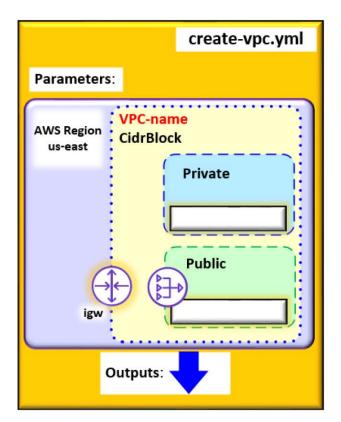
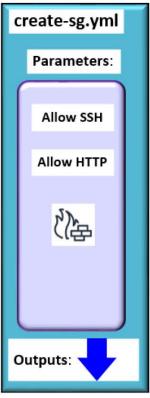
Author: Frank Ekwomadu. C

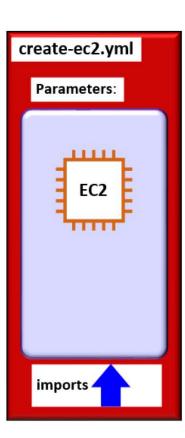
Tech Stack: AWS CloudFormation

VISUAL OF THE INFRASTRUCTURE

<u>Challenge</u>: Using AWS's CloudFormation, provision the infrastructure below.





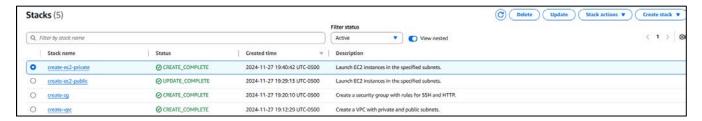


Challenge Requirements:

- a. create-vpc.yml: Creates a VPC with **private** and **public subnets**. A **NAT Gateway** should be attached to the public subnet to enable the private subnet to access the internet.
- b. create-sg.yml: Creates a security group with rules for **SSH** and **HTTP**. These rules should permit traffic from anywhere.
- c. create-ec2.yml: Launches EC2 instances in the subnets (private or public) specified by the user. They should make use of the VPC and SG created in (a) and (b).

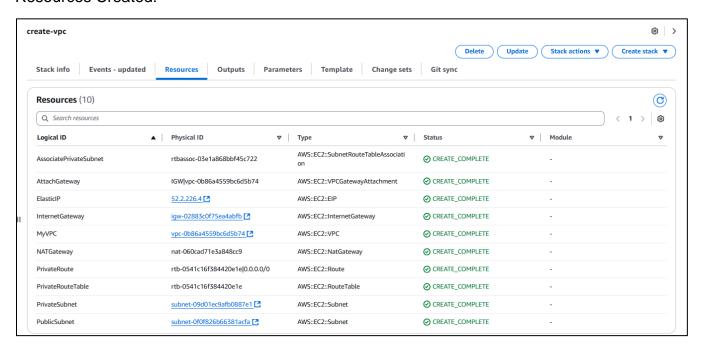
MY SOLUTION VISUALS

Stacks Display:



A. create-vpc.yml

Resources Created:

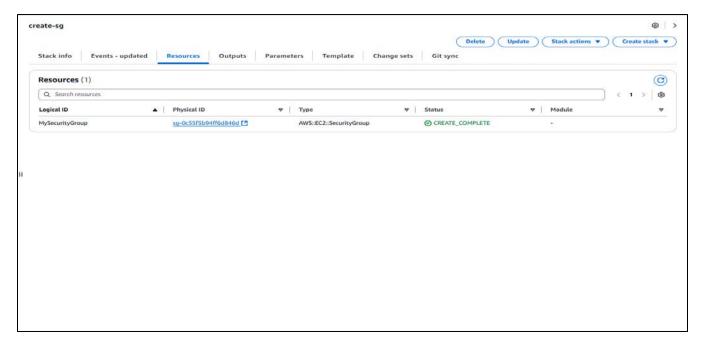


Canvas Display of Created Resources:

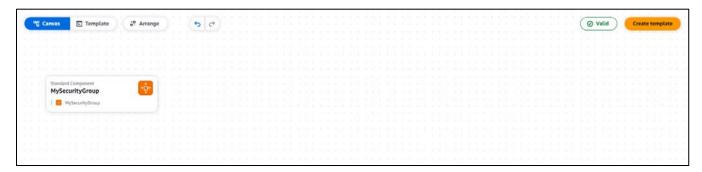


B. create-sg.yml

Resources Created:



Canvas Display of Created Resources:

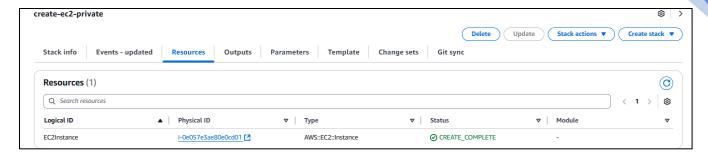


C. create-ec2.yml

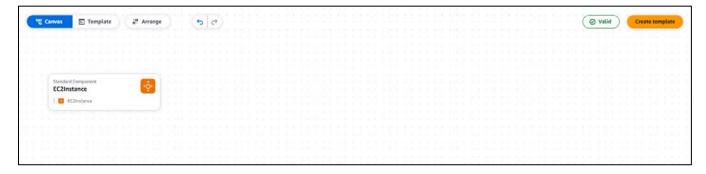
Resouces Created - Public ec2



Resouces Created - Private ec2

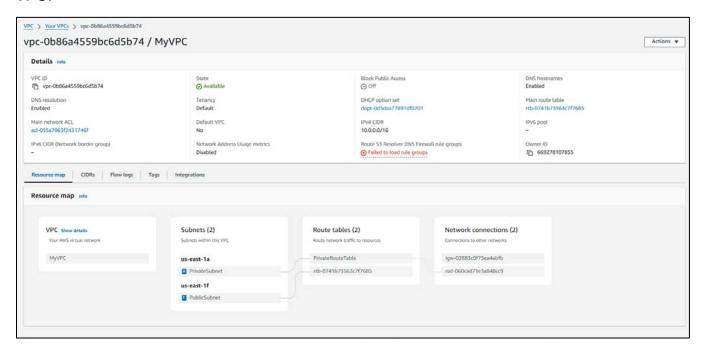


Canvas Display of Created Resources:



D. VPC, IGW, and Public & Private Subnet with CIDR block

VPC:



Public & Private Subnet:

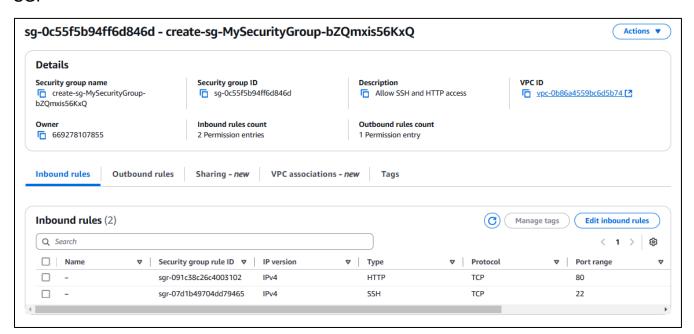


IGW:

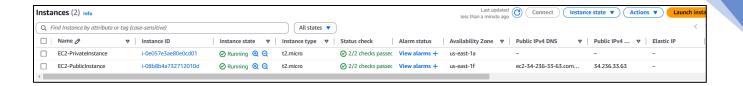


E. EC2 with the given SG configuration in the public subnet created

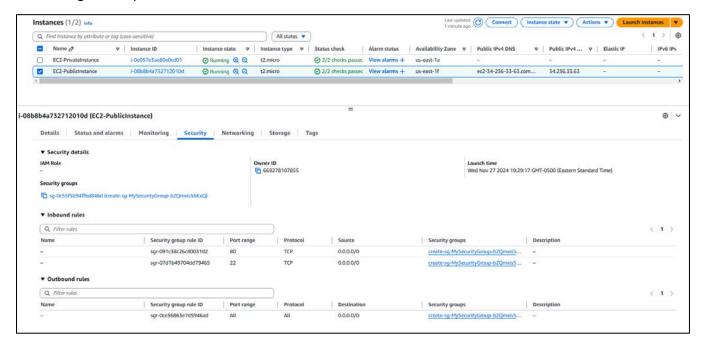
SG:



Running Instances:



SG config in the public subnet:



NAT Gateway

