AWS inspector, Shield and WAF

AWS inspector:

Checks the vulnerability and potential security threats of your ec2 machine

An AWS service to test the network accessibility if your amazon ec2 instances and security state of your application that run on that instances

Example: if you have created an ec2 machine and you leave port 81 which is ftp port open ...then the inspector will tell you that this machine the port is enabled via which the hacker might get inside your system

- AWS inspector performs an assessment on the target ec2 instances and check for vulnerabilities and security threats
- Install an agent on target ec2 instances
- Amazon inspect will collect the information of the network and tell you the vulnerabilities which can be improvised

WAF:

Web application firewall.

Lets you monitor http and https request that are forwarded to an Amazon API gateway , cloudfront (CDN service) or an application load balancer

Shield:

Aws shield is managed DDOS protection service provided by aws to protect applications and services hosted on aws.

It provides scalable, automatic protection against DDos attacks that target web applications, Api and network infrastructure

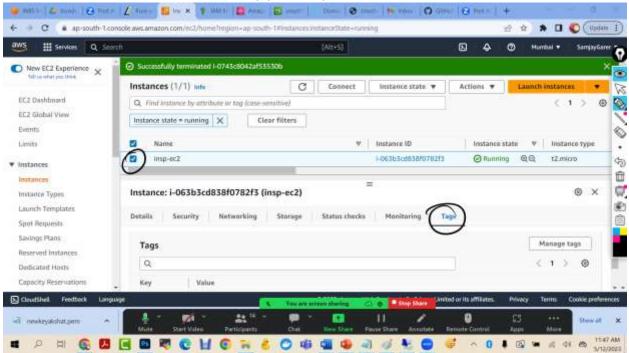
Shield is automatically enabled for Aws customer without any charge .

<mark>Lab</mark>:

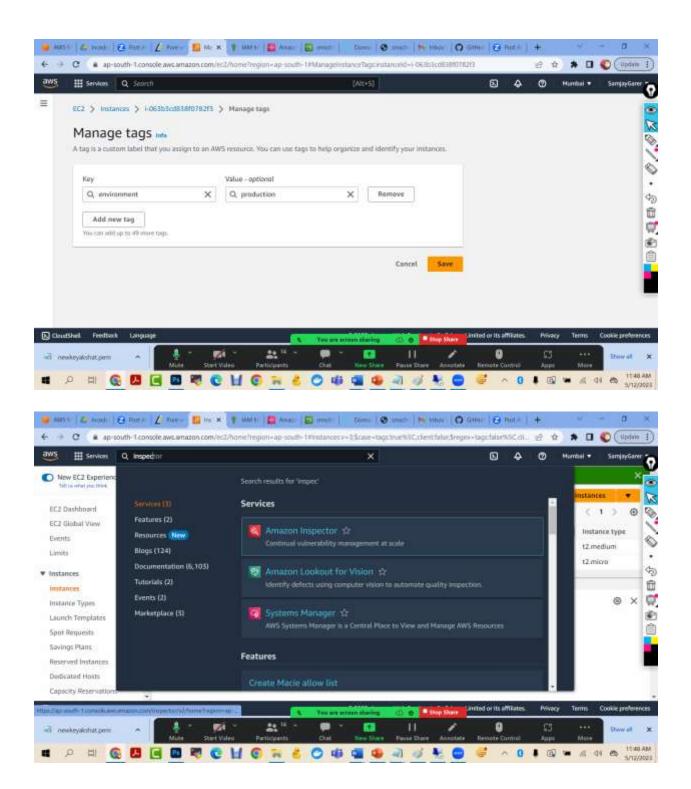
We have a production ec2 instance for which we need to perform a network accessibility check . We will leverage the amazon inspector to perfrom this n/w accessibility check .,

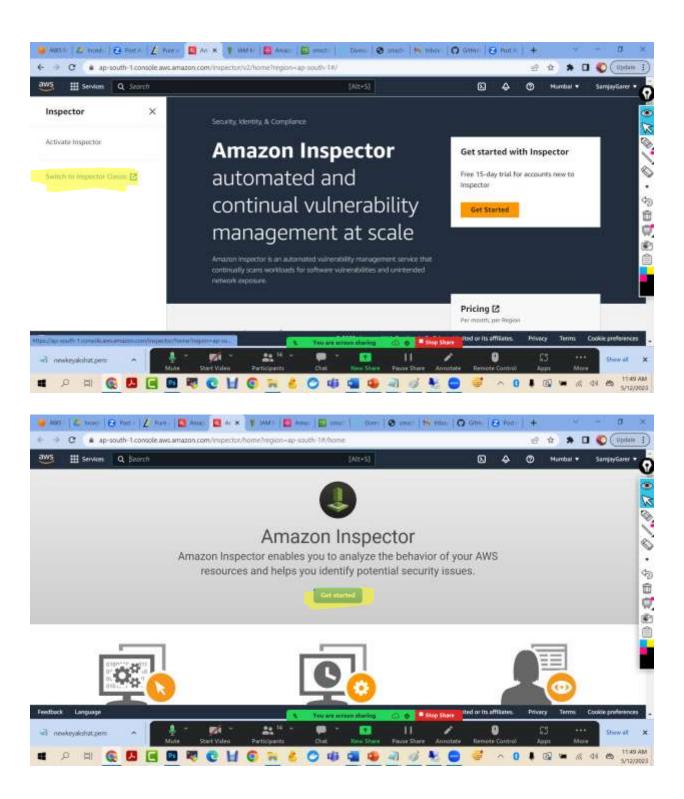
To induce security threat we will open port 21 on our ec2 instance. Port 21 is associated with FTP and it is generally not recommended to keep it open on your production instances.

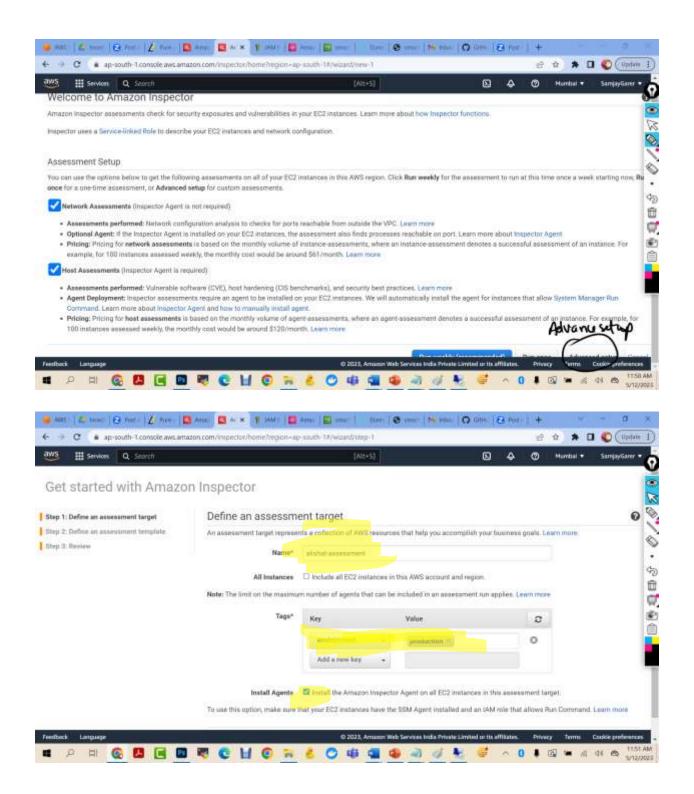
1) Launch amazon linux ec2 machine and keep port 21 open (inbound rules)

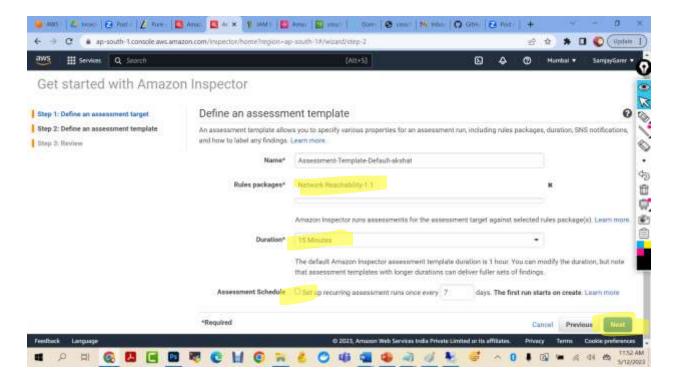


Add tags to the taget groupkey: environment and value: production



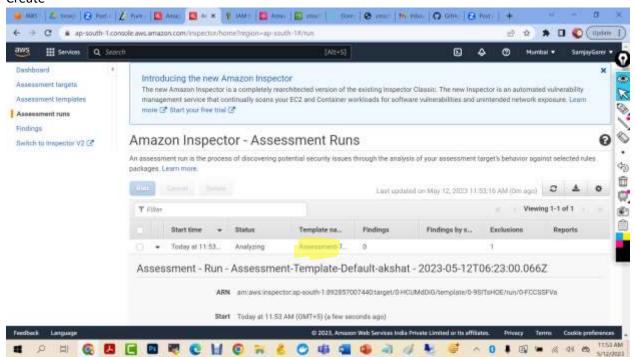


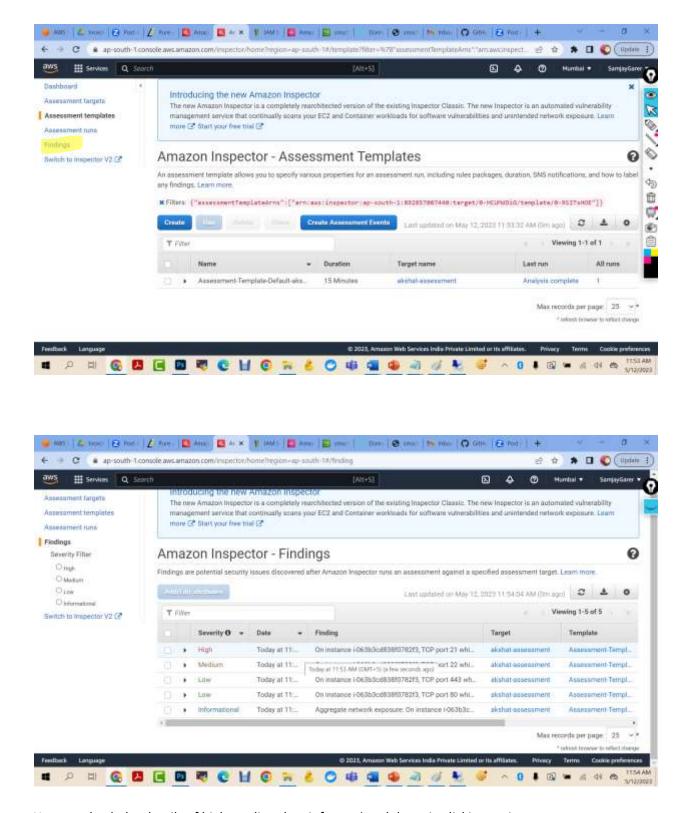




Uncheck the assessment schedule

Create





You can check the details of high medium low informational data via clicking on it