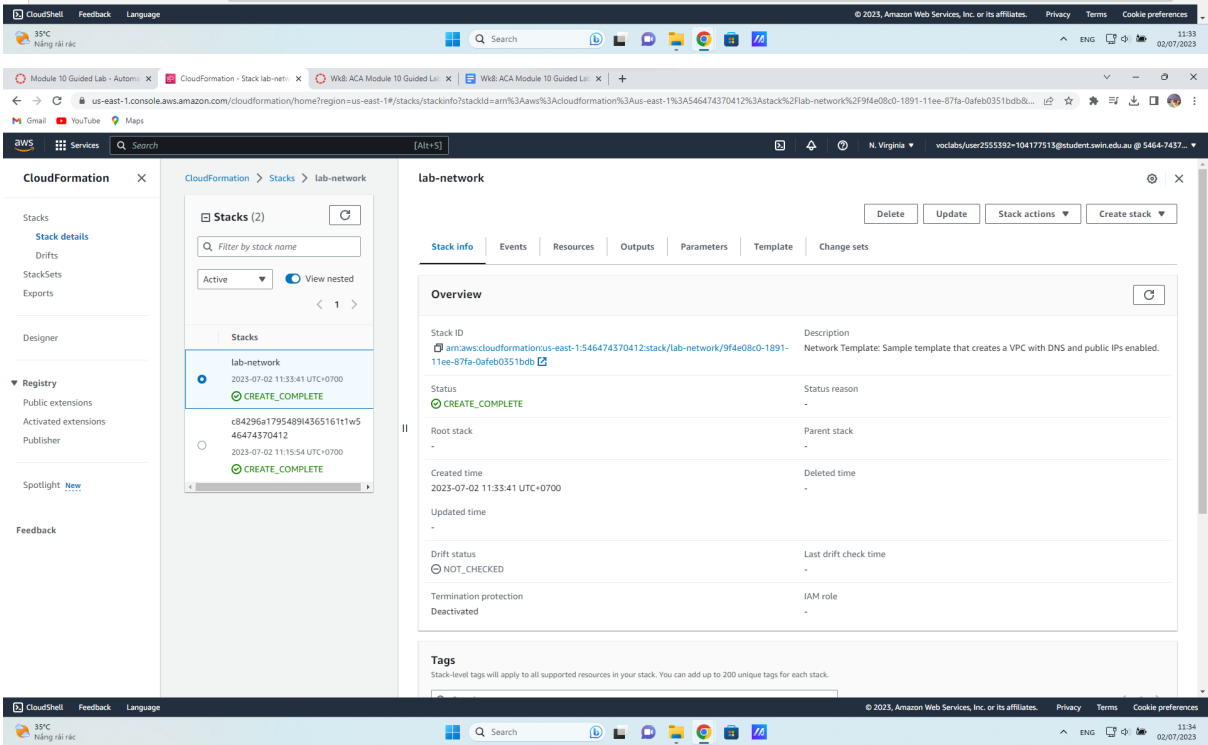
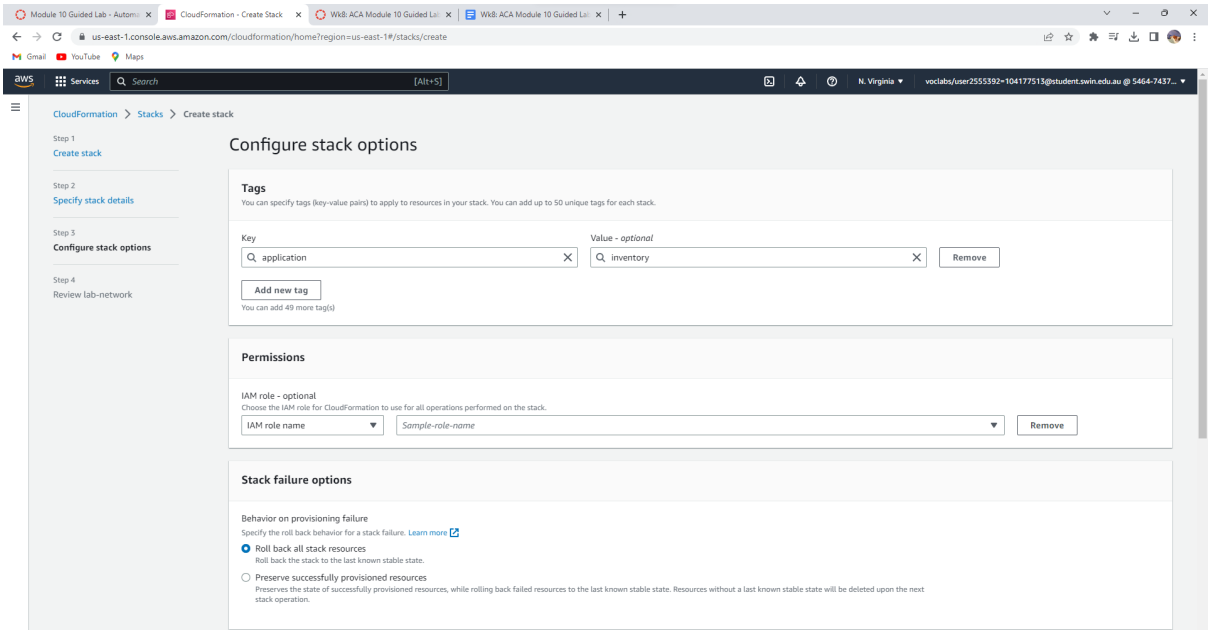


# These are my screenshots for Wk8: ACA Module 10 Guided Lab - Automating Infrastructure Deployment with AWS CloudFormation

The first screenshot shows the 'Create stack' page in the AWS CloudFormation console. 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' section, the 'Template is ready' radio button is selected. In the 'Specify template' section, the 'Upload a template file' radio button is selected, and a file named 'lab-network.yaml' is chosen. The 'S3 URL' field is populated with 'https://s3-us-east-1.amazonaws.com/cf-templates-8vt1p2oa63-us-east-1/2023-07-02T042904.978Zaih-lab-network.yaml'. The 'Next' button is highlighted in orange.

The second screenshot shows the 'Specify stack details' page in the AWS CloudFormation console. The left sidebar indicates the current step is 'Step 2: Specify stack details'. The main content area is titled 'Specify stack details' and contains two sections: 'Stack name' and 'Parameters'. In the 'Stack name' section, the text 'lab-network' is entered in the 'Stack name' field. In the 'Parameters' section, a message states 'No parameters' and 'There are no parameters defined in your template'. The 'Next' button is highlighted in orange.



Module 10 Guided Lab - Automate CloudFormation - Stack lab-net- Wk8: ACA Module 10 Guided Lab - Wk8: ACA Module 10 Guided Lab -

us-east-1.console.aws.amazon.com/cloudformation/home?region=us-east-1#/stacks/resources?stackId=arn%3Aaws%3Acloudformation%3Aus-east-1%3A546474370412%3Astack%2Flab-network%2F9f4e08c0-1891-11ee-87fa-0af60351bdb...

CloudFormation > Stacks > lab-network

Stacks (2)

Filter by stack name

Active View nested

Stacks

lab-network

2023-07-02 11:33:41 UTC+0700

CREATE\_COMPLETE

c84296a1795489143651611w546474370412

2023-07-02 11:15:54 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	lgw-0d1ee91e4d50673db	AWS::EC2::InternetGateway	CREATE_COMPLETE	-
PublicRoute	lab-n-Publi-1N0Z3DLKGYOZC	AWS::EC2::Route	CREATE_COMPLETE	-
PublicRouteTable	rtb-0dd88b463361cb53c	AWS::EC2::RouteTable	CREATE_COMPLETE	-
PublicSubnet	subnet-014f81ef37a110ec5	AWS::EC2::Subnet	CREATE_COMPLETE	-
PublicSubnetNetworkAcIAsso- tiation	aclassoc-08114342f37045927	AWS::EC2::SubnetNetworkAcIAs- sociation	CREATE_COMPLETE	-
PublicSubnetRouteTableAsso- tiation	rtbassoc-002f951fee72a36ba	AWS::EC2::SubnetRouteTableAs- sociation	CREATE_COMPLETE	-
VPC	vpc-0a0198bac265e821	AWS::EC2::VPC	CREATE_COMPLETE	-
VPCGatewayAttachment	lab-n-VPCGa-FQDQCR83NCJF	AWS::EC2::VPCGatewayAttachm- ent	CREATE_COMPLETE	-

CloudShell Feedback Language

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N. Virginia

voclabs/user2555392-104177513@student.swin.edu.au @ 5464-7437...

Module 10 Guided Lab - Automate CloudFormation - Stack lab-net- Wk8: ACA Module 10 Guided Lab - Wk8: ACA Module 10 Guided Lab -

us-east-1.console.aws.amazon.com/cloudformation/home?region=us-east-1#/stacks/events?stackId=arn%3Aaws%3Acloudformation%3Aus-east-1%3A546474370412%3Astack%2Flab-network%2F9f4e08c0-1891-11ee-87fa-0af60351bdb&filt...

CloudFormation > Stacks > lab-network

Stacks (2)

Filter by stack name

Active View nested

Stacks

lab-network

2023-07-02 11:33:41 UTC+0700

CREATE\_COMPLETE

c84296a1795489143651611w546474370412

2023-07-02 11:15:54 UTC+0700

CREATE\_COMPLETE

Events (26)

Search events

Timestamp	Logical ID	Status	Status reason
2023-07-02 11:34:40 UTC+0700	lab-network	CREATE_COMPLETE	-
2023-07-02 11:34:38 UTC+0700	PublicRoute	CREATE_COMPLETE	-
2023-07-02 11:34:23 UTC+0700	PublicRoute	CREATE_IN_PROGRESS	Resource creation Initiated
2023-07-02 11:34:23 UTC+0700	PublicSubnetNetworkAcIAssociation	CREATE_COMPLETE	-
2023-07-02 11:34:22 UTC+0700	PublicRoute	CREATE_IN_PROGRESS	-
2023-07-02 11:34:20 UTC+0700	VPCGatewayAttachment	CREATE_COMPLETE	-
2023-07-02 11:34:15 UTC+0700	PublicSubnetRouteTableAssociation	CREATE_COMPLETE	-
2023-07-02 11:34:15 UTC+0700	PublicSubnetRouteTableAssociation	CREATE_IN_PROGRESS	Resource creation Initiated
2023-07-02 11:34:13 UTC+0700	PublicSubnetRouteTableAssociation	CREATE_IN_PROGRESS	-
2023-07-02 11:34:12 UTC+0700	PublicRouteTable	CREATE_COMPLETE	-
2023-07-02 11:34:07 UTC+0700	PublicSubnetNetworkAcIAssociation	CREATE_IN_PROGRESS	Resource creation Initiated
2023-07-02 11:34:07 UTC+0700	PublicSubnetNetworkAcIAssociation	CREATE_IN_PROGRESS	-
2023-07-02 11:34:05 UTC+0700	VPCGatewayAttachment	CREATE_IN_PROGRESS	Resource creation Initiated
2023-07-02 11:34:04 UTC+0700	VPCGatewayAttachment	CREATE_IN_PROGRESS	-
2023-07-02 11:34:04 UTC+0700	PublicSubnet	CREATE_COMPLETE	-
2023-07-02 11:34:02 UTC+0700	InternetGateway	CREATE_COMPLETE	-
2023-07-02 11:34:01 UTC+0700	PublicSubnet	CREATE_IN_PROGRESS	Resource creation Initiated
2023-07-02 11:34:01 UTC+0700	PublicRouteTable	CREATE_IN_PROGRESS	Resource creation Initiated

Module 10 Guided Lab - Autom... CloudFormation - Stack lab-net-... Wk8: ACA Module 10 Guided L... Wk8: ACA Module 10 Guided L... +

us-east-1.console.aws.amazon.com/cloudformation/home?region=us-east-1#/stacks/outputs?stackId=arn%3Aaws%3Acloudformation%3Aus-east-1%3A545474370412%3Astack%2Flab-network%2F94e080-1891-11ee-87fa-0af60351bdc&f... Gmail YouTube Maps

CloudFormation Stacks lab-network

Stacks (2)

Filter by stack name

Active View nested

Stacks

lab-network

2023-07-02 11:33:41 UTC+0700

CREATE\_COMPLETE

c84296a1795489143651611w546474370412

2023-07-02 11:15:54 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

Key	Value	Description	Export name
PublicSubnet	subnet-014f81ef37a110ec5	The subnet ID to use for public web servers	lab-network-SubnetID
VPC	vpc-0a0198bcac265e821	VPC ID	lab-network-VPCID

CloudShell Feedback Language

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Module 10 Guided Lab - Autom... CloudFormation - Create Stack Wk8: ACA Module 10 Guided L... Wk8: ACA Module 10 Guided L... +

us-east-1.console.aws.amazon.com/cloudformation/home?region=us-east-1#/stacks/create Gmail YouTube Maps

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

Choose file lab-application.yaml

JSON or YAML, formatted file

S3 URL: https://s3.us-east-1.amazonaws.com/cf-templates-8vt1j2oa63-us-east-1/2023-07-02T043734.72628mf-lab-application.yaml

View in Designer

Cancel Next

Module 10 Guided Lab - Automate CloudFormation - Create StackWk8 ACA Module 10 Guided LabWk8 ACA Module 10 Guided Lab

us-east-1.console.aws.amazon.com/cloudformation/home?region=us-east-1#/stacks/create

ServicesSearch[Alt+S]

N. Virginiavoclabs/user2555392~104177513@student.swin.edu.au @ 5464-7437...

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

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Search

ENG02/07/2023

Module 10 Guided Lab - Automate CloudFormation - Create StackWk8 ACA Module 10 Guided LabWk8 ACA Module 10 Guided Lab

us-east-1.console.aws.amazon.com/cloudformation/home?region=us-east-1#/stacks/create

ServicesSearch[Alt+S]

N. Virginiovoclabs/user2555392~104177513@student.swin.edu.au @ 5464-7437...

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

applicationXinventoryXRemove

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.

Module 10 Guided Lab - Automate CloudFormation - Stack lab-app - Wk8: ACA Module 10 Guided Lab - Wk8: ACA Module 10 Guided Lab -

us-east-1.console.aws.amazon.com/cloudformation/home?region=us-east-1#/stacks/outputs?stackId=arn%3Aaws%3Acloudformation%3Aus-east-1%3A545474370412%3Astack%2Flab-application%2F557e140-1892-11ee-b196-0a4c6ec72bfff&file...

CloudFormation

Stacks (3)

Filter by stack name

Active View nested

Stacks

lab-application  
2023-07-02 11:38:47 UTC+0700  
CREATE\_COMPLETE

lab-network  
2023-07-02 11:33:41 UTC+0700  
CREATE\_COMPLETE

c84296a179548943651611w5  
46474370412  
2023-07-02 11:15:54 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://ec2-3-86-224-69.compute-1.amazonaws.com">http://ec2-3-86-224-69.compute-1.amazonaws.com</a>	URL of the sample website	-

CloudShell Feedback Language

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Module 10 Guided Lab - Automate CloudFormation - Stack lab-app - Wk8: ACA Module 10 Guided Lab - Wk8: ACA Module 10 Guided Lab -

ec2-3-86-224-69.compute-1.amazonaws.com

Không bảo mật | ec2-3-86-224-69.compute-1.amazonaws.com

Introducing AWS CloudFormation

Use simple templates to deploy your AWS infrastructure.

> Learn more...

Congratulations, you have successfully launched the AWS CloudFormation sample.

35°C  
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Search

ENG 11:41  
02/07/2023

Module 10 Guided Lab - Autom... EC2 Management Console Wk8: ACA Module 10 Guided L... Wk8: ACA Module 10 Guided L... +

us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#SecurityGroups:

Services [Alt+S]

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

### 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 checked="" type="checkbox"/>	Web Server Secur...	sg-0d5dbcc337b3da4f	lab-application-WebSe...	vpc-0a0198bac265e821	Enable HTTP ingress	546474370412	1 Permission entry	1 Permission entry
<input type="checkbox"/>	-	sg-0575b0606e3fbc3c	default	vpc-04590489a3c29a1d5	default VPC security gr...	546474370412	1 Permission entry	1 Permission entry
<input type="checkbox"/>	-	sg-0de35dd624c5f5108	default	vpc-0a0198bac265e821	default VPC security gr...	546474370412	1 Permission entry	1 Permission entry

sg-0d5dbcc337b3da4f - lab-application-WebServerSecurityGroup-JR5V7FLR97DK

Details Inbound rules Outbound rules Tags

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

#### Inbound rules (1/1)

Filter security group rules

	Name	Security group rule...	IP version	Type	Protocol	Port range	Source	Description
<input checked="" type="checkbox"/>	-	sg-0842d4490b69215...	IPv4	HTTP	TCP	80	0.0.0.0/0	-

https://us-east-1.console.aws.amazon.com/cloudformation/home?region=us-east-1#

CloudFormation > Stacks > lab-application > Update stack

### Update stack

Step 1: Update stack

Step 2: Specify stack details

Step 3: Configure stack options

Step 4: Review lab-application

#### 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

☒ Choose file lab-application2.yaml  
JSON or YAML, formatted file

S3 URL: https://s3.us-east-1.amazonaws.com/cf-templates-8vt1j2oa63-us-east-1/2023-07-02T044316.3862y97-lab-application2.yaml [View in Designer](#)

[Cancel](#) [Next](#)

Module 10 Guided Lab - Automate CloudFormation - Stack lab-app - Wk8: ACA Module 10 Guided Lab - Wk8: ACA Module 10 Guided Lab

us-east-1.console.aws.amazon.com/cloudformation/home?region=us-east-1#/stacks/update?stackId=arn%3Aaws%3Acloudformation%3Aus-east-1%3A546474370412%3Astack%2Flab-application%2F557fe140-1892-11ee-b196-0a4c6ec72bff

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-0d5dbcc33f7b3da4f	AWS::EC2::SecurityGroup	False	-	-

View change set

Cancel Previous Submit

CloudFormation > Stacks > lab-application

Stacks (3)

Filter by stack name

Active View nested

Stacks
lab-application 2023-07-02 11:38:47 UTC+0700 UPDATE_COMPLETE
lab-network 2023-07-02 11:33:41 UTC+0700 CREATE_COMPLETE
c84296a17954891a3651611w546474370412 2023-07-02 11:15:54 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-1:546474370412:stack/lab-application/557fe140-1892-11ee-b196-0a4c6ec72bff

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  
2023-07-02 11:38:47 UTC+0700

Deleted time  
-

Updated time  
2023-07-02 11:44:12 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.



Module 10 Guided Lab - Autom... x EC2 Management Console x W&B: ACA Module 10 Guided L... x W&B: ACA Module 10 Guided L... x +

us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#SecurityGroups:

Services [Alt+S]

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

### 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...
Web Server Secur...	sg-0d5dbcc337b3da4f	lab-application-WebSe...	vpc-0a0198bcac265e821	Enable HTTP ingress	546474370412	2 Permission entries	1 Permission entry
...	sg-0575b0606e3fbc3c	default	vpc-04590489a3c29a1d5	default VPC security gr...	546474370412	1 Permission entry	1 Permission entry
...	sg-0de35dd624c5f5108	default	vpc-0a0198bcac265e821	default VPC security gr...	546474370412	1 Permission entry	1 Permission entry

sg-0d5dbcc337b3da4f - lab-application-WebServerSecurityGroup-JR5V7FLR97DK

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
...	sgr-0f14eb5fe6378a28b	IPv4	SSH	TCP	22	0.0.0.0/0	-
...	sgr-0842d490b69215...	IPv4	HTTP	TCP	80	0.0.0.0/0	-

Module 10 Guided Lab - Autom... x AWS CloudFormation Designer x W&B: ACA Module 10 Guided L... x W&B: ACA Module 10 Guided L... x +

us-east-1.console.aws.amazon.com/cloudformation/designer/home?region=us-east-1

Services [Alt+S]

Resource types

- ACMPA
- APS
- AccessAnalyzer
- AmazonMQ
- Amplify
- AmplifyUIBuilder
- ApiGateway
- ApiGatewayV2
- AppConfig
- AppFlow
- AppIntegrations
- AppMesh
- AppRunner
- AppStream

File: lab-application2.yaml

lab-application2.yaml

Choose template language: JSON YML

```
1 AWSTemplateFormatVersion: 2010-09-09
2 Description: >
3 Application Template: Demonstrates how to reference resources from a different stack.
4 This template provisions an EC2 Instance in a VPC Subnet provisioned in a different stack.
5
6 # This template creates:
7 # Amazon EC2 Instance
8 # Security Group
9
10 # Parameters section
11 # Parameters section
12 # Parameters section
13
14 Parameters:
15
16 NetworkStackName:
17 Description: >
18 Name of an active CloudFormation stack that contains the networking
19 resources, such as the VPC and subnet that will be used in this stack.
```

Module 10 Guided Lab - Automate CloudFormation Stack

us-east-1.console.aws.amazon.com/cloudformation/home?region=us-east-1#/stacks?filteringText=&filteringStatus=active&viewNesting=true&stackId=arn%3Aaws%3Acloudformation%3Aus-east-1%3A546474370412%3Astack%2Flab-application%2F...

CloudFormation

Stacks

Stack details

StackSets

Exports

Designer

▼ Registry

Public extensions

Activated extensions

Publisher

Spotlight [New](#)

Feedback

Delete initiated for amaws:cloudformation:us-east-1:546474370412:stack/lab-application/557fe140-1892-11ee-b196-0a4c6ec72bff

CloudFormation > Stacks

Stacks (3)

Filter by stack name

Active

View nested

Stack name	Status	Created time	Description
lab-application	UPDATE_COMPLETE	2023-07-02 11:38:47 UTC+0700	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.
lab-network	CREATE_COMPLETE	2023-07-02 11:33:41 UTC+0700	Network Template: Sample template that creates a VPC with DNS and public IP's enabled.
c84296a1795489f43651611w546474370412	CREATE_COMPLETE	2023-07-02 11:15:54 UTC+0700	new bucket

CloudShell Feedback Language

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Module 10 Guided Lab - Automate CloudFormation Stack

Snapshots | EC2 Management Console

us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#Snapshots:

CloudFormation

New EC2 Experience

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

Snapshots (1) Info

Owned by me

Search

Name	Snapshot ID	Volume size	Description	Storage tier	Snapshot status	Started	Progress	Encryption
Web Data	snap-036533ef076886c42	100 GiB	-	Standard	Completed	2023/07/02 11:48 GMT+7	Available (100%)	Not encrypted

Select a snapshot above.