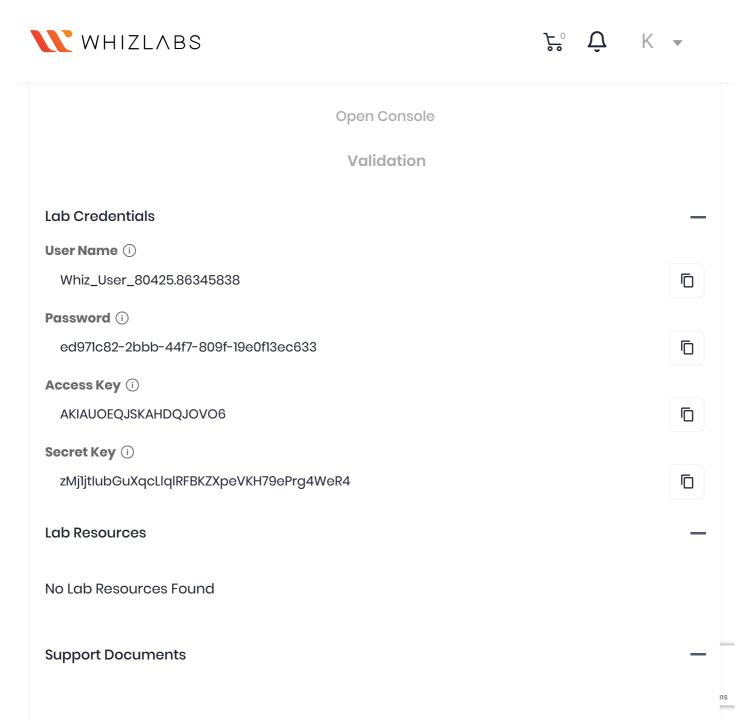
Home / AWS / Guided Lab / Check the Compliance status of Security group using AWS Config

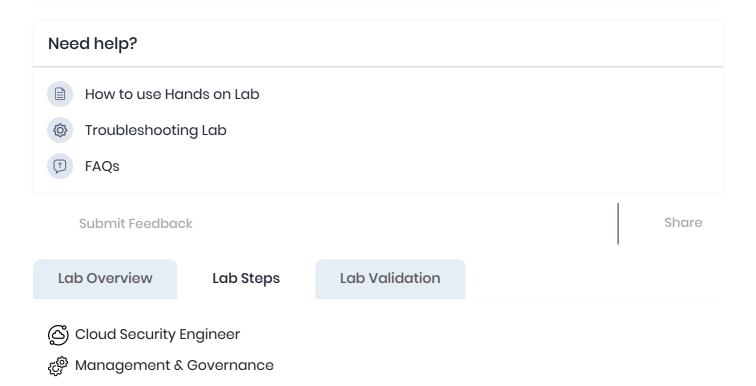
Check the Compliance status of Security group using AWS Config

Level: Fundamental

AWS Config Amazon Web Services



No Support Documents Found



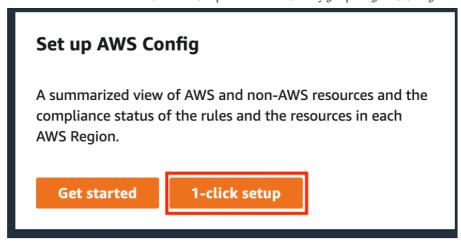
Lab Steps

Task 1: Sign in to AWS Management Console

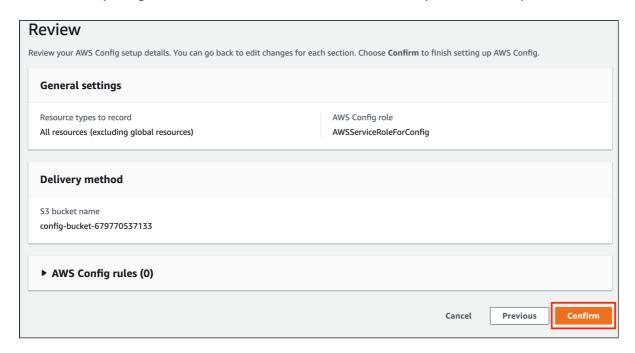
- 1. Click on the **Open Console** button, and you will get redirected to AWS Console in a new browser tab.
- 2. On the AWS sign-in page,
 - Leave the Account ID as default. Never edit/remove the 12-digit Account ID present in the AWS Console. Otherwise, you cannot proceed with the lab.
 - Now copy your Username and Password in the Lab Console to the IAM
 Username and Password in AWS Console and click on the Sign-in button.
- 3. Once Signed In to the AWS Management Console, make the default AWS Region as **US East (N. Virginia)** us-east-1.

Task 2: Setup Config with 1 Click option

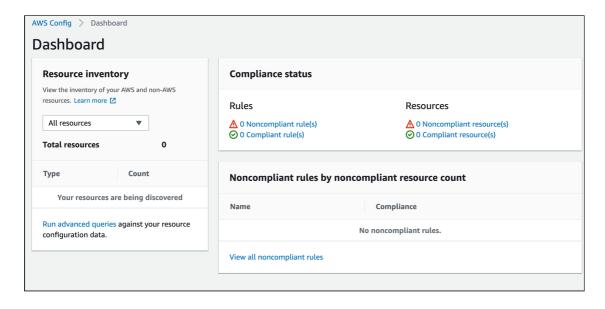
- 1. Make sure you are in the **N.Virginia** Region.
- 2. Navigate to **Config** by clicking on the **Services** menu available under the **Management & Governance** section.
- 3. On the Home page of AWS Config, click on the 1-click setup option.



4. Review everything and click on the **Confirm** button to complete the setup.



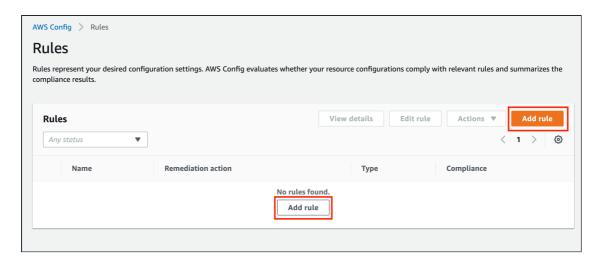
5. Once the setup is done, Config will discover all the resources present in the account.



Task 3: Create a Config Rule

1. On the left side panel, click on the Rules under AWS Config.

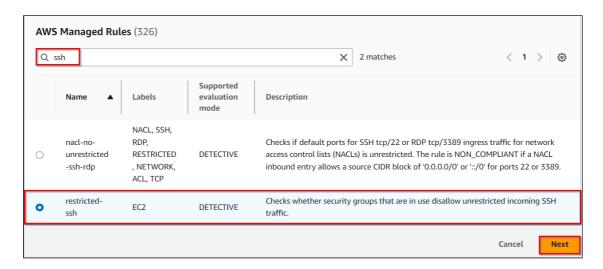
2. Click on the Add rule button.



- 3. For step-1, Specify the rule type, select the rule type and choose one of the AWS Managed rules.
 - Select rule type: Select Add AWS managed rule

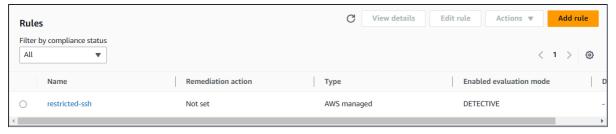


- AWS Managed Rules: In the search box, type ssh and hit enter.
- Select the rule with the name restricted-ssh and click on the Next button.



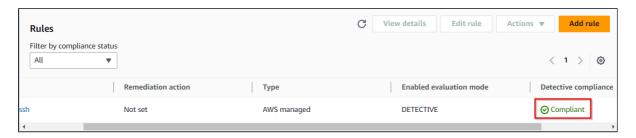
- 4. For Step-2, Configure rule, keep all the options as default, and click on the **Next** button.
- 5. For Step-3, Review and create, review the settings and click on the **Save** button.
- 6. The rule is now added to our account.





- 7. Wait for 2–3 minutes, config rule named restricted-ssh, will check all the security groups and let you know the compliance status.
- 8. Since there is only one security group present i.e. default Security group of default VPC present in the account, it will check whether it is having an SSH inbound port or not if there is an SSH inbound port, what is the source. If it is 0.0.0.0/0 then it will be marked as a non-compliant resource. By default, it is not open, so it will be a compliant resource.

Note: If the Compliance status is still not showing anything, refresh the page using the Ctrl + R option.

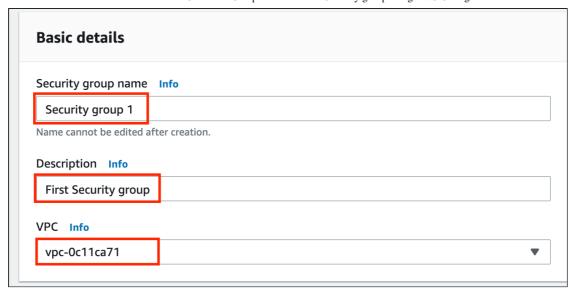


9. Let's create 2 sample security groups with the only SSH as an inbound port with 0.0.0.0/0 as the source and check whether Config is marking them as a non-compliant resource or not.

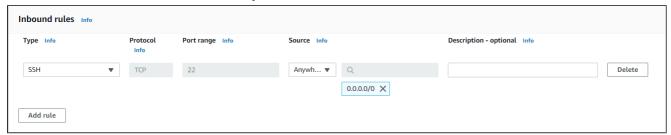
Task 4: Create first Security Group

- Navigate to EC2 by clicking on the Services menu available under the Compute section.
- 2. On the left panel menu, select the security group under the **Network & Security** section.
- 3. Click on the Create security group button.
- 4. We are going to create a Security group for the ECS cluster.
 - Security group name: Enter Security Group 1
 - Description: Enter First Security group
 - VPC: Select Default VPC

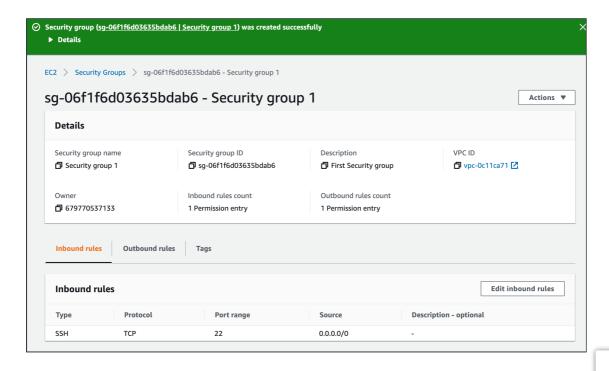




- Click on the Add rule button under Inbound rules.
 - Type: Select **SSH**
 - Source: Select Anywhere IPv4

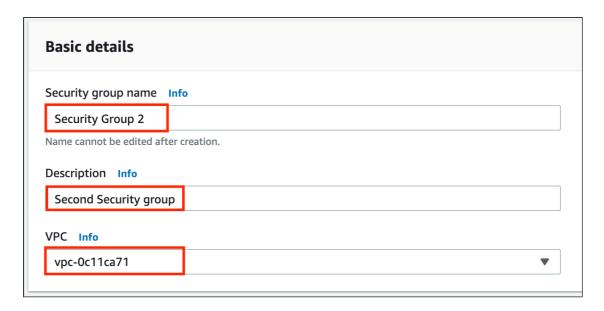


- 5. Leave everything as default and click on the Create security group button.
- 6. Security group name, Security group 1 is now created.

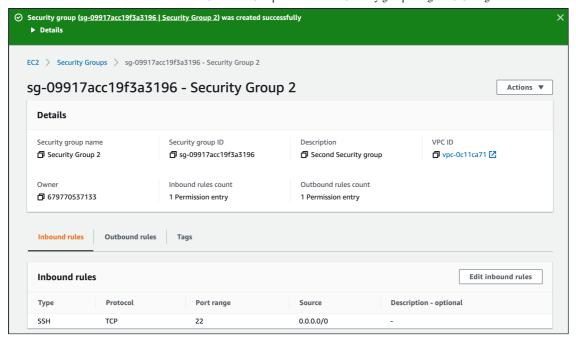


Task 5: Create second Security Group

- On the left panel menu, select the Security groups under the Network & Security section.
- 2. Click on the Create security group button.
- 3. We are going to create a Security group for the ECS cluster.
 - Security group name: Enter Security Group 2
 - Description: Enter Second Security group
 - VPC: Select **Default VPC**



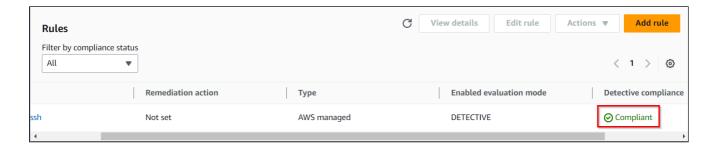
- Click on the Add rule button under Inbound rules.
 - Type: Select SSH
 - Source: Select Anywhere IPv4
- 4. Leave everything as default and click on the Create security group button.
- 5. Security group name, Security group 2 is now created.



Task 6: Test the compliance status of the Security groups

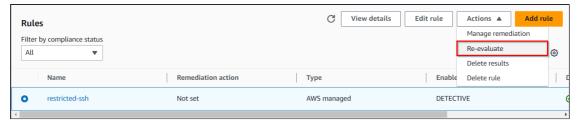
In this task, we are going to check if the security groups are marked as compliant or non-compliant by the AWS Config rule.

- 1. Navigate to **Config** by clicking on the **Services** menu available under the **Management & Governance** section.
- 2. On the left side bar, click on the **Rules**, and you will be able to see the rule is still in **compliant** status.



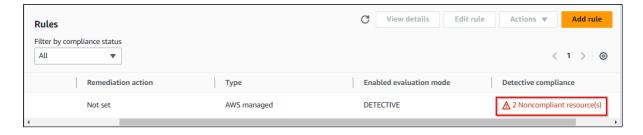
- 3. To get the latest compliance status of the rule, we need to refresh them. In terms of Config, it is called Re-evaluate.
- 4. Perform the following task to Re-evaluate:
 - Select the rule present,
 - Click the Actions button,
 - And, Choose Re-evaluate option.



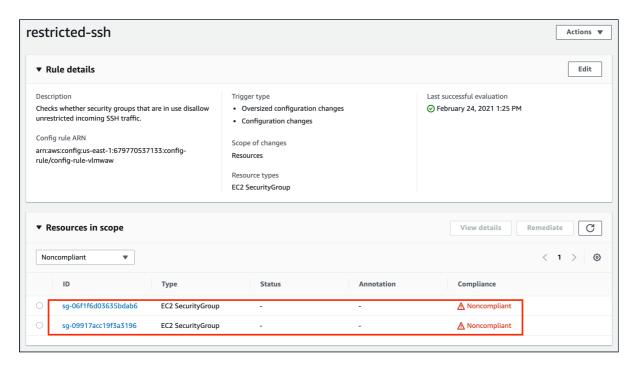


- 5. It may take up to 5 minutes for the config to get the compliance status of the created security groups.
- 6. Compliance status is now refreshed, it is showing 2 Noncompliant resource(s).

Note: If the Compliance status is still now showing anything, refresh the page using the Ctrl + R option.



7. Click on the rule name to check the Noncompliant resources.



8. Optionally, you can remove all the inbound rules and recheck the compliance status.

Do You Know?

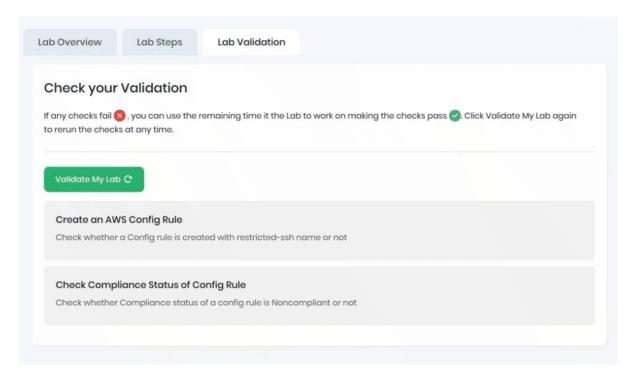
AWS Config provides a historical record of changes to your AWS resources. It allows you to view the configuration of your resources at any point in time, not just the current state.

This means that you can track changes, troubleshoot issues, and perform compliance

audits by accessing the historical configuration data. AWS Config provides a detailed timeline of resource configuration changes, making it a powerful tool for auditing and maintaining the desired state of your AWS environment.

Task 7: Validation Test

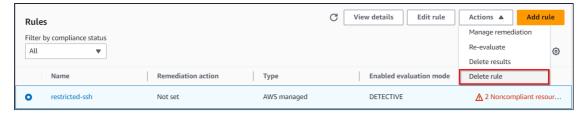
- Once the lab steps are completed, please click on the Validate button on the right side panel.
- 2. This will validate the resources in the AWS account and displays whether you have completed this lab successfully or not.
- 3. Sample output:



Task 8: Delete AWS Resources

Deleting Config rules

- 1. To delete the present config rule, perform the following task:
 - · Select the config rule,
 - Click on the Actions button,
 - Choose the **Delete rule** option.



- 2. On the confirmation pop-up, Enter Confirm and click on the Delete button.
- 3. It will take up to 2 minutes for the rule to be deleted, you can end the lab now.

Completion and Conclusion

- 1. You have successfully created and launched Amazon EC2 Instance.
- 2. You have successfully logged into the EC2 instance by SSH.
- 3. You have successfully created a webpage and published it.

End Lab

- 1. Sign out of AWS Account.
- 2. You have successfully completed the lab.
- 3. Once you have completed the steps, click on **End Lab** from your whizlabs lab console and wait till the process gets completed.

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