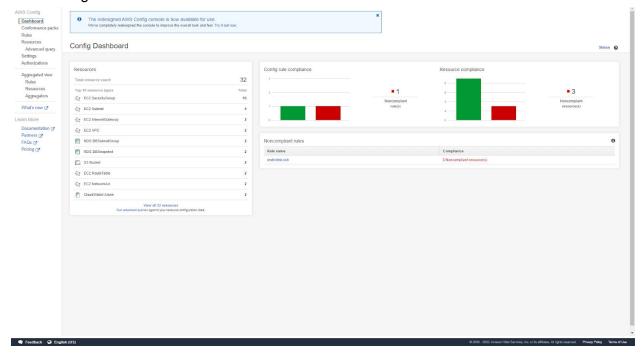
After enabling restricted-ssh, there are 3 noncompliant resources.

AWS Config - restricted-ssh



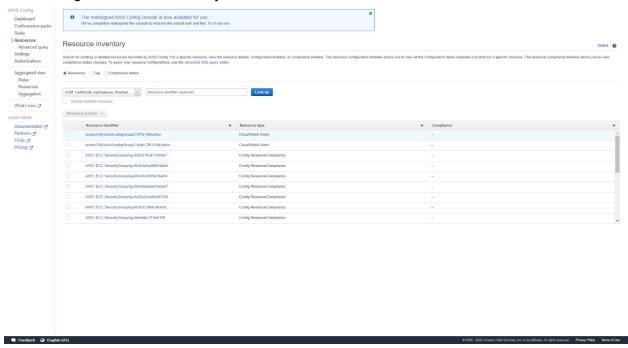
Each of the EC2 SecurityGroups are noncompliant.

AWS Config - Dashboard



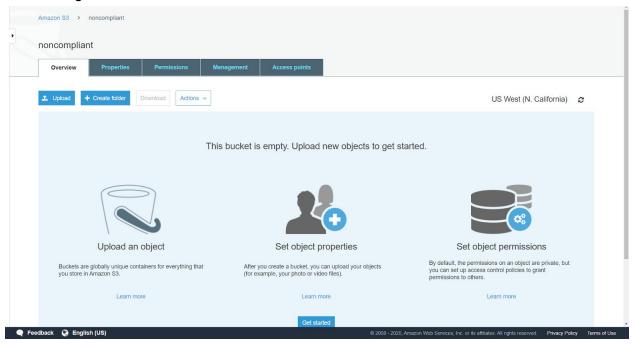
All non compliant resources are listed.

AWS Config - Resource Inventory



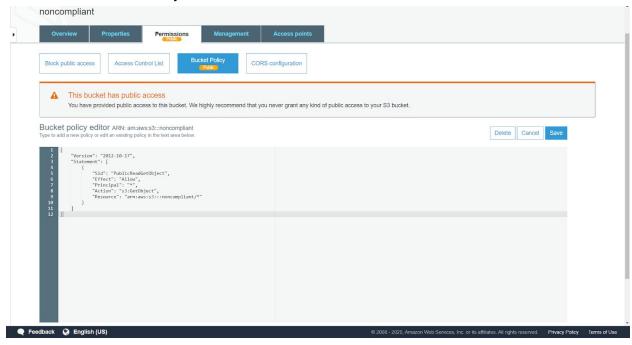
All the resources of the account recorded by AWS Config.

AWS Config - Dashboard



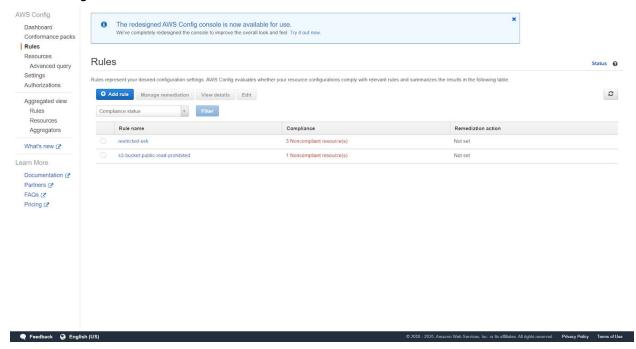
At this point there are 3 noncompliant resources (SSH related), to test for noncompliance in S3, a public S3 bucket was created.

Amazon S3 - Bucket Policy



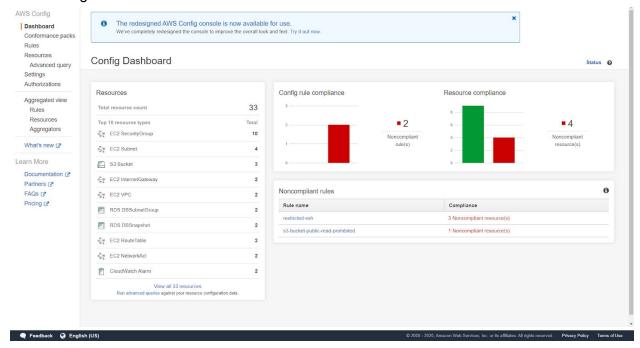
The noncompliant test bucket is issued "PublicReadGetObject". A noncompliance action according to AWS Config.

AWS Config - Rules



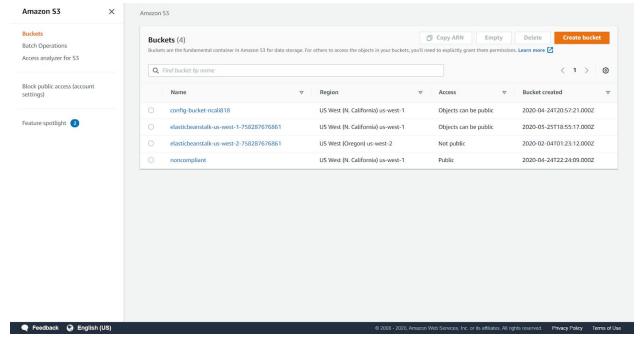
After about fifteen minutes, the noncompliant test S3 bucket shows up in AWS Config.

AWS Config - Dashboard



Dashboard is confirming the new non-compliant S3 bucket.

Amazon S3 - Buckets



On interesting note is the elasticbean stalk bucket created from a prior assignment. Access is set to "Objects can be public", but AWS Config does not show this as a non-compliant bucket. This may cause confusion in other scenarios. Note the non-compliant test bucket as "Public".