

Assignment 7 :: Launch AWS EC2 instance with Security group and Key using cloud formation template

Goto CloudFormation dashboard and click CreateStack and then follow the below steps



Hari_CloudFormati
on.template

CloudFormation > Stacks > Create stack

Step 1
Specify template

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

JSON or YAML formatted file

S3 URL:

CloudFormation > Stacks > Create stack

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Specify stack details

Stack name

Stack name

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.

KeyName
The EC2 Key Pair to allow SSH access to the instances

Specify template

Step 2
Specify stack details

Step 3
Configure stack options

Step 4
Review

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. [Learn more](#)

Permissions

Choose an IAM role to explicitly define how CloudFormation can create, modify, or delete resources in the stack. If you don't choose a role, CloudFormation uses permissions based on your user credentials. [Learn more](#)

IAM role - optional

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

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.

Advanced options

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

Stack policy

Defines the resources that you want to protect from unintentional updates during a stack update.

Rollback configuration

Specify alarms for CloudFormation to monitor when creating and updating the stack. If the operation breaches an alarm threshold, CloudFormation rolls it back. [Learn more](#)

Notification options

Stack creation options

Cancel

Previous

Next

Review the created stack and click “Create stack”

Once the stack is created it will automatically start the process to create an instance

CloudFormation > Stacks > Assignment-7

Assignment-7

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

Stacks (1)

Filter by stack name

Active View nested

Assignment-7
2022-06-23 16:01:31 UTC+0530
CREATE_IN_PROGRESS

Events (1)

Search events

Timestamp	Logical ID	Status	Status reason
2022-06-23 16:01:31 UTC+0530	Assignment-7	CREATE_IN_PROGRESS	User Initiated

CloudFormation > Stacks > Assignment-7

Assignment-7

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

Stacks (1)

Filter by stack name

Active View nested

Assignment-7
2022-06-23 16:01:31 UTC+0530
CREATE_COMPLETE

Events (32)

Search events

Timestamp	Logical ID	Status	Status reason
2022-06-23 16:03:16 UTC+0530	Assignment-7	CREATE_COMPLETE	-
2022-06-23 16:03:14 UTC+0530	WebAppEIP	CREATE_COMPLETE	-
2022-06-23 16:02:57 UTC+0530	WebAppEIP	CREATE_IN_PROGRESS	Resource creation Initiated
2022-06-23 16:02:42 UTC+0530	WebAppEIP	CREATE_IN_PROGRESS	-
2022-06-23 16:02:39 UTC+0530	WebAppInstance	CREATE_COMPLETE	-
2022-06-23 16:02:33 UTC+0530	DefaultPublicRoute	CREATE_COMPLETE	-
2022-06-23 16:02:18 UTC+0530	DefaultPublicRoute	CREATE_IN_PROGRESS	Resource creation Initiated
2022-06-23 16:02:16 UTC+0530	DefaultPublicRoute	CREATE_IN_PROGRESS	-
2022-06-23 16:02:14 UTC+0530	InternetGatewayAttachment	CREATE_COMPLETE	-
2022-06-23 16:02:13 UTC+0530	PublicSubnet1RouteTableAssociation	CREATE_COMPLETE	-
2022-06-23 16:02:13 UTC+0530	PublicSubnet1RouteTableAssociation	CREATE_IN_PROGRESS	Resource creation Initiated

Result :: Instance is created successfully and the webpage is also reachable

Successfully started i-09f96705b47c29207

Instances (1/1) Info

Search

Security group name = Assignment-7-WebServerSecurityGroup-1I41FCWT3UZCN

Clear filters

Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Public IPv4 DNS	Public IPv4 ...	Elasti
GL DevOps Assignment 7 EC2	i-01a5d02f31e5aef60	Running	t2.micro	Initializing	No alarms	us-east-1a	ec2-44-207-83-32.com...	44.207.83.32	44.20

Instance: i-01a5d02f31e5aef60 (GL DevOps Assignment 7 EC2)

Details Security Networking Storage Status checks Monitoring Tags

▼ Instance summary Info

Instance ID i-01a5d02f31e5aef60 (GL DevOps Assignment 7 EC2)	Public IPv4 address 44.207.83.32 open address	Private IPv4 addresses 20.0.1.7
IPv6 address -	Instance state Running	Public IPv4 DNS ec2-44-207-83-32.compute-1.amazonaws.com open address
Hostname type IP name: ip-20-0-1-7.ec2.internal	Private IP DNS name (IPv4 only) ip-20-0-1-7.ec2.internal	Elastic IP addresses 44.207.83.32 (GL DevOps Assignment 7 EIP) [Public IP]
Answer private resource DNS name -	Instance type t2.micro	AWS Compute Optimizer finding Opt-in to AWS Compute Optimizer for recommendations. Learn more
Auto-assigned IP address -	VPC ID vpc-0bb5a96bd4f0f055a (GL DevOps Assignment 7)	Auto Scaling Group name -
IAM Role -	Subnet ID subnet-020246b312571a3e3 (GL DevOps Assignment 7 Public Subnet (AZ1))	

▼ Instance details Info

44.207.83.32

Not secure | 44.207.83.32

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Hello from Region us-east-1