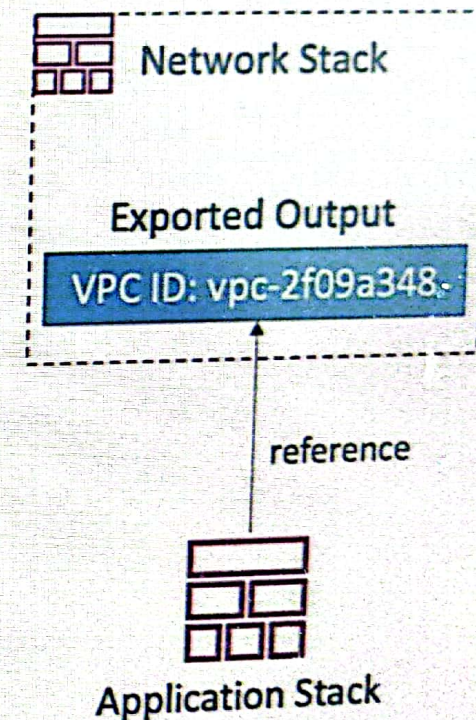


What are outputs?

- The Outputs section declares *optional* outputs values that we can import into other stacks (if you export them first)!
- You can also view the outputs in the AWS Console or in using the AWS CLI
- They're very useful for example if you define a network CloudFormation, and output the variables such as VPC ID and your Subnet IDs
- It's the best way to perform some collaboration cross stack, as you let expert handle their own part of the stack



Outputs Hands-On

- Creating a SSH Security Group as part of one template
- We create an output that references that security group

Outputs:

StackSSHSecurityGroup:

Description: The SSH Security Group for our Company

Value: !Ref MyCompanyWideSSHSecurityGroup

Export:

Name: SSHSecurityGroup

Cross Stack Reference Hands-On

- We then create a second template that leverages that security group
- For this, we use the `Fn::ImportValue` function
- You can't delete the underlying stack until all the references are deleted too

```
Resources:
  MySecureInstance:
    Type: AWS::EC2::Instance
    Properties:
      AvailabilityZone: us-east-1a
      ImageId: ami-0742b4e673072066f
      InstanceType: t2.micro
      SecurityGroups:
        - !ImportValue SSHSecurityGroup
```