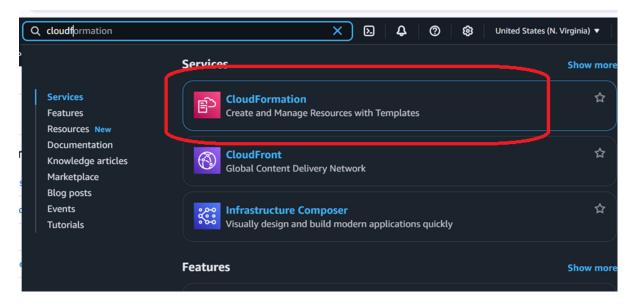
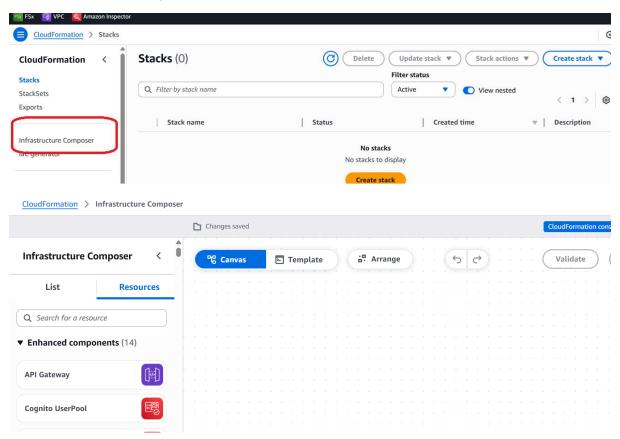
CloudFormation

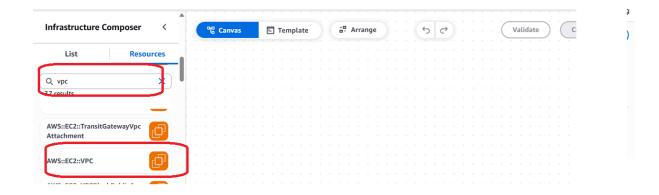
In aws console, select cloudformation:



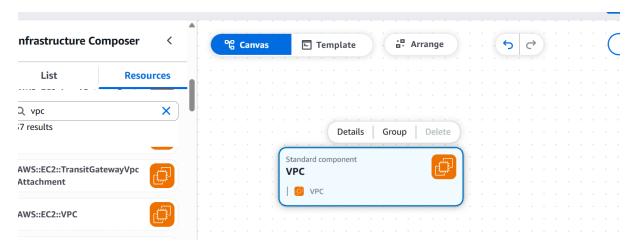
Select infrastructure composer



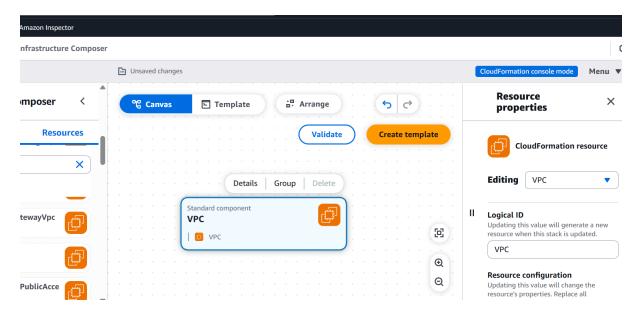
Search for VPC



Drag and drop vpc

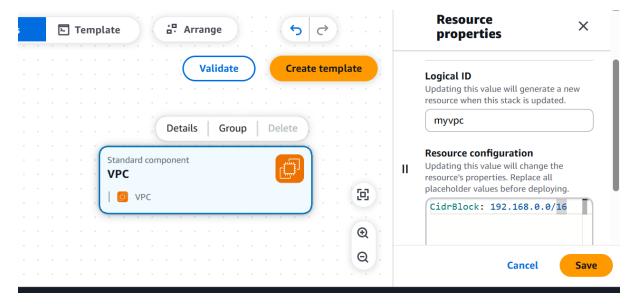


Double click on VPC



Right-hand side you will find Resource configuration

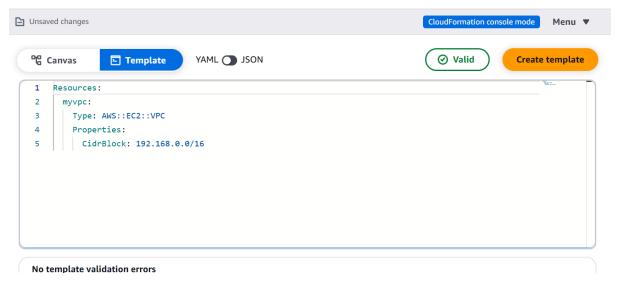
Add code in Resource configuration and save



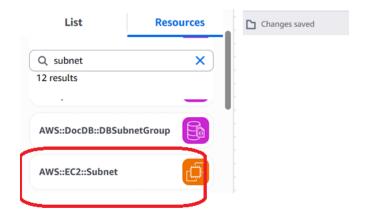
Add following:

CidrBlock: 192.168.0.0/16

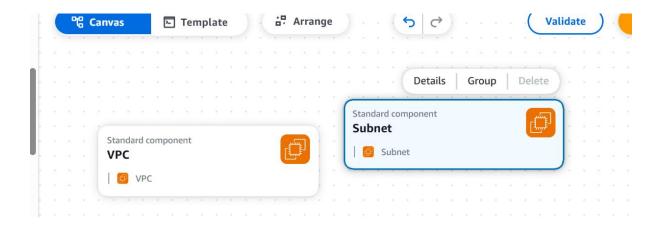
Click on Template you will find the code and click on validate and check



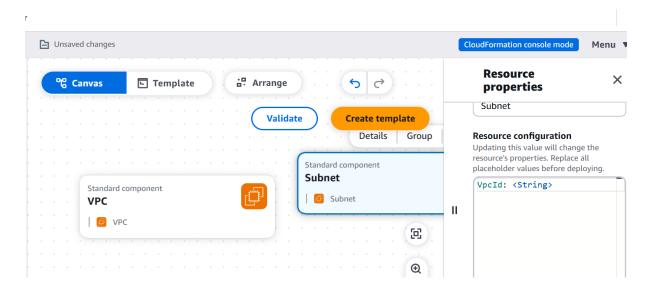
Check for subnet



Drag and drop on AWS::EC2::Subnet



Double click on Subnet and find resource Configration



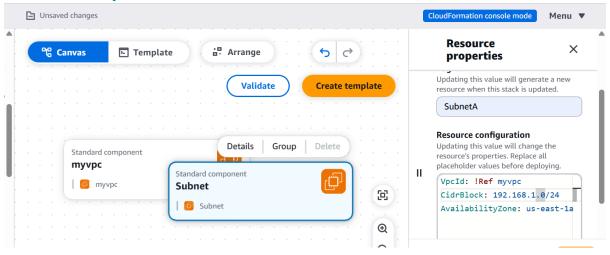
In **AWS CloudFormation**, !Ref (or Ref) is an **intrinsic function** used to **reference a resource**, **parameter**, **or pseudo parameter** within a CloudFormation template.

What does !Ref do?

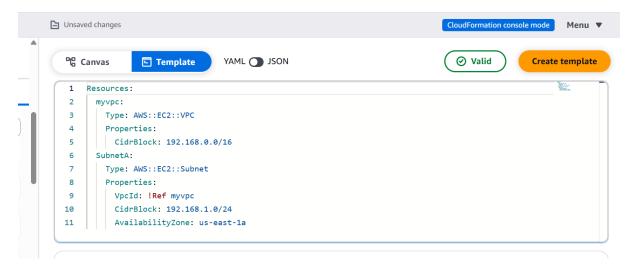
- It returns a value that's associated with the specified resource or parameter.
- The returned value depends on what is being referenced.

VpcId: !Ref myvpc

CidrBlock: 192.168.1.0/24 AvailabilityZone: us-east-1a





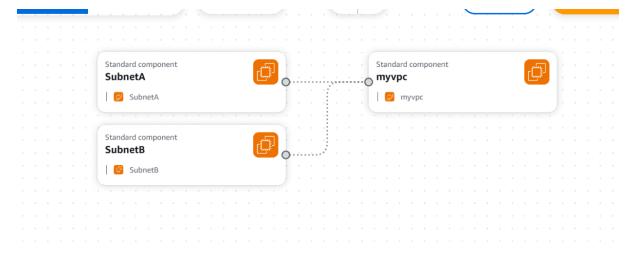


Assignment Create one more subnet

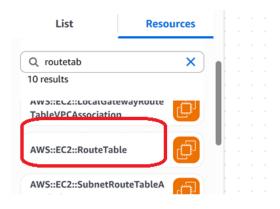
VpcId: !Ref myvpc

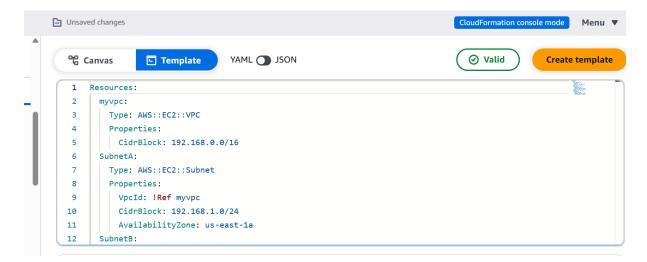
CidrBlock: 192.168.2.0/24

AvailabilityZone: us-east-1b



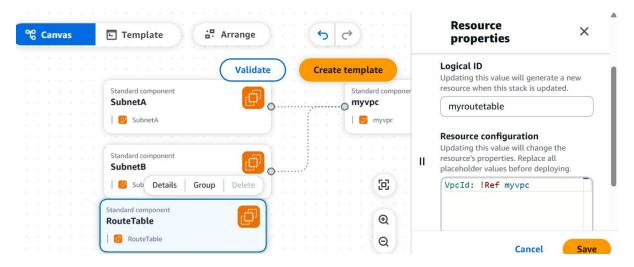
Create RouteTable



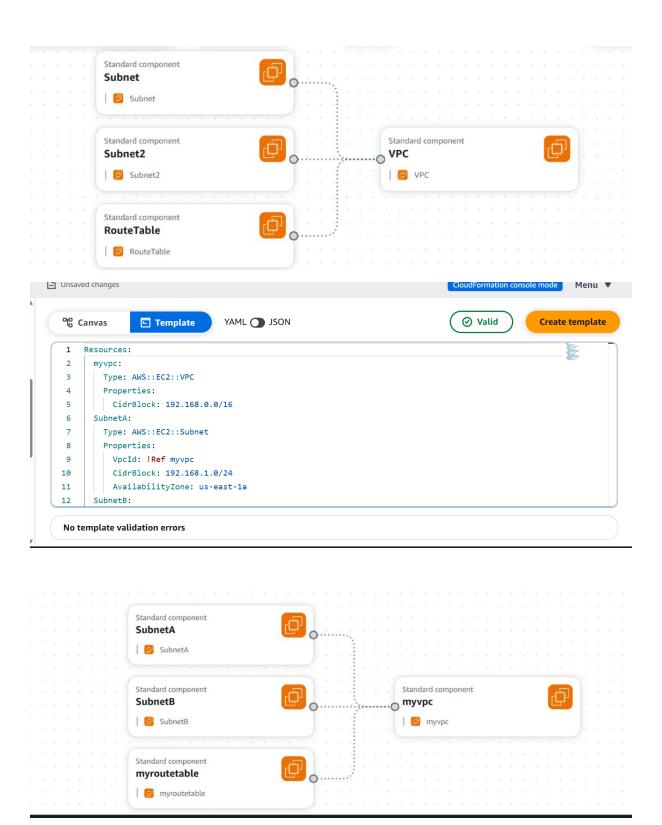


Drag and drop

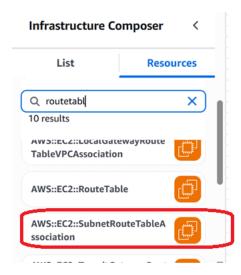
VpcId: !Ref myvpc



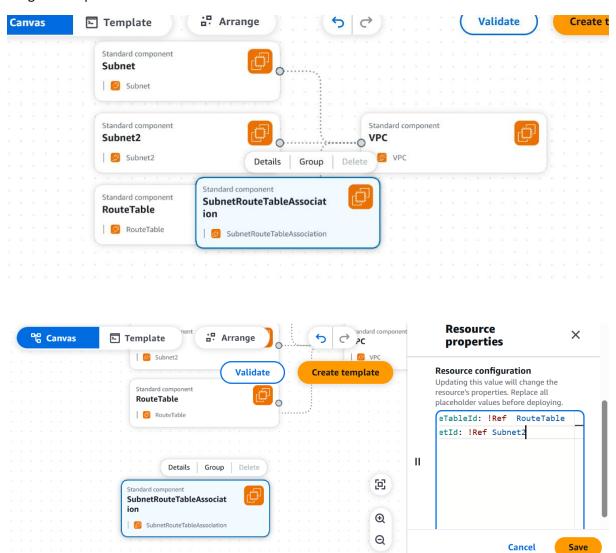
Save it



Check for subnetroutetableassociation

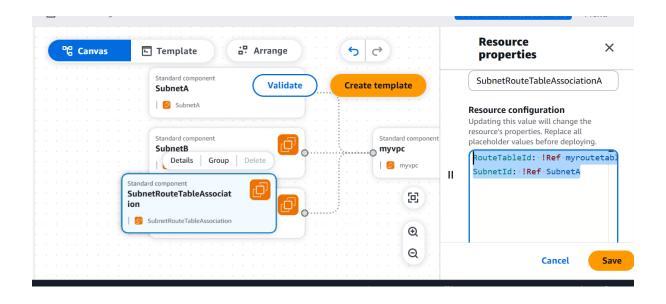


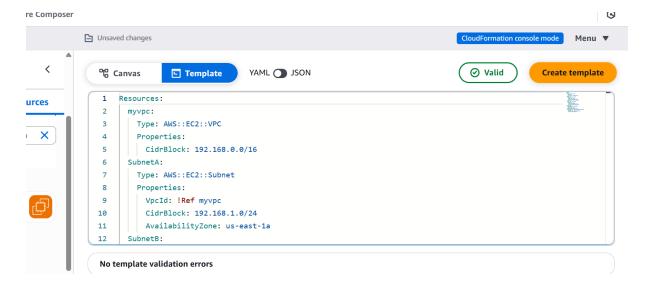
Drag and drop

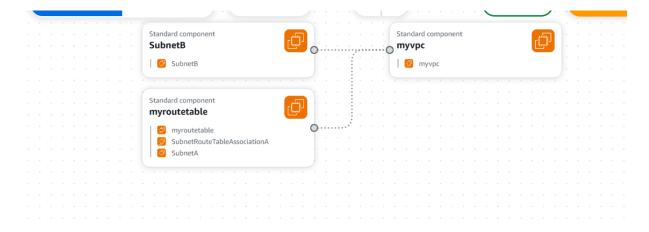


RouteTableId: !Ref myroutetable

SubnetId: !Ref SubnetA



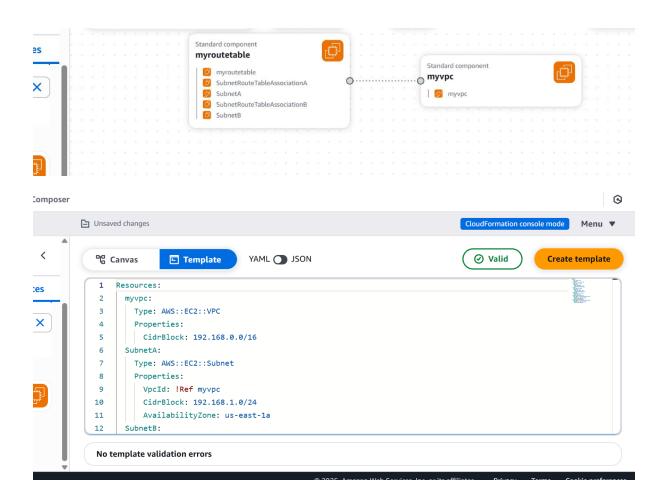




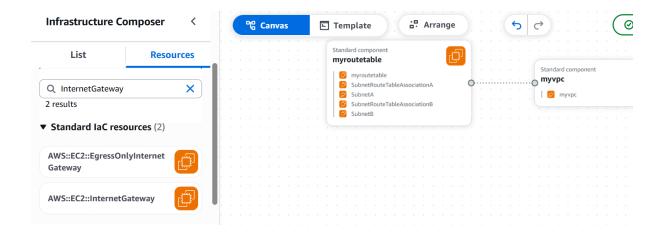
Assignment Add subnetB as well: using SubnetRouteTableAssociation

RouteTableId: !Ref myroutetable

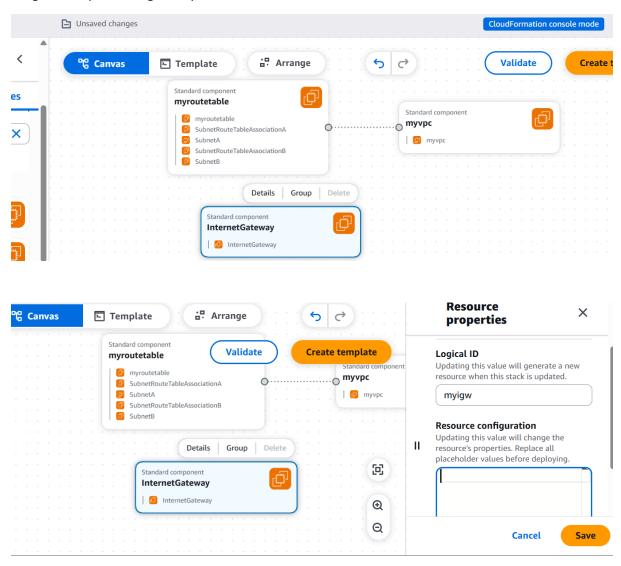
SubnetId: !Ref SubnetB



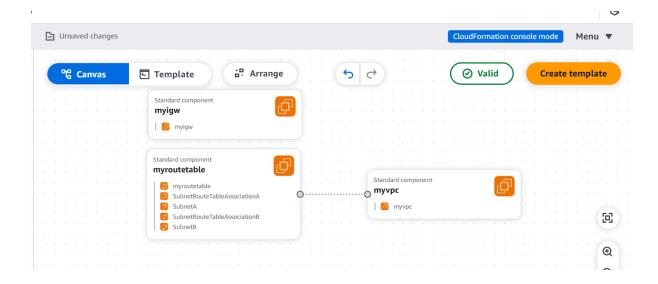
Internetgateway:



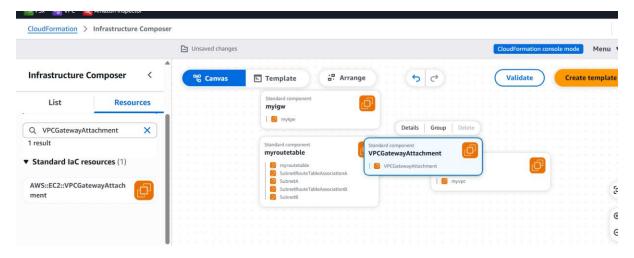
Drag and drop internetgateway

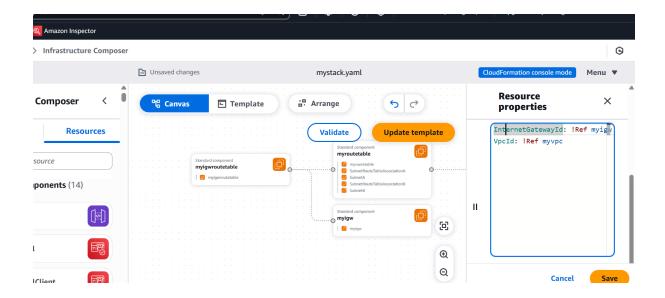


Validate



Check for VPCGatewayAttachment:



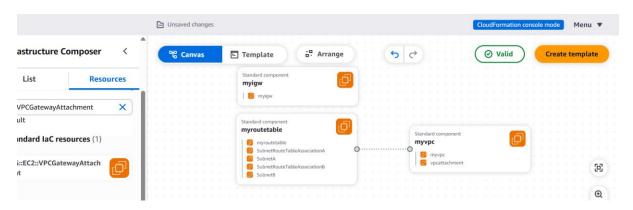


Code:

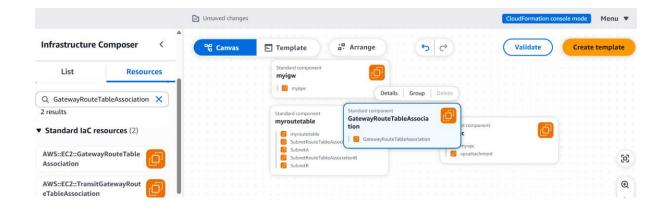
Int ernetGatewayld: !Ref myigw

VpcId: !Ref myvpc

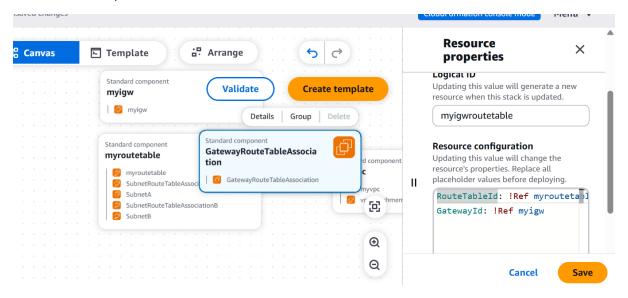
Save and validate



Next search for GatewayRouteTableAssociation



Double click and provide details



Code

RouteTableId: !Ref myroutetable

Gatewayld: !Ref myigw



Click on validate

Code:

Resources:
myvpc:

Type: AWS::EC2::VPC

Properties:

CidrBlock: 192.168.0.0/16

SubnetA:

Type: AWS::EC2::Subnet

Properties:

VpcId: !Ref myvpc

CidrBlock: 192.168.1.0/24

AvailabilityZone: us-east-1a

SubnetB:

Type: AWS::EC2::Subnet

Properties:

VpcId: !Ref myvpc

CidrBlock: 192.168.2.0/24

AvailabilityZone: us-east-1b

myroutetable:

Type: AWS::EC2::RouteTable

Properties:

VpcId: !Ref myvpc

SubnetRouteTableAssociationA:

Type: AWS::EC2::SubnetRouteTableAssociation

Properties:

RouteTableId: !Ref myroutetable

SubnetId: !Ref SubnetA

SubnetRouteTableAssociationB:

Type: AWS::EC2::SubnetRouteTableAssociation

Properties:

RouteTableId: !Ref myroutetable

SubnetId: !Ref SubnetB

myigw:

Type: AWS::EC2::InternetGateway

vpcattachment:

Type: AWS::EC2::VPCGatewayAttachment

Properties:

Int ernetGatewayld: !Ref myigw

VpcId: !Ref myvpc

myigwroutetable:

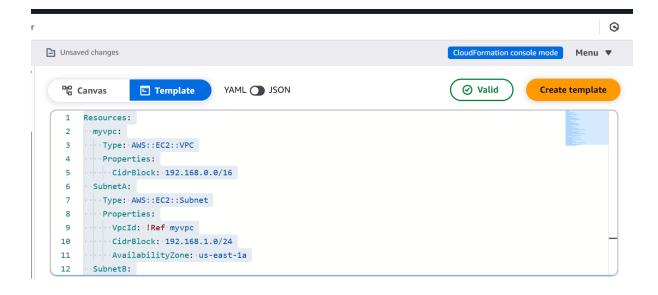
Type: AWS::EC2::GatewayRouteTableAssociation

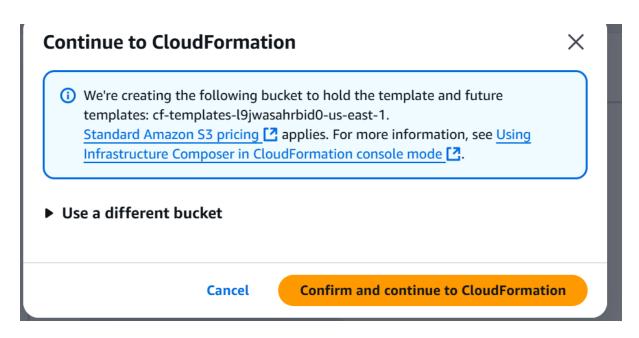
Properties:

RouteTableId: !Ref myroutetable

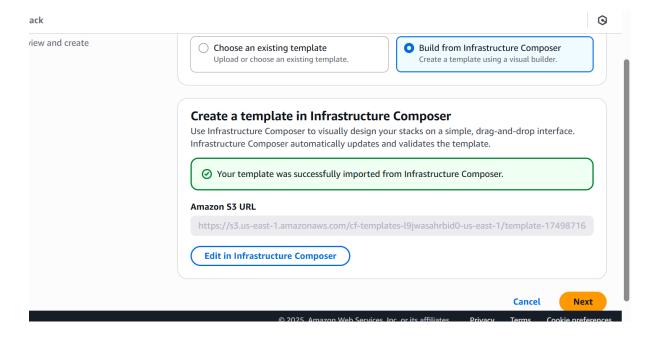
Gatewayld: !Ref myigw

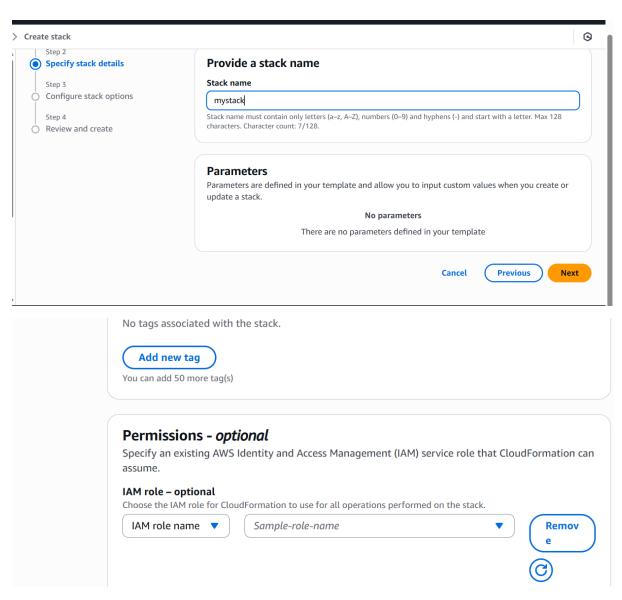
Click on create template

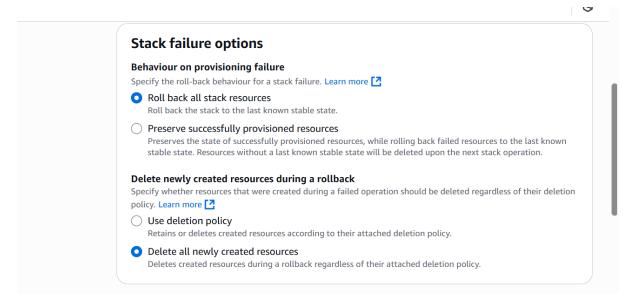




Click on next







Click on submit

