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COS20019 – Cloud Computing Architecture - Wk8: ACA Module 10 Guided Lab - Automating Infrastructure Deployment with AWS CloudFormation

## Task 1 - Deploying a networking layer

The screenshot shows the AWS CloudFormation console's 'Create stack' wizard. The left sidebar indicates the current step is 'Step 1: Create stack'. The main content area is titled 'Create stack' and contains two sections: 'Prerequisite - Prepare template' and 'Specify template'.

In the 'Prerequisite - Prepare template' section, there are three radio buttons: 'Template is ready' (selected), 'Use a sample template', and 'Create template in Designer'.

The 'Specify template' section has a sub-section 'Template source' with two radio buttons: 'Amazon S3 URL' and 'Upload a template file' (selected). Below this, there is a file upload area with a 'Choose file' button and the filename 'lab-network.yaml'. A red arrow points to this filename. Below the filename, it says 'JSON or YAML formatted file'.

At the bottom of the 'Specify template' section, the 'S3 URL' is displayed as 'https://s3.us-east-1.amazonaws.com/cf-templates-rfljm8ufzgsf-us-east-1/2023-07-03T090229.517Z7j1-lab-network.yaml'. There is a 'View in Designer' button next to it.

At the bottom right of the wizard, there are 'Cancel' and 'Next' buttons.

Steps 5-8: Create a network stack (choose the lab-network.yaml template)

aws Services Search [Alt+S] N. Virginia voclabs/user2564760=104222196@student.swin.edu.au @ 2500-7723...

CloudFormation > Stacks > Create stack

Step 1  
Create stack

Step 2  
Specify stack details

Step 3  
Configure stack options

Step 4  
Review lab-network

## Specify stack details

**Stack name**

Stack name

lab-network

Stack name can include letters (A-Z and a-z), numbers (0-9), and dashes (-).

**Parameters**

Parameters are defined in your template and allow you to input custom values when you create or update a stack.

**No parameters**

There are no parameters defined in your template

Cancel Previous Next

Step 8: Create a network stack (set the name to lab-network)

aws

Services

Search

[Alt+S]

N. Virginia

voclabs/user2564760=104222196@student.swin.edu.au @ 2500-7723...

CloudFormation > Stacks > Create stack

Step 1  
Create stack

Step 2  
Specify stack details

Step 3  
Configure stack options

Step 4  
Review lab-network

## Configure stack options

### Tags

You can specify tags (key-value pairs) to apply to resources in your stack. You can add up to 50 unique tags for each stack.

Key

Value - optional

Q application

Q inventory

Remove

Add new tag

You can add 49 more tag(s)

### Permissions

IAM role - optional

Choose the IAM role for CloudFormation to use for all operations performed on the stack.

IAM role name

Sample-role-name

Remove

### Stack failure options

Behavior on provisioning failure

Specify the roll back behavior for a stack failure. [Learn more](#)

☒ Roll back all stack resources

Roll back the stack to the last known stable state.

☐ Preserve successfully provisioned resources

Preserves the state of successfully provisioned resources, while rolling back failed resources to the last known stable state. Resources without a last known stable state will be deleted upon the next stack operation.

Step 8: Create a network stack (create a tag)

CloudFormation > Stacks > lab-network

Stacks (2)

Filter by stack name

Active View nested

Stacks

- lab-network  
2023-07-03 16:04:07 UTC+0700  
CREATE\_COMPLETE
- c84296a179548914370119t1w250077232490  
2023-07-03 15:47:44 UTC+0700  
CREATE\_COMPLETE

lab-network

Delete Update Stack actions Create stack

Stack info Events Resources Outputs Parameters Template Change sets

Overview

Stack ID	arn:aws:cloudformation:us-east-1:250077232490:stack/lab-network/90f57de0-1980-11ee-a5b5-12c9b479192d	Description	Network Template: Sample template that creates a VPC with DNS and public IPs enabled.
Status	CREATE_COMPLETE	Status reason	-
Root stack	-	Parent stack	-
Created time	2023-07-03 16:04:07 UTC+0700	Deleted time	-
Updated time	-		
Drift status	NOT_CHECKED	Last drift check time	-
Termination protection	Deactivated	IAM role	-

Tags

Stack-level tags will apply to all supported resources in your stack. You can add up to 200 unique tags for each stack.

Steps 9-10: Wait for the status to become CREATE\_COMPLETE.

aws Services Search [Alt+S] N. Virginia voclabs/user2564760=104222196@student.swin.edu.au @ 2500-7723...

CloudFormation > Stacks > lab-network

Stacks (2)

Filter by stack name

Active View nested

Stacks

- lab-network  
2023-07-03 16:04:07 UTC+0700  
CREATE\_COMPLETE
- c84296a1795489l4370119t1w250077232490  
2023-07-03 15:47:44 UTC+0700  
CREATE\_COMPLETE

lab-network

Delete Update Stack actions Create stack

Stack info Events Resources Outputs Parameters Template Change sets

Resources (8)

Search resources

Logical ID	Physical ID	Type	Status	Module
InternetGateway	igw-0bf85833fb8abec01	AWS::EC2::InternetGateway	CREATE_COMPLETE	-
PublicRoute	lab-n-Publi-1P1YHQX0CBL1Q	AWS::EC2::Route	CREATE_COMPLETE	-
PublicRouteTable	rtb-0d4a636f29eee1151	AWS::EC2::RouteTable	CREATE_COMPLETE	-
PublicSubnet	subnet-0134c91b69a701838	AWS::EC2::Subnet	CREATE_COMPLETE	-
PublicSubnetNetworkAclAssociation	aclassoc-0feaabf5e37760d7e	AWS::EC2::SubnetNetworkAclAssociation	CREATE_COMPLETE	-
PublicSubnetRouteTableAssociation	rtbassoc-0a716457228020fdd	AWS::EC2::SubnetRouteTableAssociation	CREATE_COMPLETE	-
VPC	vpc-007a43b23682aeb0a	AWS::EC2::VPC	CREATE_COMPLETE	-
VPCGatewayAttachment	lab-n-VPCGa-BJFMHMYVVLXK	AWS::EC2::VPCGatewayAttachment	CREATE_COMPLETE	-

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Step 11: The Resources tab of lab-network.

aws Services Search [Alt+S] N. Virginia voclabs/user2564760=104222196@student.swin.edu.au @ 2500-7723...

CloudFormation > Stacks > lab-network

Stacks (2)

Filter by stack name

Active View nested < 1 >

Stacks

- lab-network  
2023-07-03 16:04:07 UTC+0700  
CREATE\_COMPLETE
- c84296a179548914370119t1w250077232490  
2023-07-03 15:47:44 UTC+0700  
CREATE\_COMPLETE

lab-network

Delete Update Stack actions Create stack

Stack info **Events** Resources Outputs Parameters Template Change sets

Events (26)

Search events

Timestamp	Logical ID	Status	Status reason
2023-07-03 16:05:04 UTC+0700	lab-network	CREATE_COMPLETE	-
2023-07-03 16:05:02 UTC+0700	PublicRoute	CREATE_COMPLETE	-
2023-07-03 16:04:47 UTC+0700	PublicRoute	CREATE_IN_PROGRESS	Resource creation Initiated
2023-07-03 16:04:47 UTC+0700	PublicSubnetNetworkAclAssociation	CREATE_COMPLETE	-
2023-07-03 16:04:46 UTC+0700	PublicRoute	CREATE_IN_PROGRESS	-
2023-07-03 16:04:45 UTC+0700	PublicSubnetRouteTableAssociation	CREATE_COMPLETE	-
2023-07-03 16:04:45 UTC+0700	VPCGatewayAttachment	CREATE_COMPLETE	-
2023-07-03 16:04:45 UTC+0700	PublicSubnetRouteTableAssociation	CREATE_IN_PROGRESS	Resource creation Initiated
2023-07-03 16:04:43 UTC+0700	PublicSubnetRouteTableAssociation	CREATE_IN_PROGRESS	-
2023-07-03 16:04:42 UTC+0700	PublicRouteTable	CREATE_COMPLETE	-
2023-07-03 16:04:32 UTC+0700	PublicSubnetNetworkAclAssociation	CREATE_IN_PROGRESS	Resource creation Initiated
2023-07-03 16:04:31 UTC+0700	PublicSubnetNetworkAclAssociation	CREATE_IN_PROGRESS	-
2023-07-03 16:04:29 UTC+0700	VPCGatewayAttachment	CREATE_IN_PROGRESS	Resource creation Initiated

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Step 12: The Events tab of lab-network.

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CloudFormation > Stacks > lab-network

Stacks (2)

Filter by stack name

Active View nested < 1 >

Stacks

- lab-network  
2023-07-03 16:04:07 UTC+0700  
CREATE\_COMPLETE
- c84296a179548914370119t1w250077232490  
2023-07-03 15:47:44 UTC+0700  
CREATE\_COMPLETE

lab-network

Delete Update Stack actions Create stack

Stack info Events Resources **Outputs** Parameters Template Change sets

Outputs (2)

Search outputs < 1 >

Key	Value	Description	Export name
PublicSubnet	subnet-0134c91b69a701838	The subnet ID to use for public web servers	lab-network-SubnetID
VPC	vpc-007a43b23682aeb0a	VPC ID	lab-network-VPCID

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Step 13: The Outputs tab of lab-network. Two items are correctly shown.

The screenshot displays the AWS CloudFormation console interface. On the left, the 'Stacks (2)' list shows two stacks: 'lab-network' and 'c84296a1795489i4370119t1w250077232490'. The 'lab-network' stack is selected and highlighted in blue, with a status of 'CREATE\_COMPLETE'. The main panel shows the 'lab-network' stack details, with the 'Template' tab selected. A red arrow points to the 'Template' tab in the navigation bar. The template content is displayed in a text area, showing the AWS::CloudFormation::Template format. The template includes a description, a list of resources (VPC, Internet Gateway, Public Route Table, Public Subnet), and a Resources section with properties for each resource.

CloudFormation > Stacks > lab-network

Stacks (2)

Filter by stack name

Active View nested

Stacks

lab-network

2023-07-03 16:04:07 UTC+0700

CREATE\_COMPLETE

c84296a1795489i4370119t1w250077232490

2023-07-03 15:47:44 UTC+0700

CREATE\_COMPLETE

lab-network

Delete Update Stack actions Create stack

Stack info Events Resources Outputs Parameters Template Change sets

Template

View in Designer Copy to clipboard

```
AWS::CloudFormation::Template
Description: >-
  Network Template: Sample template that creates a VPC with DNS and public IPs enabled.

# This template creates:
# VPC
# Internet Gateway
# Public Route Table
# Public Subnet

#####
# Resources section
#####

Resources:

## VPC

VPC:
  Type: AWS::EC2::VPC
  Properties:
    EnableDnsSupport: true
    EnableDnsHostnames: true
    CidrBlock: 10.0.0.0/16

## Internet Gateway

InternetGateway:
  Type: AWS::EC2::InternetGateway

VPCGatewayAttachment:
  Type: AWS::EC2::VPCGatewayAttachment
  Properties:
    VpcId: !Ref VPC
    InternetGatewayId: !Ref InternetGateway
```

Step 14: The Template tab of lab-network.



## Task 2 - Deploying an application layer

**CloudFormation** > **Stacks** > **Create stack**

Step 1  
**Create stack**

Step 2  
Specify stack details

Step 3  
Configure stack options

Step 4  
Review

### Create stack

#### Prerequisite - Prepare template

**Prepare template**  
Every stack is based on a template. A template is a JSON or YAML file that contains configuration information about the AWS resources you want to include in the stack.

☒ Template is ready ☐ Use a sample template ☐ Create template in Designer

#### Specify template

A template is a JSON or YAML file that describes your stack's resources and properties.

**Template source**  
Selecting a template generates an Amazon S3 URL where it will be stored.

☐ Amazon S3 URL ☒ Upload a template file

**Upload a template file**  
 *lab-application.yaml*  
JSON or YAML formatted file

S3 URL: `https://s3.us-east-1.amazonaws.com/cf-templates-rfijm8ufzgsf-us-east-1/2023-07-03T091059.804Zlvt-lab-application.yaml`

Steps 15-17: Create an application stack (choose the lab-application.yaml template.)

aws Services Search [Alt+S] N. Virginia voclabs/user2564760=104222196@student.swin.edu.au @ 2500-7723...

CloudFormation > Stacks > Create stack

Step 1  
Create stack

Step 2  
Specify stack details

Step 3  
Configure stack options

Step 4  
Review lab-application

## Specify stack details

**Stack name**

Stack name

lab-application

Stack name can include letters (A-Z and a-z), numbers (0-9), and dashes (-).

**Parameters**

Parameters are defined in your template and allow you to input custom values when you create or update a stack.

**AmazonLinuxAMIID**

/aws/service/ami-amazon-linux-latest/amzn2-ami-hvm-x86\_64-gp2

**NetworkStackName**

Name of an active CloudFormation stack that contains the networking resources, such as the VPC and subnet that will be used in this stack.

lab-network

Cancel Previous Next

Step 17: Create an application stack (set the name to lab-application and set the network stack name to lab-network).

aws

Services

Search

[Alt+S]

N. Virginia

voclabs/user2564760=104222196@student.swin.edu.au @ 2500-7723...

CloudFormation > Stacks > Create stack

Step 1

Create stack

Step 2

Specify stack details

Step 3

Configure stack options

Step 4

Review lab-application

## Configure stack options

### Tags

You can specify tags (key-value pairs) to apply to resources in your stack. You can add up to 50 unique tags for each stack.

Key

Value - optional

Q application

Q inventory

Remove

Add new tag

You can add 49 more tag(s)

### Permissions

IAM role - optional

Choose the IAM role for CloudFormation to use for all operations performed on the stack.

IAM role name

Sample-role-name

Remove

### Stack failure options

Behavior on provisioning failure

Specify the roll back behavior for a stack failure. [Learn more](#)

☒ Roll back all stack resources

Roll back the stack to the last known stable state.

☐ Preserve successfully provisioned resources

Preserves the state of successfully provisioned resources, while rolling back failed resources to the last known stable state. Resources without a last known stable state will be deleted upon the next stack operation.

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Step 17: Create an application stack (create a tag).

aws Services Search [Alt+S] N. Virginia voclabs/user2564760=104222196@student.swin.edu.au @ 2500-7723...

CloudFormation > Stacks > lab-application

Stacks (3)

Filter by stack name

Active View nested

< 1 >

Stacks

- lab-application  
2023-07-03 16:13:02 UTC+0700  
 CREATE\_COMPLETE
- lab-network  
2023-07-03 16:04:07 UTC+0700  
 CREATE\_COMPLETE
- c84296a179548914370119t1w250077232490  
2023-07-03 15:47:44 UTC+0700  
 CREATE\_COMPLETE

lab-application

Delete Update Stack actions Create stack

Stack info Events Resources Outputs Parameters Template Change sets

Overview

Stack ID <a href="#">arn:aws:cloudformation:us-east-1:250077232490:stack/lab-application/cf18f920-1981-11ee-b7ac-125bfb7a4ae7</a>	Description Application Template: Demonstrates how to reference resources from a different stack. This template provisions an EC2 instance in a VPC Subnet provisioned in a different stack.
Status CREATE_COMPLETE	Status reason -
Root stack -	Parent stack -
Created time 2023-07-03 16:13:02 UTC+0700	Deleted time -
Updated time -	
Drift status NOT_CHECKED	Last drift check time -
Termination protection Deactivated	IAM role -

Tags  
Stack-level tags will apply to all supported resources in your stack. You can add up to 200 unique tags for each stack.

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Step 18: Wait for the application stack to finish creating.

CloudFormation > Stacks > lab-application

Stacks (3)

Filter by stack name

Active View nested

Stacks

- lab-application  
2023-07-03 16:13:02 UTC+0700  
CREATE\_COMPLETE
- lab-network  
2023-07-03 16:04:07 UTC+0700  
CREATE\_COMPLETE
- c84296a179548914370119t1w250077232490  
2023-07-03 15:47:44 UTC+0700  
CREATE\_COMPLETE

lab-application

Delete Update Stack actions Create stack


Stack info Events Resources **Outputs** Parameters Template Change sets

Outputs (1)

Search outputs

Key	Value	Description	Export name
URL	<a href="http://ec2-54-162-143-200.compute-1.amazonaws.com">http://ec2-54-162-143-200.compute-1.amazonaws.com</a>	URL of the sample website	-

II



Step 19: In the Outputs tab of lab-application, copy the URL.



**Congratulations, you have successfully launched the AWS CloudFormation sample.**

Step 20: Opening the URL in a new browser window, a webpage is shown.

## Task 3 - Updating a Stack

The screenshot shows the AWS Management Console interface for Security Groups. The left sidebar contains navigation links for EC2 Dashboard, Events, Limits, Instances, Images, Elastic Block Store, and Network & Security. The main content area displays the 'Security Groups (1/3)' page. A table lists three security groups, with 'Web Server Security Group' selected. Below the table, the details for 'sg-0d0c990cc593c8085' are shown, including a 'Run Reachability Analyzer' button and a table of inbound rules. A red arrow points to the 'IP version' column header in the inbound rules table.

Name	Security group ID	Security group name	VPC ID	Description	Owner	Inbound rules count	Outbound rules count
-	sg-0fccc3b9f7928983	default	vpc-007a43b23682aeb0a	default VPC security group	250077232490	1 Permission entry	1 Permission entry
Web Server Security Group	sg-0d0c990cc593c8085	lab-application-WebServerSecurityGroup-16RYP2NBQFGQX	vpc-007a43b23682aeb0a	Enable HTTP ingress	250077232490	1 Permission entry	1 Permission entry
-	sg-0bc34e9b73374ad78	default	vpc-060de8cc7c0bf3277	default VPC security group	250077232490	1 Permission entry	1 Permission entry

Name	Security group rule ID	IP version	Type	Protocol	Port range	Source	Description
-	sgr-0860419d7396dbff7	IPv4	HTTP	TCP	80	0.0.0.0/0	-

Steps 21-24: The Web Server Security Group shows one inbound rule that allows all inbound HTTP traffic.

aws Services Search [Alt+S] N. Virginia voclabs/user2564760=104222196@student.swin.edu.au @ 2500-7723...

CloudFormation > Stacks > lab-application > Update stack

Step 1  
Update stack

Step 2  
Specify stack details

Step 3  
Configure stack options

Step 4  
Review lab-application

## Update stack

### Prerequisite - Prepare template

Prepare template  
Every stack is based on a template. A template is a JSON or YAML file that contains configuration information about the AWS resources you want to include in the stack.

☐ Use current template ☒ Replace current template ☐ Edit template in designer

### Specify template

A template is a JSON or YAML file that describes your stack's resources and properties.

Template source  
Selecting a template generates an Amazon S3 URL where it will be stored.

☐ Amazon S3 URL ☒ Upload a template file

Upload a template file  
 lab-application2.yaml  
JSON or YAML formatted file

S3 URL: <https://s3.us-east-1.amazonaws.com/cf-templates-rfljm8ufzgsf-us-east-1/2023-07-03T092041.9582ha6-lab-application2.yaml>

Steps 25-28: Update the application stack by specifying a new template file.



aws Services Search [Alt+S] N. Virginia voclabs/user2564760-104222196@student.swin.edu.au @ 2500-7723...

There is no stack policy defined

### Rollback configuration

Monitoring time  
-

CloudWatch alarm ARN  
-

### Notification options

SNS topic ARN

No notification options  
There are no notification options defined

### Change set preview

#### Changes (1)

Search changes

Action	Logical ID	Physical ID	Resource type	Replacement	Module	Hook invocations
Modify	WebServerSecurityGroup	sg-0d0c990cc593c8085	AWS::EC2::SecurityGroup	False	-	-

View change set Cancel Previous Submit

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Step 29: CloudFormation shows the changes that will be applied, which in this case is only the Web Server Security Group.

aws Services Search [Alt+S] N. Virginia voclabs/user2564760=104222196@student.swin.edu.au @ 2500-7723...

CloudFormation > Stacks > lab-application

Stacks (3) Filter by stack name Active View nested

Stacks

- lab-application 2023-07-03 16:13:02 UTC+0700 UPDATE\_COMPLETE
- lab-network 2023-07-03 16:04:07 UTC+0700 CREATE\_COMPLETE
- c84296a179548914370119t1w250077232490 2023-07-03 15:47:44 UTC+0700 CREATE\_COMPLETE

lab-application

Delete Update Stack actions Create stack

Stack info Events Resources Outputs Parameters Template Change sets

Overview

Stack ID [arn:aws:cloudformation:us-east-1:250077232490:stack/lab-application/cf18f920-1981-11ee-b7ac-125bfb7a4ae7](#) Description Application Template: Demonstrates how to reference resources from a different stack. This template provisions an EC2 instance in a VPC Subnet provisioned in a different stack.

Status UPDATE\_COMPLETE Status reason -

Root stack - Parent stack -

Created time 2023-07-03 16:13:02 UTC+0700 Deleted time -

Updated time 2023-07-03 16:22:17 UTC+0700

Drift status NOT\_CHECKED Last drift check time -

Termination protection Deactivated IAM role -

Tags Stack-level tags will apply to all supported resources in your stack. You can add up to 200 unique tags for each stack. Search tags

Steps 30-31: Wait for the update to complete.

aws Services Search [Alt+S] N. Virginia voclabs/user2564760=104222196@student.swin.edu.au @ 2500-7723...

New EC2 Experience Tell us what you think X

EC2 Dashboard  
EC2 Global View  
Events  
Limits  
▼ Instances  
Instances  
Instance Types  
Launch Templates  
Spot Requests  
Savings Plans  
Reserved Instances  
Dedicated Hosts  
Scheduled Instances  
Capacity Reservations  
▼ Images  
AMIs  
AMI Catalog  
▼ Elastic Block Store  
Volumes  
Snapshots  
Lifecycle Manager  
▼ Network & Security  
Security Groups  
Elastic IPs  
Placement Groups

### Security Groups (1/3) Info

Filter security groups

	Name	Security group ID	Security group name	VPC ID	Description	Owner	Inbound rules count	Outbound rules co...
<input type="checkbox"/>	-	sg-0fccc3b9f7928983	default	vpc-007a43b23682aeb0a	default VPC security gr...	250077232490	1 Permission entry	1 Permission entry
<input type="checkbox"/>	-	sg-0bc34e9b73374ad78	default	vpc-060de8cc7c0bf3277	default VPC security gr...	250077232490	1 Permission entry	1 Permission entry
<input checked="" type="checkbox"/>	Web Server Securit...	sg-0d0c990cc593c8085	lab-application-WebSe...	vpc-007a43b23682aeb0a	Enable HTTP ingress	250077232490	2 Permission entries	1 Permission entry

sg-0d0c990cc593c8085 - lab-application-WebServerSecurityGroup-16RYP2NBQFGQX

Details Inbound rules Outbound rules Tags

You can now check network connectivity with Reachability Analyzer [Run Reachability Analyzer](#)

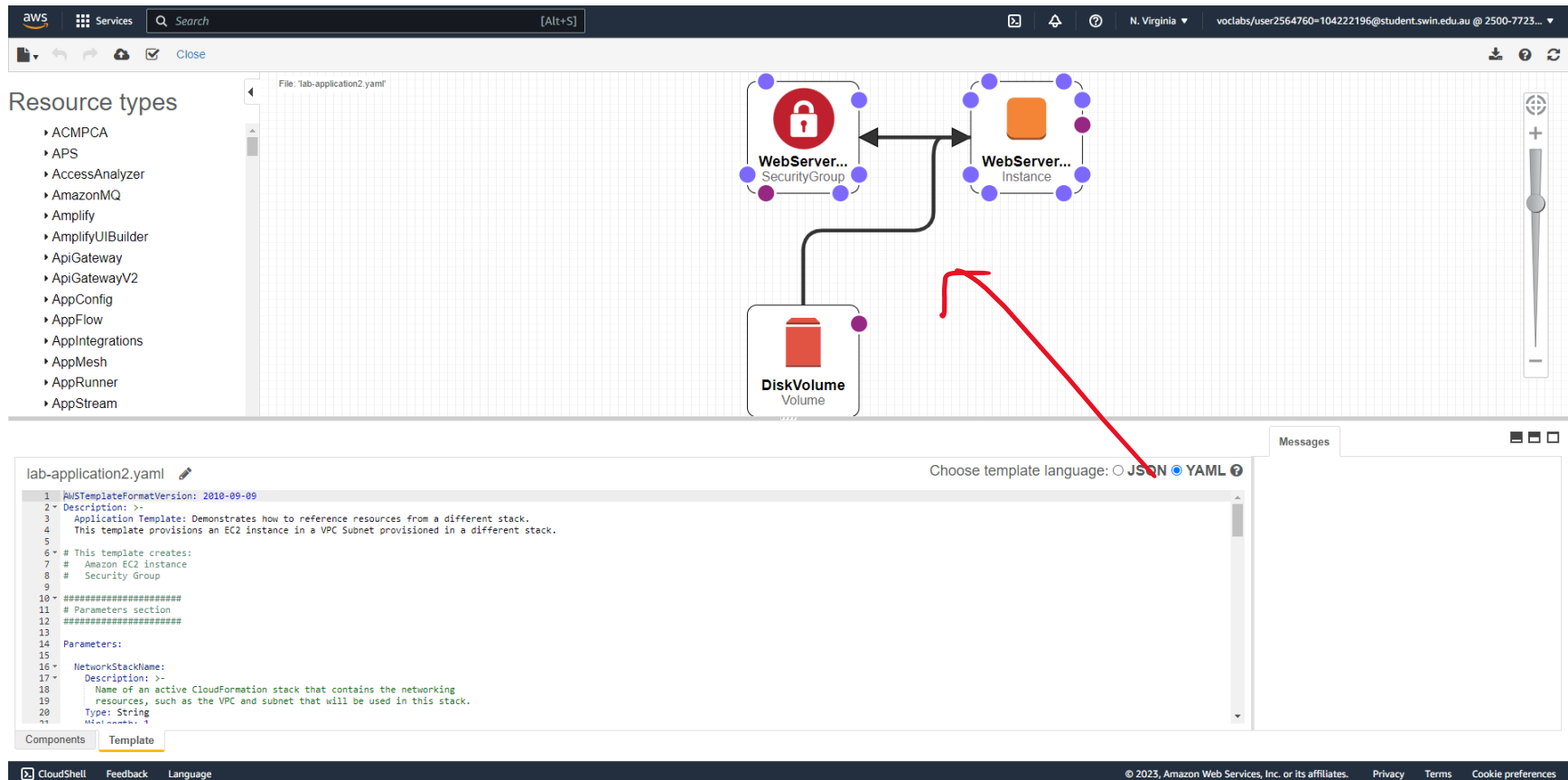
#### Inbound rules (2)

Filter security group rules

	Name	Security group rule...	IP version	Type	Protocol	Port range	Source	Description
<input type="checkbox"/>	-	sgr-0bf42bccb96b9d4b1	IPv4	SSH	TCP	22	0.0.0.0/0	-
<input type="checkbox"/>	-	sgr-0860419d7396dbff7	IPv4	HTTP	TCP	80	0.0.0.0/0	-

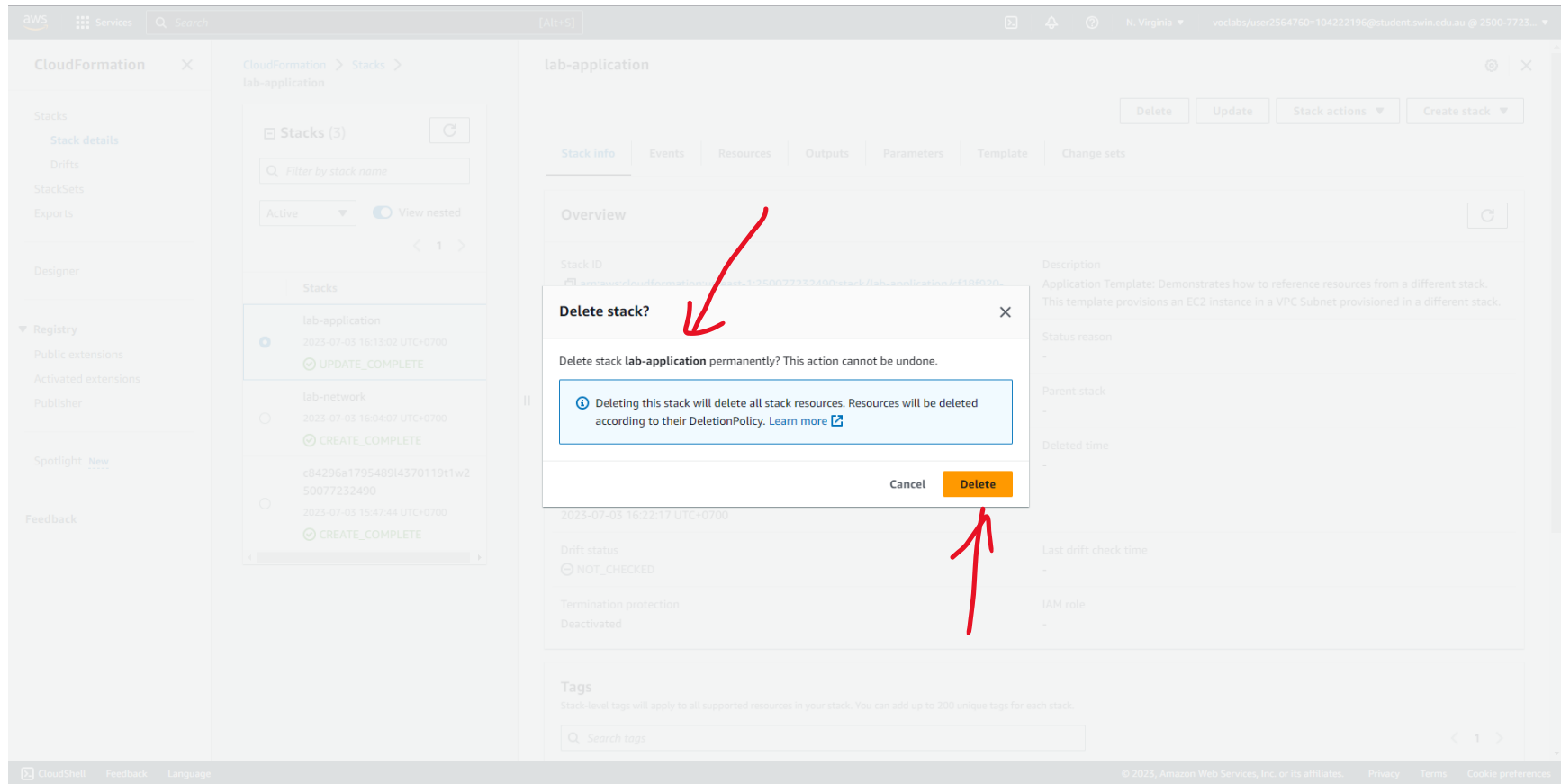
Steps 32-33: A new rule appears in the Web Server Security Group thanks to the new update.

## Task 4 - Exploring templates with AWS CloudFormation Designer



Steps 34-37: Uploading lab-application2.yaml to the designer results in the above diagram.

## Task 5 - Deleting the stack



Steps 38-41: Delete the application stack.

CloudFormation

Stacks (2)

Filter by stack name

Active View nested

Stacks

lab-network

2023-07-03 16:04:07 UTC+0700

CREATE\_COMPLETE

c84296a179548914370119t1w2

50077232490

2023-07-03 15:47:44 UTC+0700

CREATE\_COMPLETE

lab-network

Stack ID

arn:aws:cloudformation:us-east-1:250077232490:stack/lab-network/90f57de0-1980-11ee-a5b5-12c9b479192d

Description

Network Template: Sample template that creates a VPC with DNS and public IPs enabled.

Status

CREATE\_COMPLETE

Status reason

-

Root stack

-

Parent stack

-

Created time

2023-07-03 16:04:07 UTC+0700

Deleted time

-

Updated time

-

Drift status

NOT\_CHECKED

Last drift check time

-

Termination protection

Deactivated

IAM role

-

Tags

Stack-level tags will apply to all supported resources in your stack. You can add up to 200 unique tags for each stack.

Search tags

Step 42: The stack has been deleted and no longer appears in the list.

aws Services Search [Alt+S] N. Virginia voclabs/user2564760=104222196@student.swin.edu.au @ 2500-7723...

New EC2 Experience Tell us what you think

EC2 Dashboard  
EC2 Global View  
Events  
Limits

▼ Instances  
Instances  
Instance Types  
Launch Templates  
Spot Requests  
Savings Plans  
Reserved Instances  
Dedicated Hosts  
Scheduled Instances  
Capacity Reservations

▼ Images  
AMIs  
AMI Catalog

▼ Elastic Block Store  
Volumes  
**Snapshots**  
Lifecycle Manager

▼ Network & Security  
Security Groups  
Elastic IPs  
Placement Groups

### Snapshots (1) Info

Owned by me Search

Recycle Bin Actions Create snapshot

<input type="checkbox"/>	Name	Snapshot ID	Volume size	Description	Storage tier	Snapshot status	Started	Progress	Encryption
<input type="checkbox"/>	Web Data	<a href="#">snap-09dd75ac3081fbeb6</a>	100 GiB	-	Standard	Completed	2023/07/03 16:28 GMT+7	Available (100%)	Not encrypted

Select a snapshot above.

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Steps 43-44: An EBS snapshot has been created after the deletion of the application stack, which is what the delete policy dictates.