

AWS CloudSpace Academy Class promotion:

AWS Cloud & DevOps Engineer 2025

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Course:IAAC AWS CLOUDFORMATION homework

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Description

- Create an **EC2 instance** resource.
- Create a **Security Group** resource [open port 80 to the internet lock down port 22 to your personal IP address].
- Create an **Elastic IP** resource.
- Attach your Security Group and Elastic IP resources to your EC2 instance.
- Create a **Mappings** for Instance Type with the following instance type families [t2.micro, t3.micro, m1.small, m1.large].
- Create a **Parameter** for the following EC2 properties [ImageId, KeyName, SubnetId, SecurityGroupIds].
- Create an **Outputs** section in your template to display the Security Group Name or ID, EC2 Instance of your resource.

Build on top of your previous homework template.

Important:

Make use of parameters as much as possible.

Reach out to your cluster members if you encounter an issue before reaching out to instructors.

1)Here is an empty template which i will be using to do the above home work

AWSTemplateFormatVersion: 2010-09-09

Description: My First EC2 Template with SG and EIP

Parameters:

You define inputs here

Mappings:

You define lookup tables her

Resources:

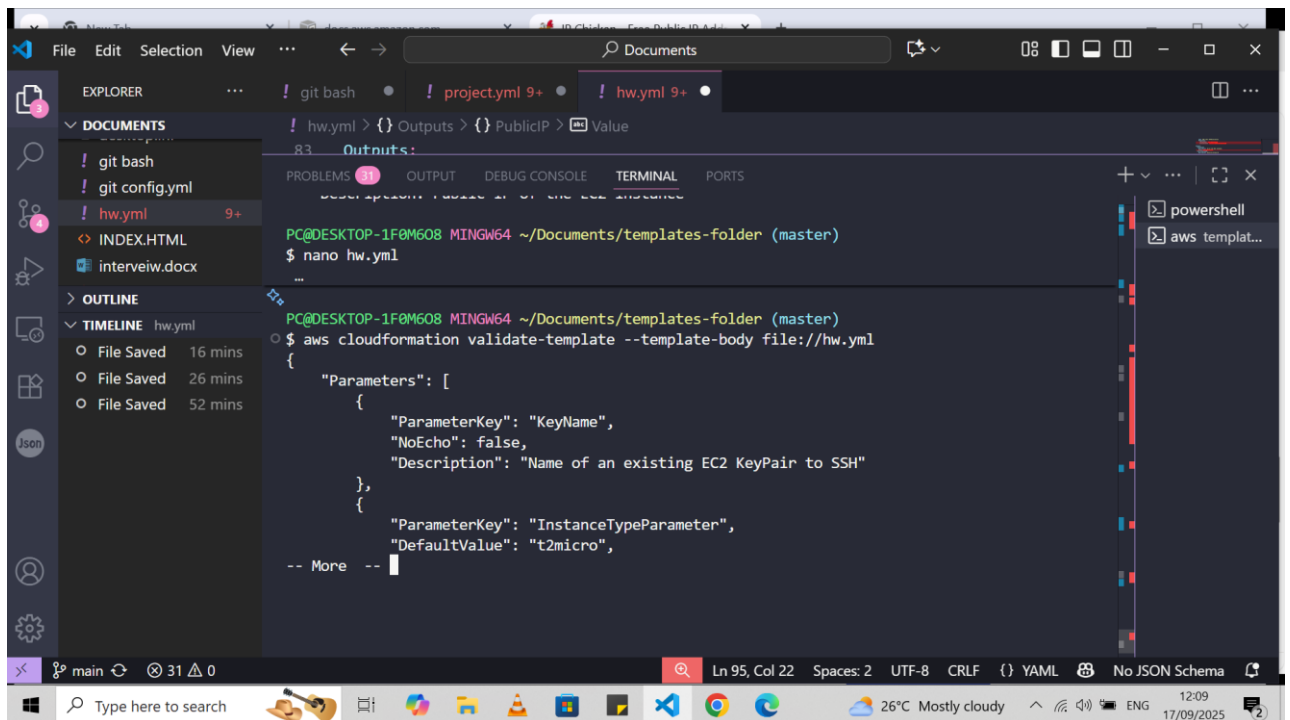
You create your AWS resources here

Outputs:

You display important info here

Manually build this template section by section:

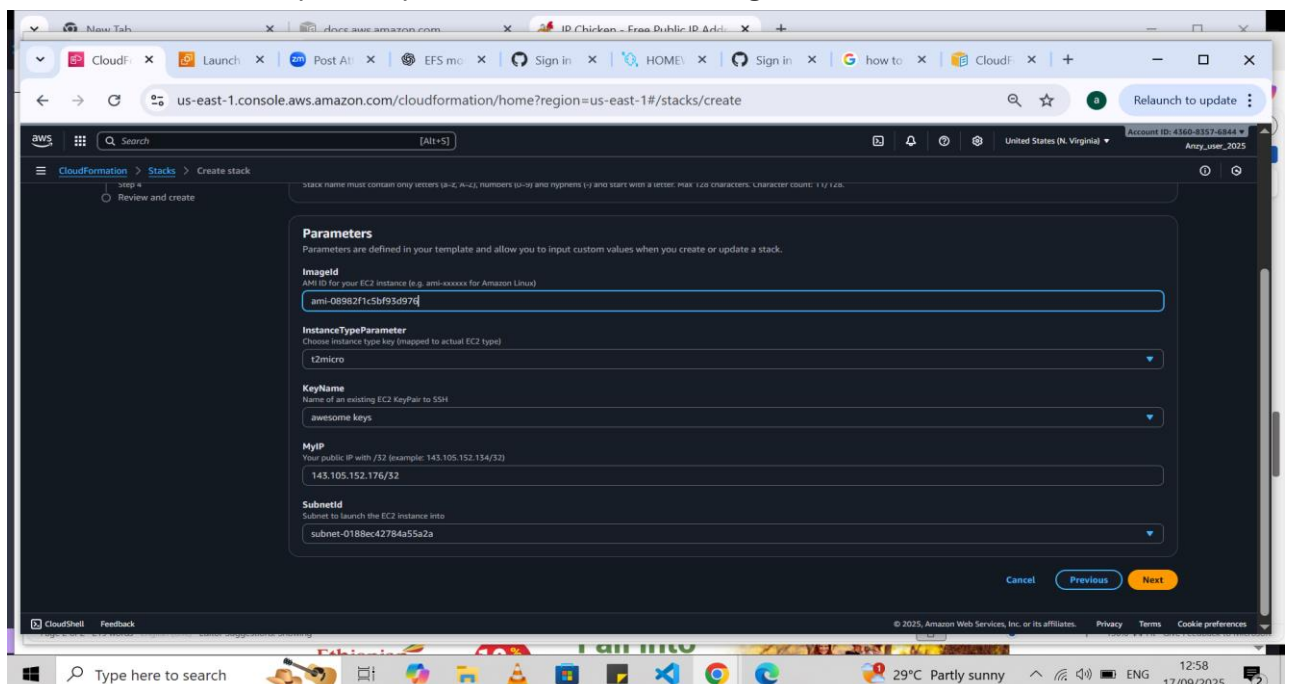
Then validate it using : `aws cloudformation validate-template --template-body file://hw.yml`



The screenshot shows a VS Code editor with a terminal window open. The terminal displays the command `aws cloudformation validate-template --template-body file://hw.yml` and its output, which includes the template body content. The template body is a YAML file named `hw.yml` with the following content:

```
Parameters:
- ParameterKey: KeyName,
  NoEcho: false,
  Description: Name of an existing EC2 KeyPair to SSH
- ParameterKey: InstanceTypeParameter,
  DefaultValue: t2micro,
```

Create a stack and input the parameters details during creation.



The screenshot shows the AWS CloudFormation console's 'Create stack' page. The parameters section is filled with the following values:

- ImageId:** ami-08982f1c5b95d974
- InstanceTypeParameter:** t2micro
- KeyName:** awesome keys
- MyIP:** 143.105.152.176/32
- SubnetId:** subnet-0188ec42784a55a2a

The 'Next' button is highlighted, indicating the user is ready to proceed with the stack creation.

us-east-1.console.aws.amazon.com/cloudformation/home?region=us-east-1#/stacks/events?stackId=arn%3Aaws%3Acloudformati...

Stacks (1)

my-hw-stack
2025-09-17 14:16:32 UTC+0100
CREATE_COMPLETE

Stack info Events Resources Outputs Parameters Template Changesets Git sync

Events (16)

Timestamp	Logical ID	Status	Detailed status	Status reason
2025-09-17 14:16:59 UTC+0100	my-hw-stack	CREATE_COMPLETE	-	-
2025-09-17 14:16:57 UTC+0100	MyInstance	CREATE_COMPLETE	-	-
2025-09-17 14:16:52 UTC+0100	MyEIPAssociation	CREATE_COMPLETE	-	-
2025-09-17 14:16:52 UTC+0100	MyEIP	CREATE_COMPLETE	-	-
2025-09-17 14:16:52 UTC+0100	MyEIPAssociation	CREATE_IN_PROGRESS	5	Resource creation Initiated
2025-09-17 14:16:49 UTC+0100	MyEIPAssociation	CREATE_IN_PROGRESS	5	-
2025-09-17 14:16:48 UTC+0100	MyInstance	CREATE_IN_PROGRESS	5	Eventual consistency check initiated

Resources:

us-east-1.console.aws.amazon.com/cloudformation/home?region=us-east-1#/stacks/resources?stackId=arn%3Aaws%3Acloudfor...

Stacks (1)

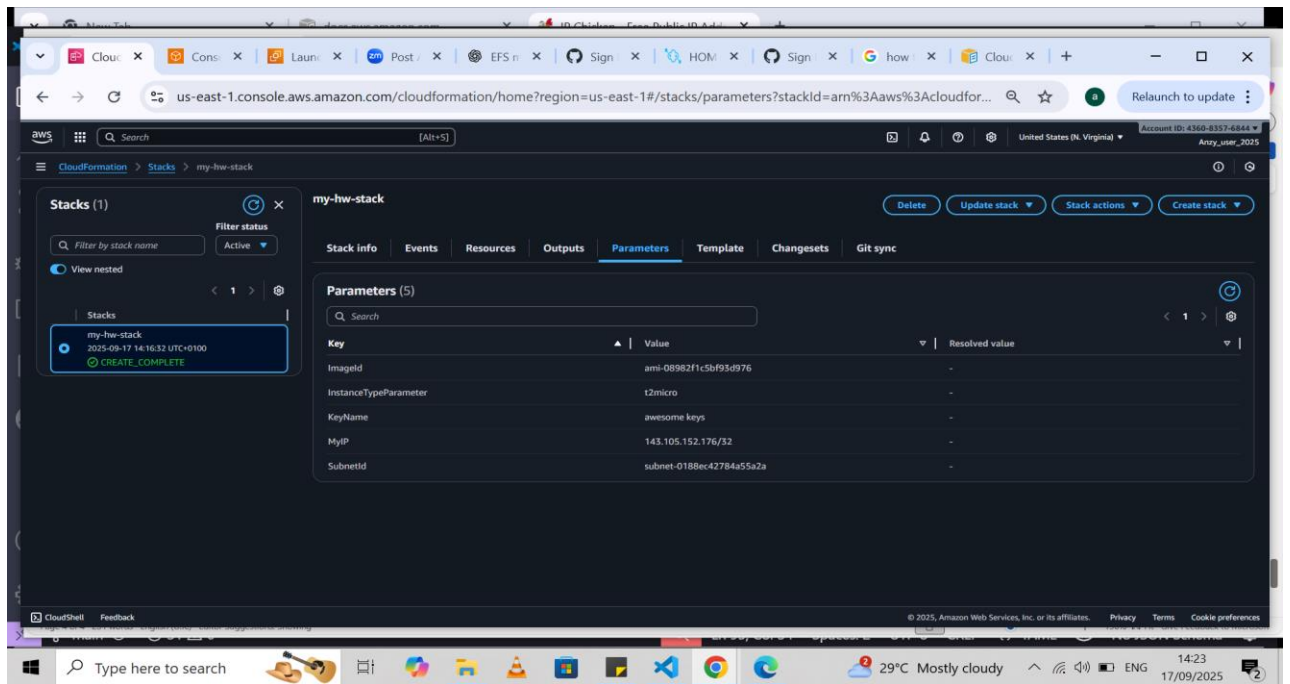
my-hw-stack
2025-09-17 14:16:32 UTC+0100
CREATE_COMPLETE

Stack info Events Resources Outputs Parameters Template Changesets Git sync

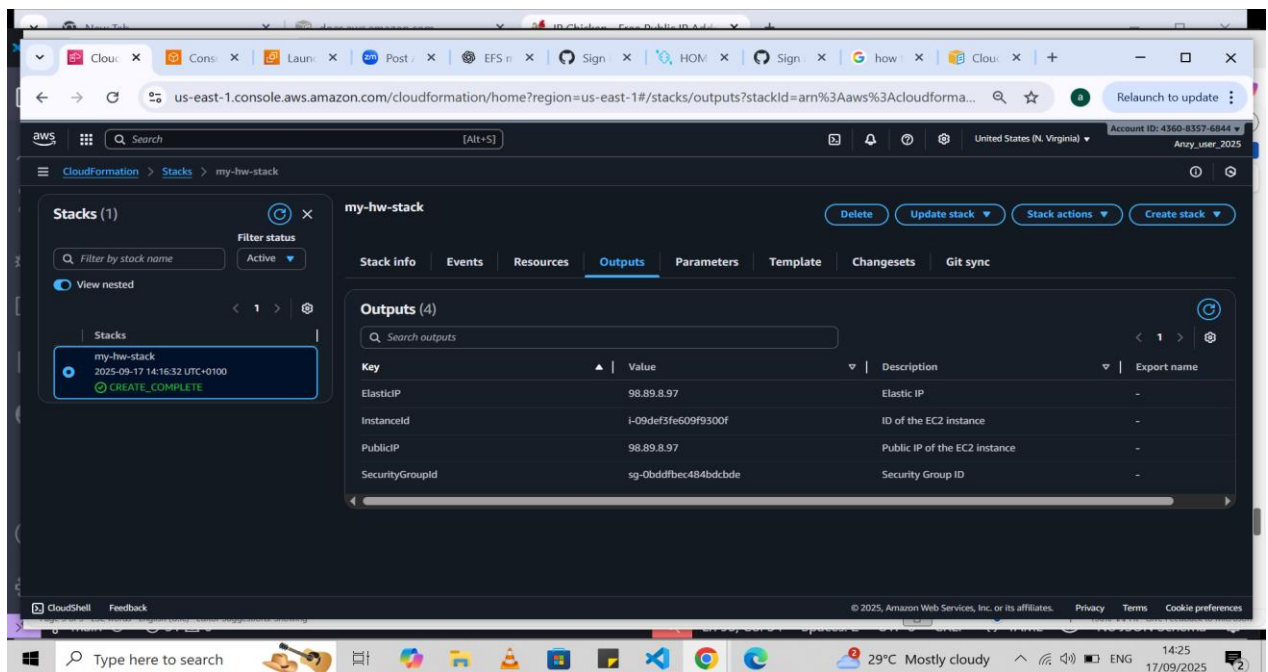
Resources (4)

Logical ID	Physical ID	Type	Status	Module
InstanceSecurityGroup	sg-0bd0f8ec484bdc0de	AWS-EC2-SecurityGroup	CREATE_COMPLETE	-
MyEIP	elb-elb-98.89.8.97	AWS-EC2-EIP	CREATE_COMPLETE	-
MyEIPAssociation	eipassoc-099e5f9058db12c9a	AWS-EC2-EIPAssociation	CREATE_COMPLETE	-
MyInstance	i-09def3fe609f9300f	AWS-EC2-Instance	CREATE_COMPLETE	-

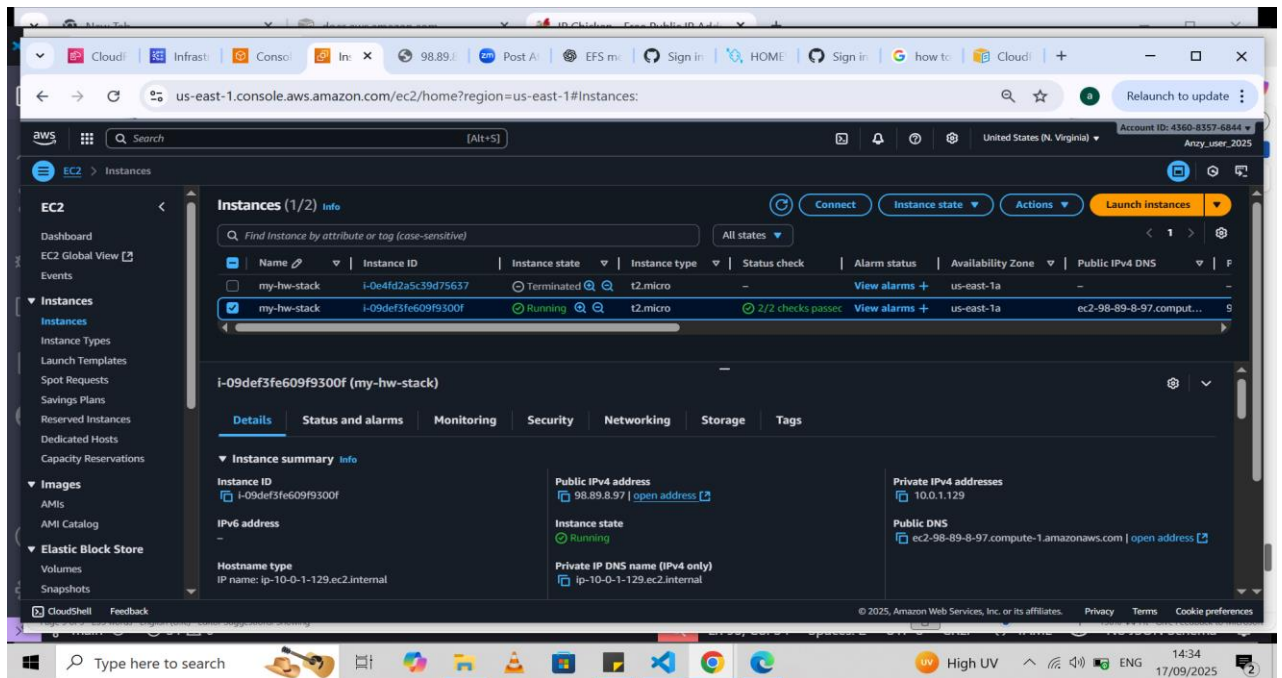
Parameters:



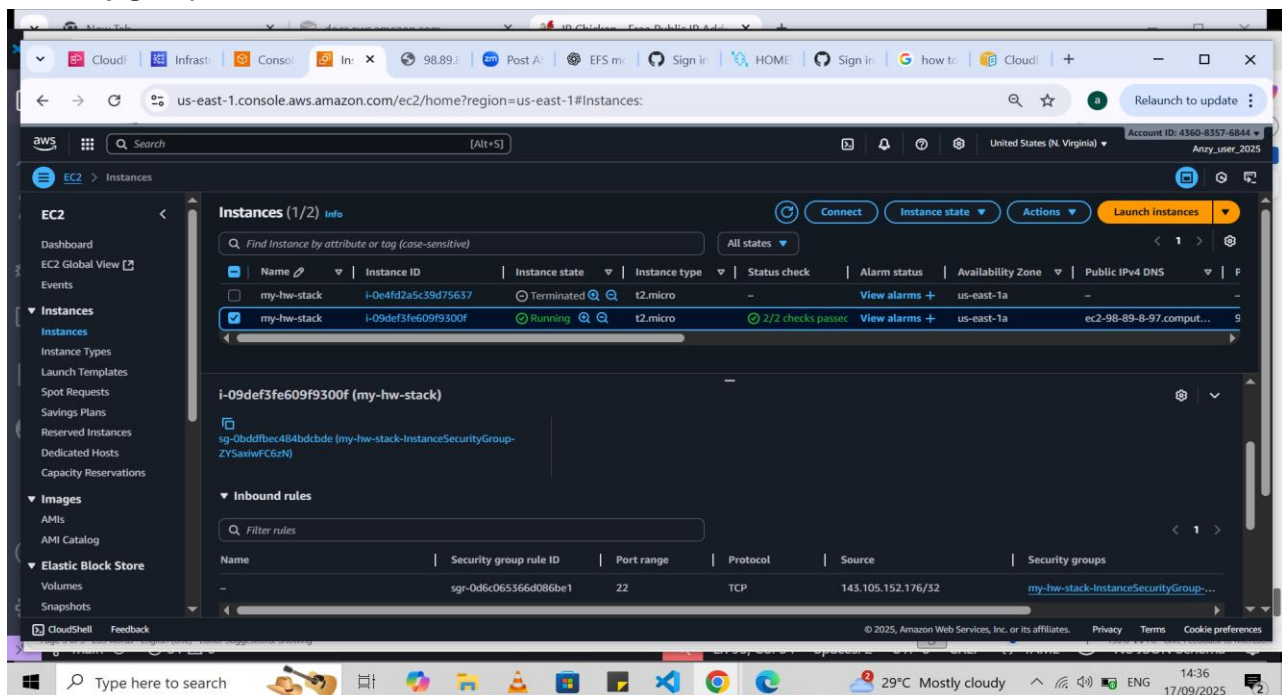
Outputs:



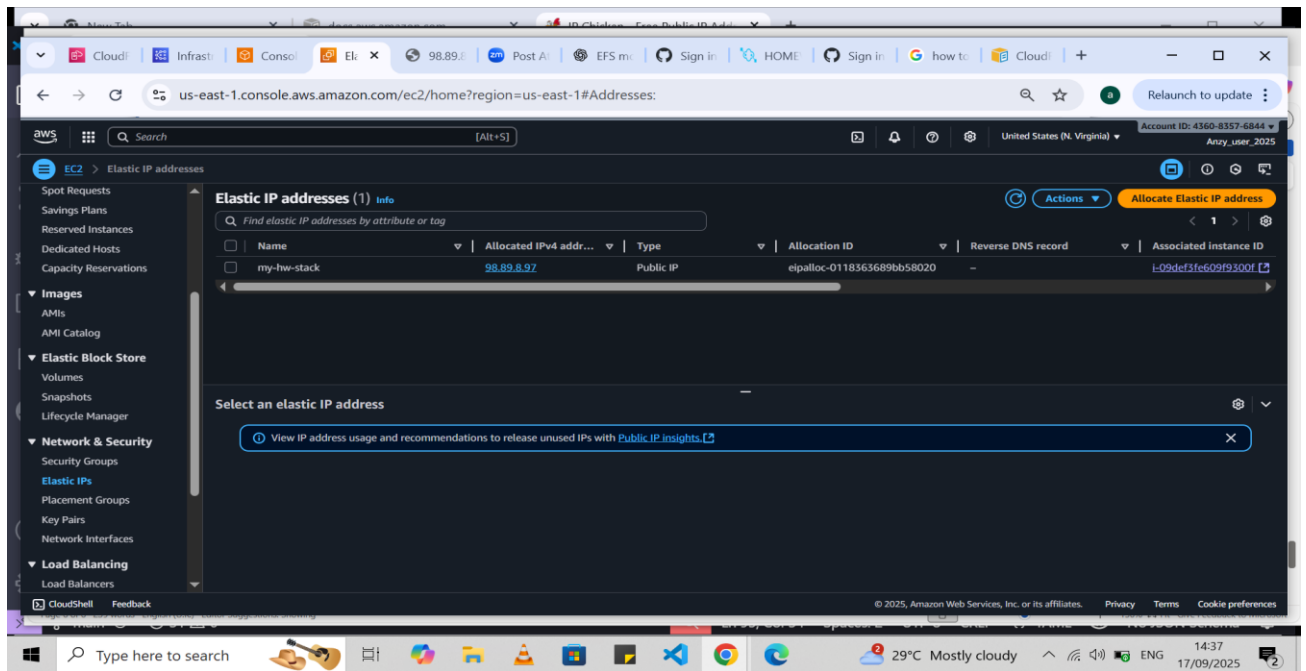
Checking resources created



Security group:



My EIP:



Testing the website using the public ip

