

Cloud Formation Assignment2 – VPC AND SUBNET TEMPLATE

CloudFormation

Stacks

StackSets

Exports

Application Composer [New](#)

laC generator

▼ Registry

Public extensions

Activated extensions

Publisher

Spotlight

Feedback

Management & Governance

AWS CloudFormation

Model and provision all your cloud infrastructure

AWS CloudFormation provides a common language to describe and provision all the infrastructure resources in your environment in a safe, repeatable way.

Create a CloudFormation stack

Use your own template or a sample template to quickly get started.

Create stack

[Getting started](#)

What is AWS CloudFormation

Getting started with CloudFormation

[Learn template basics](#)

Quick starts

More resources

Documentation

API reference

FAQs



CloudFormation > Stacks

Stacks (0)

Delete

Update

Stack actions ▾

Create stack ▾

Q

Filter by stack name

Filter status

Active ▾

View nested

< 1 >

Stack name	Status	Created time ▾	Description
<div><div>No stacks</div><div>No stacks to display</div><div>Create stack</div><div>View getting started guide</div></div>			



CloudFormation > Stacks > Create stack

- Step 1
- Create stack
- Step 2
- Specify stack details
- Step 3
- Configure stack options
- Step 4
- Review and create

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.

☒ Choose an existing template
Upload or choose an existing template.

☐ Use a sample template
Choose from our sample template library.

☐ Build from Application Composer
Create a template using a visual builder.

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
Provide an Amazon S3 URL to your template.

☒ Upload a template file
Upload your template directly to the console.

☐ Sync from Git - *new*
Sync a template from your Git repository.

Upload a template file

Choose file

JSON or YAML formatted file

S3 URL: Will be generated when template file is uploaded

View in Application Composer

Cancel

Next

VPCANDSUBNETCFN.YML

FileEditView

Resources:
myVPC:
 Type: AWS::EC2::VPC
 Properties:
 CidrBlock: 10.0.0.0/16
 EnableDnsSupport: 'true'
 EnableDnsHostnames: 'true'
 Tags:
 - Key: stack
 Value: production
mySubnet:
 Type: AWS::EC2::Subnet
 Properties:
 VpcId: !Ref myVPC
 CidrBlock: 10.0.0.0/24
 AvailabilityZone: "us-east-1a"
 Tags:
 - Key: stack
 Value: production

Ln 19, Col 26413 characters100%Windows (CRLF)UTF-8

Prerequisite - 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.

- Build from Application Composer
Create a template using a visual builder.

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

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

- ☐ Sync from Git - *new*
Sync a template from your Git repository.

Upload a template file

VPCANDSUBNETCFN.YML.txt

JSON or YAML formatted file

S3 URL: <https://s3.us-east-1.amazonaws.com/cf-templates-1t54q2k6ujegq-us-east-1/2024-05-20T150507.524Zatc-VPCANDSUBNETCFN.YML.txt>

[View in Application Composer](#)

Cancel

Next

CloudFormation > Stacks > Create stack

- Step 1
- Create stack
- Step 2
- Specify stack details
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- Configure stack options
- Step 4
- Review and create

Specify stack details

Provide a stack name

Stack name

CLOUDFORMATIONASSIGNMENT2

Stack name must be 1 to 128 characters, start with a letter, and only contain alphanumeric characters. Character count: 25/128.

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

- ☐ **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.

-

You can set additional options for your stack, like notification options and a stack policy. [Learn more](#)

- Cancel Previous Next

Step 1

[Create stack](#)

Step 2

Specify stack details

Step 3

Configure stack options

Step 4

Review and create

Edit

Step 1: Specify template

Prerequisite - Prepare template

Template

Template is ready

Template

Template URL

<https://s3.us-east-1.amazonaws.com/cf-templates-1t54q2k6ujegq-us-east-1/2024-05-20T150507.524Zatc-VPCANDSUBNETCFN.YML.txt>

Stack description

Step 2: Specify stack details

Edit

Provide a stack name

Stack name

CLOUDFORMATIONASSIGNMENT2

Parameters

🔍 Search

< 1 > ⚙️

Key	Value
No parameters	
There are no parameters defined in your template	

Step 3: Configure stack options

Edit

Tags

🔍 Search tags

< 1 >

Key	Value
No tags	
There are no tags defined for this stack	

Permissions

No permissions	
There is no IAM role associated with this stack	

Stack failure options

	<div>Stack failure options</div> <div><div>Rollback on failure</div><div>Activated</div></div> <div><div>Delete newly created resources during a rollback</div><div>Deactivated</div></div>	
	<div>Stack policy</div> <div><div>No stack policy</div><div>There is no stack policy defined</div></div>	
	<div>Rollback configuration</div> <div><div>Monitoring time</div><div>-</div></div> <div><div>CloudWatch alarm ARN</div><div>-</div></div>	
	<div>Notification options</div> <div><div>SNS topic ARN</div><div><div>No notification options</div><div>There are no notification options defined</div></div></div>	

🔍 *Filter by stack name*

Filter status

Active ▼

View nested

1

Stacks

CLOUDFORMATIONASSIGNMENT2

2024-05-20 20:38:41 UTC+0530

✔ CREATE_COMPLETE

CLOUDFORMATIONASSIGNMENT2

 |

Delete

Update

Stack actions ▼

Create stack ▼

Stack info

Events

Resources

Outputs

Parameters

Template

Change sets

Git sync - new

Events (10)

Detect root cause

Search events

Timestamp	Logical ID	Status	Detailed status	Status reason
2024-05-20 20:39:01 UTC+0530	CLOUDFORMATIONASSIGNMEN T2	✔ CREATE_COMPLETE	-	-
2024-05-20 20:39:00 UTC+0530	mySubnet	✔ CREATE_COMPLETE	-	-
2024-05-20 20:38:59 UTC+0530	CLOUDFORMATIONASSIGNMEN T2	ⓘ CREATE_IN_PROGRESS	✔ CONFIGURATION_COMPLET E	Eventual consistency check initiated
2024-05-20 20:38:58 UTC+0530	mySubnet	ⓘ CREATE_IN_PROGRESS	✔ CONFIGURATION_COMPLET E	Eventual consistency check initiated
2024-05-20 20:38:58 UTC+0530	mySubnet	ⓘ CREATE_IN_PROGRESS	-	Resource creation Initiated
2024-05-20 20:38:57 UTC+0530	mySubnet	ⓘ CREATE_IN_PROGRESS	-	-
2024-05-20 20:38:56 UTC+0530	myVPC	✔ CREATE_COMPLETE	-	-
2024-05-20 20:38:45 UTC+0530	myVPC	ⓘ CREATE_IN_PROGRESS	-	Resource creation Initiated
2024-05-20 20:38:44 UTC+0530	myVPC	ⓘ CREATE_IN_PROGRESS	-	-
2024-05-20 20:38:41 UTC+0530	CLOUDFORMATIONASSIGNMEN T2	ⓘ CREATE_IN_PROGRESS	-	User Initiated

CloudFormation > Stacks > CLOUDFORMATIONASSIGNMENT2

Stacks (1)

Filter by stack name

Filter status

Active

View nested

< 1 >

Stacks

CLOUDFORMATIONASSIGNMENT2

2024-05-20 20:38:41 UTC+0530

CREATE_COMPLETE

CLOUDFORMATIONASSIGNMENT2

Delete

Update

Stack actions

Create stack

Stack info

Events

Resources

Outputs

Parameters

Template

Change sets

Git sync - new

Resources (2)

Search resources

< 1 >

Logical ID	Physical ID	Type	Status	Module
mySubnet	subnet-007170941b2da94ce	AWS::EC2::Subnet	CREATE_COMPLETE	-
myVPC	vpc-05834d3da75d58b03	AWS::EC2::VPC	CREATE_COMPLETE	-



[EC2](#) > [Instances](#) > Launch an instance

Launch an instance [Info](#)

Amazon EC2 allows you to create virtual machines, or instances, that run on the AWS Cloud. Quickly get started by following the simple steps below.

Name and tags [Info](#)

Name

CFinstance

Add additional tags

▼ **Application and OS Images (Amazon Machine Image)** [Info](#)

An AMI is a template that contains the software configuration (operating system, application server, and applications) required to launch your instance. Search or Browse for AMIs if you don't see what you are looking for below

Q Search our full catalog including 1000s of application and OS images

Recents

Quick Start

Amazon Linux

aws

macOS

Mac

Ubuntu

ubuntu

Windows

Microsoft

Red Hat

Red Hat

SUSE Li

SUS

Q

Browse more AMIs

Including AMIs from AWS, Marketplace and the Community

Amazon Machine Image (AMI)

Amazon Linux 2023 AMI

Free tier eligible

▼ Summary

Number of instances

[Info](#)

1

[Software Image \(AMI\)](#)
Amazon Linux 2023 AMI 2023.4.2...[read more](#)
ami-0bb84b8ffd87024d8

[Virtual server type \(instance type\)](#)
t2.micro

[Firewall \(security group\)](#)
New security group

[Storage \(volumes\)](#)
1 volume(s) - 8 GiB

[i](#) **Free tier:** In your first year includes

×

750 hours of t2.micro (or t3.micro in the Regions in which t2.micro is unavailable) instance usage on free tier AMIs per month, 750 hours of public IPv4 address usage per month, 30 GiB of EBS storage, 2 million IOs, 1 GB of snapshots, and 100 GB of bandwidth to the internet.

Cancel

Launch instance

[Review commands](#)

CloudShell Feedback

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Amazon Linux 2023 AMI Free tier eligible

ami-0bb84b8ffd87024d8 (64-bit (x86), uefi-preferred) / ami-04b395c05193adbdb (64-bit (Arm), uefi)

Virtualization: hvm ENA enabled: true Root device type: ebs

Amazon Linux 2023 AMI 2023.4.20240513.0 x86_64 HVM kernel-6.1

64-bit (x86) ▼

uefi-preferred

ami-0bb84b8ffd87024d8

Verified provider

[Info](#) | [Get advice](#)

t2.micro	Free tier eligible
Family: t2 1 vCPU 1 GiB Memory Current generation: true	
On-Demand Windows base pricing: 0.0162 USD per Hour	
On-Demand SUSE base pricing: 0.0116 USD per Hour	
On-Demand RHEL base pricing: 0.0716 USD per Hour	
On-Demand Linux base pricing: 0.0116 USD per Hour	

Free tier eligible

☐ All generations

Compare instance types

Additional costs apply for AMIs with pre-installed software

Info

You can use a key pair to securely connect to your instance. Ensure that you have access to the selected key pair before you launch the instance.

Key pair name - *required*

Proceed without a key pair (Not recommended) Default value ▼

Default value ▼

 [Create new key pair](#)

Number of instances [Info](#)

1

Amazon Linux 2023 AMI 2023.4.2...[read more](#)
ami-0bb84b8ffd87024d8

t2.micro

New security group

1 volume(s) - 8 GiB

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Cancel

Launch instance

Review commands

VPC - *required* | [Info](#)



subnet-007170941b2da94ce

[Create new subnet](#)

A security group is a set of firewall rules that control the traffic for your instance. Add rules to allow specific traffic to reach your instance.

- Create security group

☐ Select existing security group

launch-wizard-7

This security group will be added to all network interfaces. The name can't be edited after the security group is created. Max length is 255 characters. Valid characters: a-z, A-Z, 0-9, spaces, and .-:/()#,@[]+=&:{}\$*

launch-wizard-7 created 2024-05-20T15:14:13.455Z

▼ Security group rule 1 (TCP, 22, 0.0.0.0/0)

Remove

Type | Info

ssh

Protocol Info

TCP

Port range | Info

22

Source type

Anywhere

Source | Info

☐ Add CIDR prefix list or security

Description - optional

e.g. CCH for admin desktop

Number of instances | Info

1

Software Image (AMI)

Amazon Linux 2023 AMI 2023.4.2...[read more](#)
ami-0bb84b8ffd87024d8

Virtual server type (instance type)

t2.micro

Firewall (security group)

New security group

Storage (volumes)

1 volume(s) - 8 GiB

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Cancel

Launch instance

Review commands

▼ Summary

Software Image (AMI)

Amazon Linux 2023 AMI 2023.4.2...[read more](#)
ami-0bb84b8ffd87024d8

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Cancel

Launch instance

Review commands

Anywhere

Add CIDR, prefix list or security

e.g. SSH for admin desktop

0.0.0.0/0

Rules with source of 0.0.0.0/0 allow all IP addresses to access your instance. We recommend setting security group rules to allow access from known IP addresses only.

Add security group rule

Advanced network configuration

Configure storage

Info

Advanced

1x

8

GiB

gp3

Root volume (Encrypted)

Free tier eligible customers can get up to 30 GB of EBS General Purpose (SSD) or Magnetic storage

Add new volume

Click refresh to view backup information

The tags that you assign determine whether the instance will be backed up by any Data Lifecycle Manager policies.

0 x File systems

Edit

Advanced details

Info

Summary

Number of instances

Info

1

Software Image (AMI)

Amazon Linux 2023 AMI 2023.4.2...read more

ami-0bb84b8ffd87024d8

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Cancel

Launch instance

Review commands

N. Virginia

Intellipaate-Swapnil

EC2 > Instances > i-013afa2ae90ce4d82 > Manage tags

Manage tags

Info

A tag is a custom label that you assign to an AWS resource. You can use tags to help organize and identify your instances.

Key

Q

Name

X

Q

CInstance

X

Remove

Add new tag

You can add up to 49 more tags.

Cancel

Save

CloudShell

Feedback

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