

Lesson 07 Demo 06

Configuring AWS Inspector for Network Reachability and Vulnerability

Objective: To configure AWS Inspector to enhance the security and compliance of the AWS environment

Tools required: AWS Management Console

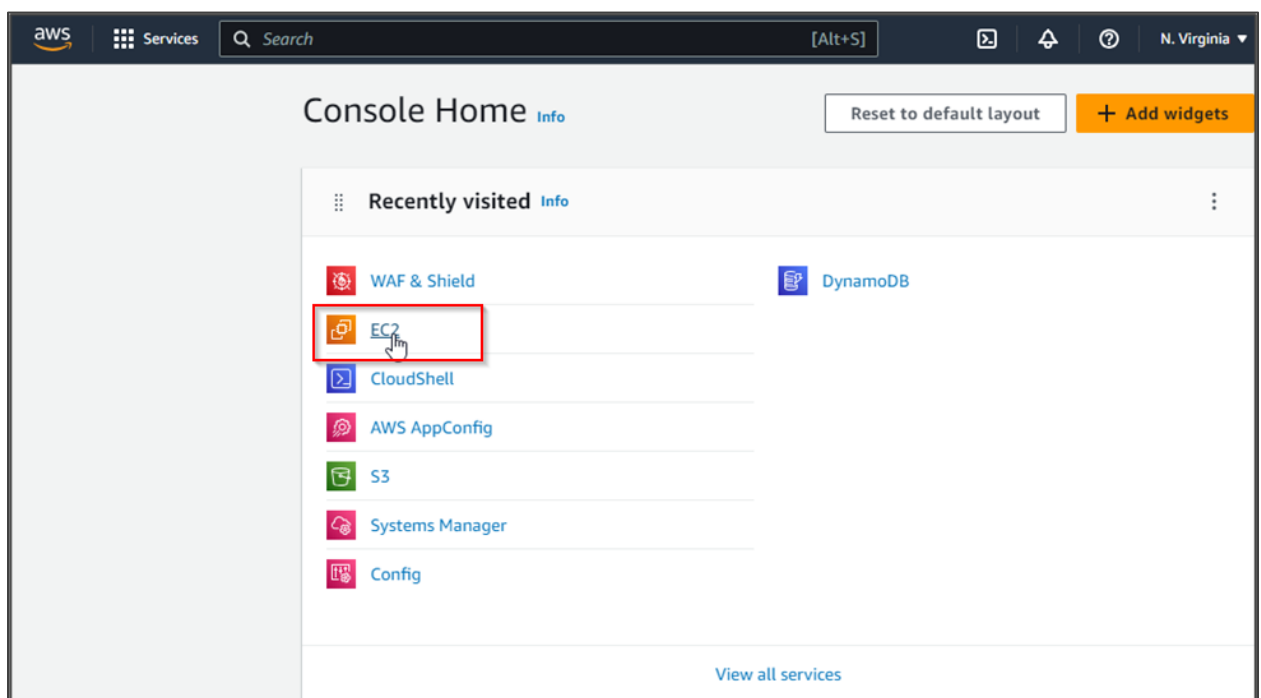
Prerequisites: AWS account

Steps to be followed:

1. Create security group and launch instances
2. Configure the AWS Inspector

Step 1: Create security group and launch instances

1.1 Navigate to the AWS Management Console, select **EC2** from the recently visited services

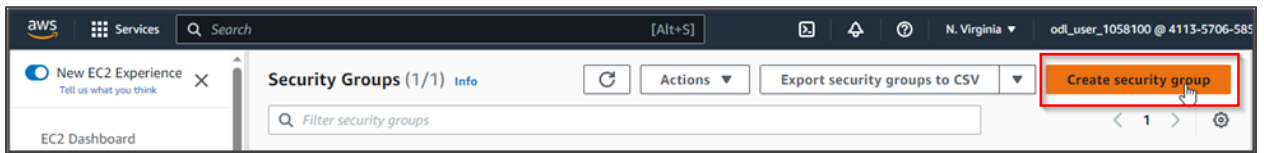


1.2 In the EC2 dashboard, click on **Security groups**

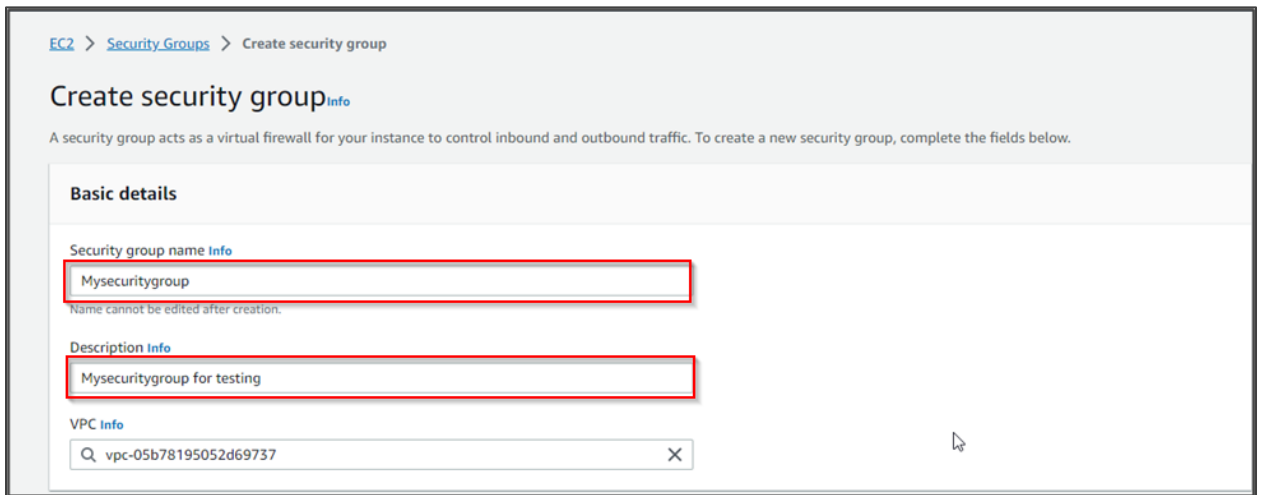
The screenshot shows the AWS Management Console interface. The top navigation bar includes the AWS logo, a 'Services' menu, and a search bar. The left sidebar contains the 'EC2 Dashboard' and a list of resources under the 'Instances' section. The 'Security groups' link is highlighted with a red box. The main content area displays a 'Resources' section with a list of EC2 resources and their counts.

Resource	Count
Instances (running)	0
Dedicated Hosts	⊗ API Error
Instances	0
Load balancers	0
Security groups	1

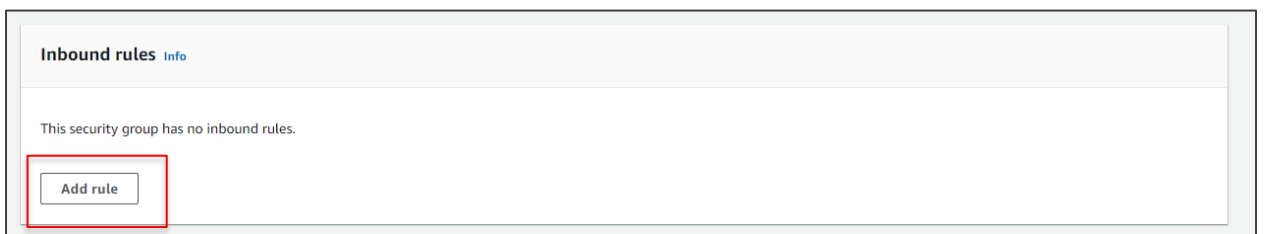
1.3 Click on **Create security group**



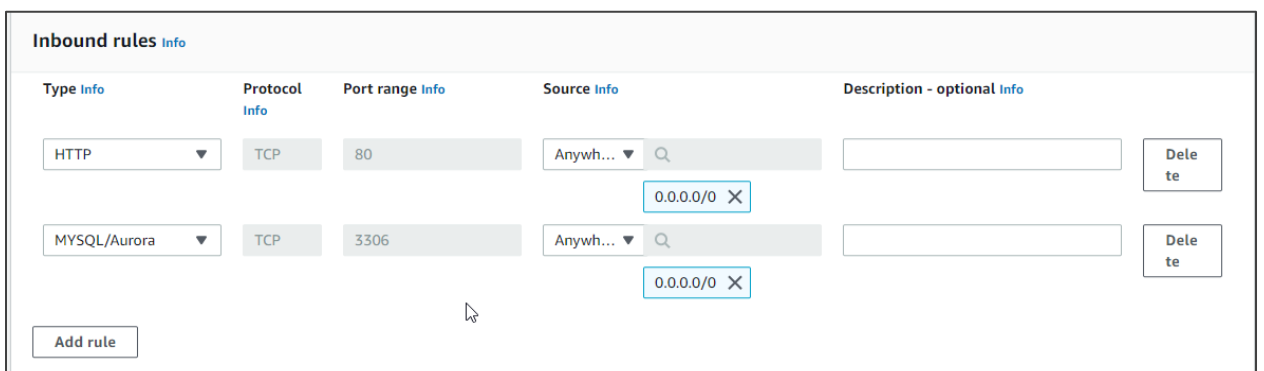
1.4 Provide the name and the description for the security group



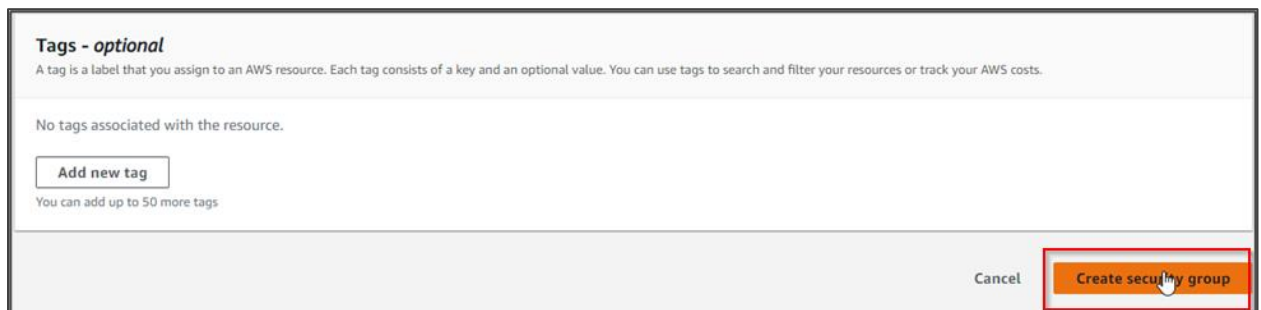
1.5 Scroll down to Inbound rules and click on **Add rule**



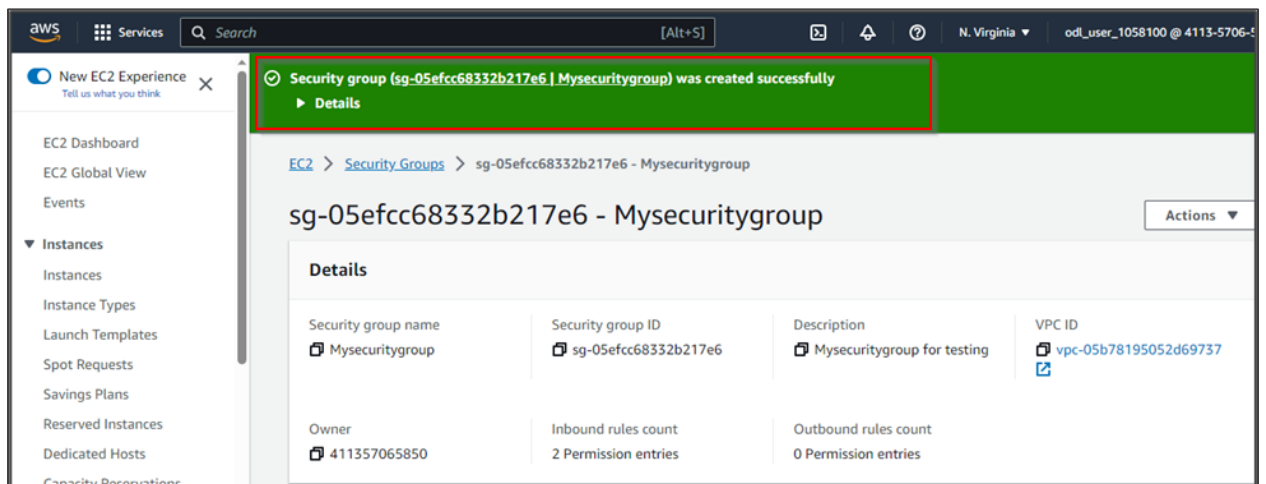
1.6 Add the Inbound rules as shown below



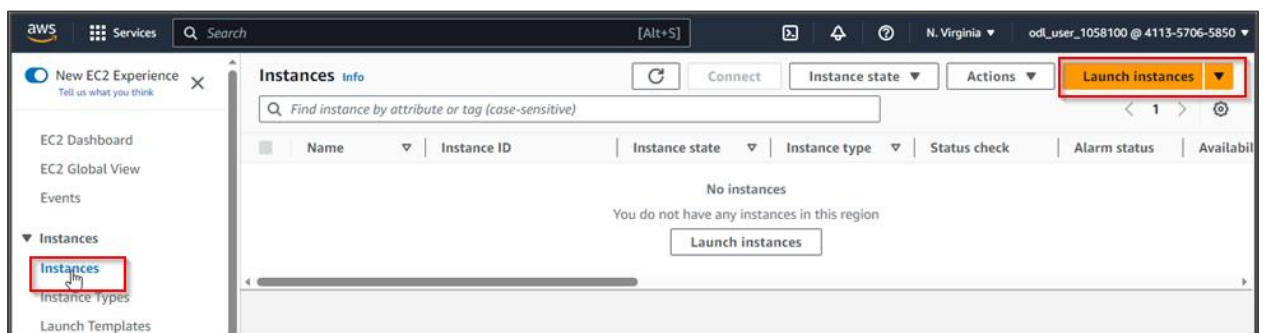
1.7 Click on **Create security group**



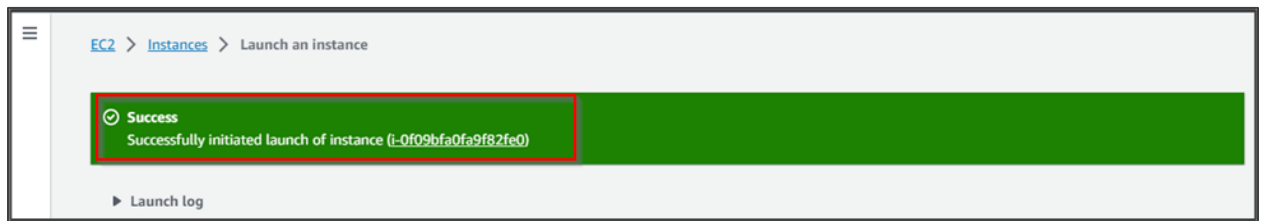
The security group is created successfully.



1.8 Navigate to the EC2 dashboard, select **Instances**, and then click on **Launch instances**



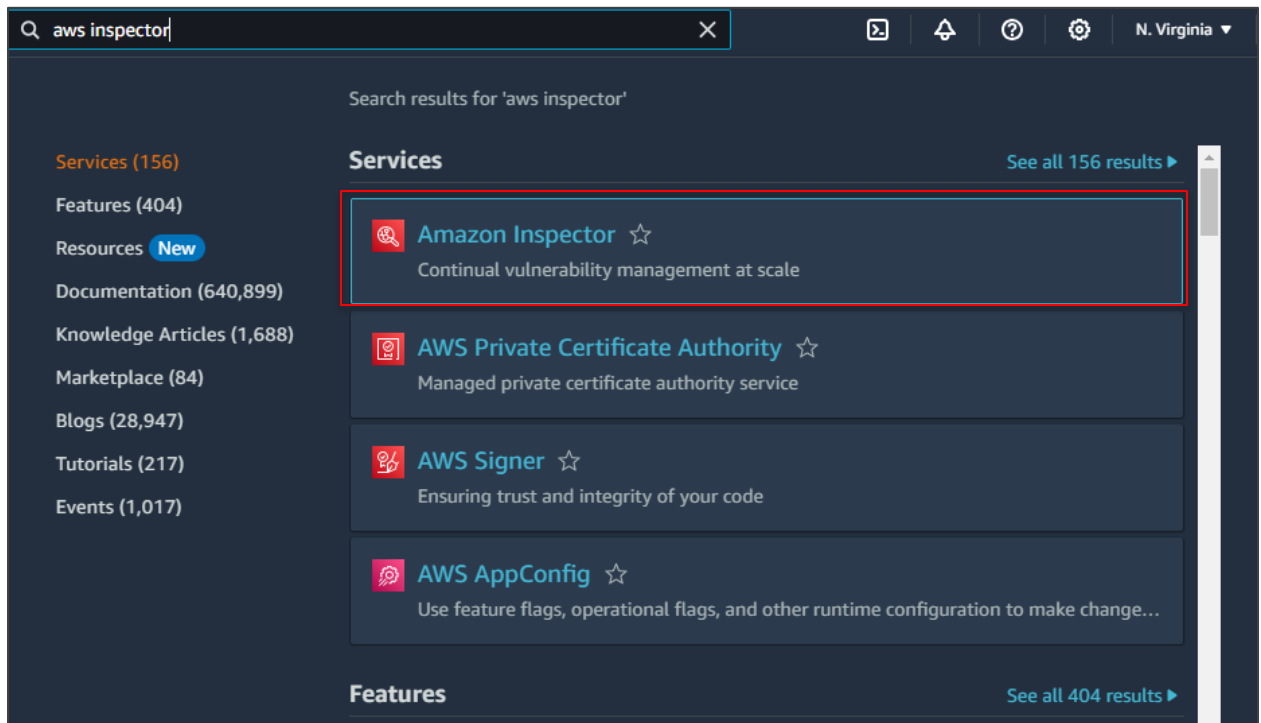
Note: Please refer to **Lesson 07 Demo 03_Creating_and_Changing_AWS_Security_Groups** to launch an EC2 instance.

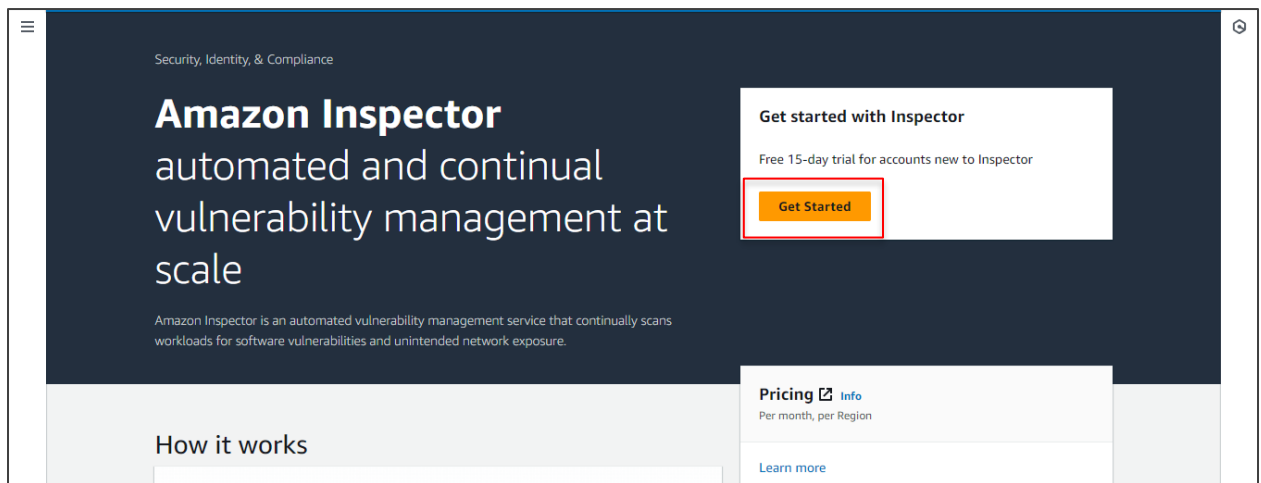


The instance is created successfully.

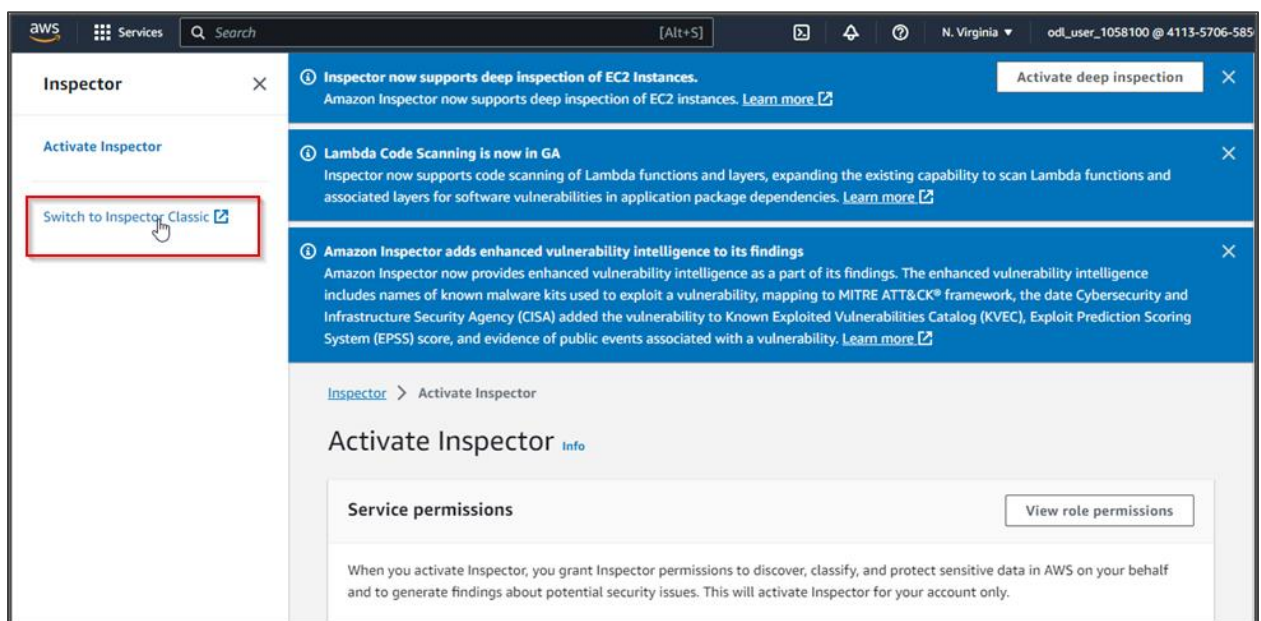
Step 2: Configure the AWS Inspector

2.1 Search for and select **Amazon Inspector** from the Services and click on **Get Started**





2.2 In the Inspector dashboard, select **Switch to Inspector Classic** from the left pane, and then click on **Help me create an Assessment**



Dashboard
Assessment targets
Assessment templates
Assessment runs
Findings
Switch to Inspector V2

Introducing the new Amazon Inspector

The new Amazon Inspector is a completely rearchitected version of the existing Inspector Classic. The new Inspector is an automated vulnerability management service that continually scans your EC2 and Container workloads for software vulnerabilities and unintended network exposure. [Learn more](#) [Start your free trial](#)

Amazon Inspector

Amazon Inspector enables you to analyze the behavior of your AWS resources and helps you identify potential security issues. [Learn more](#).

[Help me create an Assessment](#)

Notable findings

- 0 Important findings
- 0 Recent findings

Assessment status

- 0 Assessments running
- 1 Assessment run completed
- 0 Assessment runs failed

Recent Assessment Runs (Last 10)

Name	Date Run	Status
Run - Assessment-Template-Default-All-Rules - 2024-05-31T09:00:44.539Z	05/31/2024 (GMT+5)	Analysis complete

2.3 In the **Welcome to Amazon Inspector** page, select **Run once**

Services
Search
[Alt+S]
N. Virginia
odl_user_1058100 @ 4113-5706-5850

Welcome to Amazon Inspector

Amazon Inspector assessments check for security exposures and vulnerabilities in your EC2 instances. [Learn more about how Inspector functions.](#)

Inspector uses a [Service-linked Role](#) to describe your EC2 instances and network configuration.

Assessment Setup

You can use the options below to get the following assessments on all of your EC2 instances in this AWS region. Click **Run weekly** for the assessment to run at this time once a week starting now, **Run once** for a one-time assessment, or **Advanced setup** for custom assessments.

☒ **Network Assessments** (Inspector Agent is not required)

- Assessments performed:** Network configuration analysis to checks for ports reachable from outside the VPC. [Learn more](#)
- Optional Agent:** If the Inspector Agent is installed on your EC2 instances, the assessment also finds processes reachable on port. [Learn more about Inspector Agent](#)
- Pricing:** Pricing for **network assessments** is based on the monthly volume of instance-assessments, where an instance-assessment denotes a successful assessment of an instance. For example, for 100 instances assessed weekly, the monthly cost would be around \$61/month. [Learn more](#)

☒ **Host Assessments** (Inspector Agent is required)

- Assessments performed:** Vulnerable software (CVE), host hardening (CIS benchmarks), and security best practices. [Learn more](#)
- Agent Deployment:** Inspector assessments require an agent to be installed on your EC2 instances. We will automatically install the agent for instances that allow [System Manager Run Command](#). [Learn more about Inspector Agent](#) and [how to manually install agent](#).
- Pricing:** Pricing for **host assessments** is based on the monthly volume of agent-assessments, where an agent-assessment denotes a successful assessment of an instance. For example, for 100 instances assessed weekly, the monthly cost would be around \$120/month. [Learn more](#)

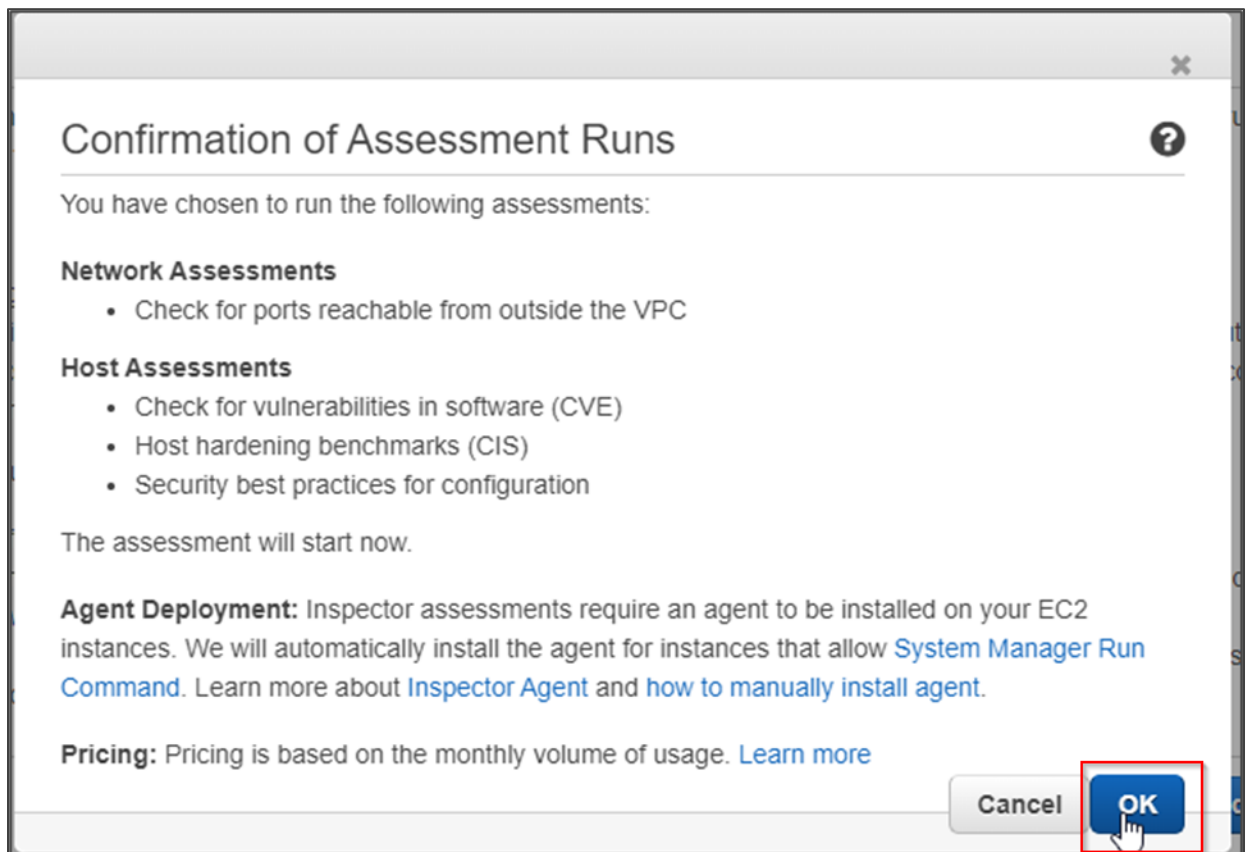
Run weekly (recommended)

Run once

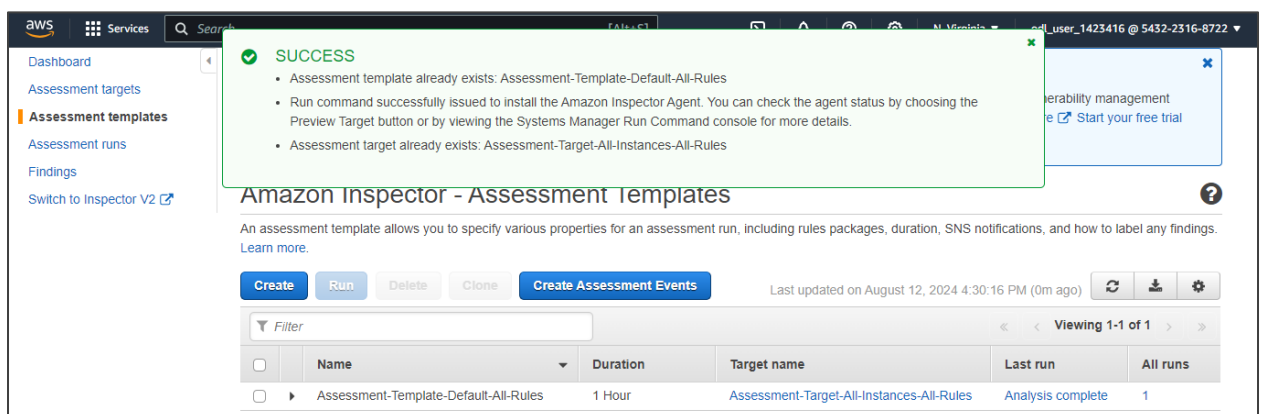
Advanced setup

Cancel

2.4 Select **OK** from the pop-up window



The setup for Amazon Inspector is completed.



2.5 Select **Findings** from the left navigation pane in the Inspector dashboard to view the severity in the Inspector

Amazon Inspector - Findings

Findings are potential security issues discovered after Amazon Inspector runs an assessment against a specified assessment target. [Learn more.](#)

[Add/Edit attributes](#) Last updated on August 12, 2024 4:30:54 PM (0m ago)

Filter

	Severity	Date	Finding	Target	Template	Rules Pac
<input type="checkbox"/>	Low	05/31/2024 ...	On instance i-0b1881d4bb211e781, TCP port 80 w...	Assessment-Targe...	Assessment-Temp...	Network Ri
<input type="checkbox"/>	Informational	05/31/2024 ...	Aggregate network exposure: On instance i-0b188...	Assessment-Targe...	Assessment-Temp...	Network Ri

Max records per page: 25

* refresh browser to reflect change

2.6 Select **Assessment runs** from the left navigation pane to view the template name and its status

Amazon Inspector - Assessment Runs

An assessment run is the process of discovering potential security issues through the analysis of your assessment target's behavior against selected rules packages. [Learn more.](#)

[Run](#) [Cancel](#) [Delete](#) Last updated on September 5, 2023 1:29:53 PM (0m ago)

Filter

	Start time	Status	Template name	Findings	Findings by ...	Exclusions	Reports
<input type="checkbox"/>	Today at 1:27 ...	Collecting data	Assessment-T...	0		1	

By following these steps, you have successfully configured AWS Inspector to enhance the security and compliance of the AWS environment.