

Udagram Project – Pritika Garg Arora

Creating Secure Key Pair -

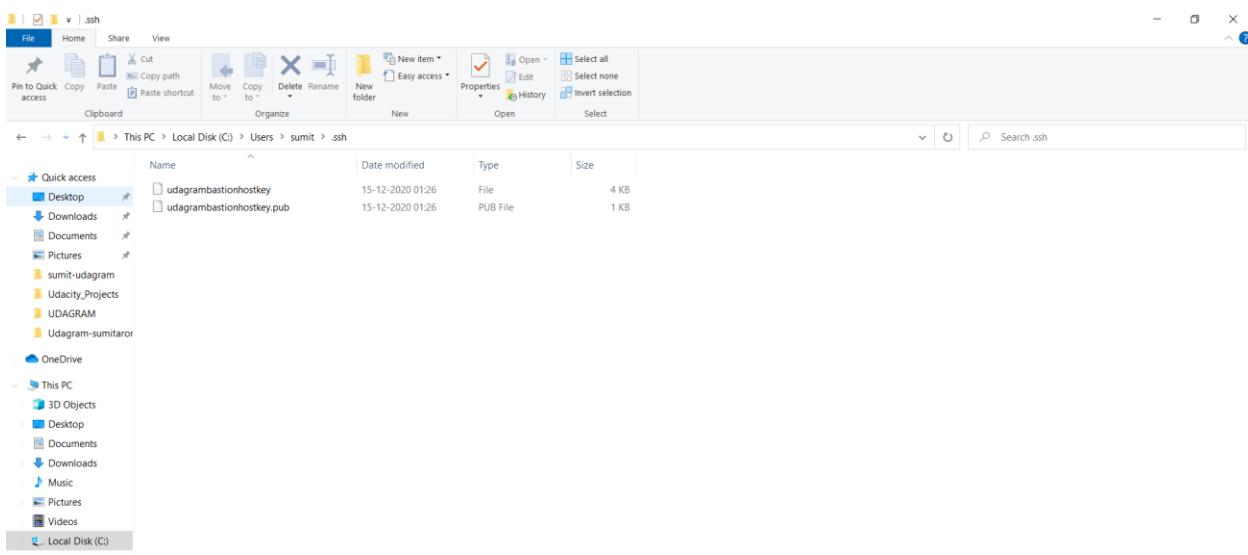
Udagrambastionhostkey

Udagrambastionhostkey.pub

The screenshot shows the Visual Studio Code interface with the following details:

- File Explorer:** Shows the project structure under "UDAGRAM PROJECT-PRITIKAGARGARORA".
- Code Editor:** Displays the content of "README.txt".
- Terminal:** Shows the command being run: `sumit@DESKTOP-H4B0AT2 MINGW64 /c/Pritika/Udacity/Udagram_Project2-PritikaGargArora`. The output shows the creation of a key pair:./utils/create-secure-key.sh

```
{  
  "KeyFingerprint": "72:24:9f:99:cc:96:a3:77:6d:1b:7d:41:cf:ac:03:d0",  
  "KeyName": "udagrambastionhostkey",  
  "KeyPairId": "key-0779bb91a7c198cb9"  
}  
{  
  "Version": 1,  
  "Tier": "Standard"  
}  
{  
  "Version": 1,  
  "Tier": "Standard"  
}
```



Key pairs (1)

Name	Fingerprint	ID
udagrambastionhostkey	72:24:9f:99:cc:96:a3:77:6d:1b:7d:41:cf...	key-0779bb91a7c198cb9

Creating IAM stack -

```

README.txt
1 ./utils/create-secure-key.sh
2 ./utils/create-stack.sh iam-stack iam/iam-stack-template.yml iam/iam-parameters.json
3 ./utils/create-stack.sh network-stack network/network-stack-template.yml network/network-parameters.json
4 ./utils/create-stack.sh bastionhost-stack bastionhost/bastionhost-stack-template.yml bastionhost/bastionhost-parameters.json
5 ./utils/create-stack.sh server-stack server/server-stack-template.yml server/server-parameters.json
6
7
8 ./utils/delete-stack.sh server-stack
9 ./utils/delete-stack.sh bastionhost-stack
10 ./utils/delete-stack.sh network-stack
11 ./utils/delete-stack.sh iam-stack
12 ./utils/delete-secure-key.sh

sumit@DESKTOP-H480AT2 MINGW64 /c/Pritika/Udacity/Udagram_Project2-PritikaGargArora
$ ./utils/create-stack.sh iam-stack iam/iam-stack-template.yml iam/iam-parameters.json
{
  "StackId": "arn:aws:cloudformation:us-west-2:372394679249:stack/iam-stack/e9996870-3e46-11eb-b6b6-06b95fe2dfef"
}

```

CloudFormation - Stack

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CloudFormation > Stacks

Stacks (1)

Stack name	Status	Created time	Description
iam-stack	CREATE_COMPLETE	2020-12-15 01:29:45 UTC+0530	Udagram Project - Pritika Garg Arora

Filter by stack name Active View nested Stack actions Create stack

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CloudFormation - Stack iam-stack

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CloudFormation > Stacks > iam-stack

Stacks (1)

Stack ID	Description
arn:aws:cloudformation:us-west-2:372394679249:stack/iam-stack/e9996870-3e46-11eb-b6b6-06b95fe2dfef	Udagram Project - Pritika Garg Arora

Filter by stack name Active View nested Stack info Events Resources Outputs Parameters Template Change sets

Overview

Stack ID	arn:aws:cloudformation:us-west-2:372394679249:stack/iam-stack/e9996870-3e46-11eb-b6b6-06b95fe2dfef	Description	Udagram Project - Pritika Garg Arora
Status	CREATE_COMPLETE	Status reason	-
Root stack	-	Parent stack	-
Created time	2020-12-15 01:29:45 UTC+0530	Deleted time	-
Updated time	-	Last drift check time	-
Drift status	NOT_CHECKED		

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CloudFormation - Stack iam-stack

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CloudFormation > Stacks > iam-stack

iam-stack

Stack info Events Resources Outputs Parameters Template Change sets

Resources (3)

Logical ID	Physical ID	Type	Status	Status reason	Module
UdagramInstanceProfile	iam-stack-UdagramInstanceProfile-1GOZZYYBOIPPS	AWS::IAM::InstanceProfile	CREATE_COMPLETE	-	-
UdagramPolicies	iam-s-Udag-1KWTZGNNMMEUJ	AWS::IAM::Policy	CREATE_COMPLETE	-	-
UdagramRoleIAM	UdagramProject-Pritika-Udagram-Role	AWS::IAM::Role	CREATE_COMPLETE	-	-

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CloudFormation - Stack iam-stack

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CloudFormation > Stacks > iam-stack

iam-stack

Stack info Events Resources Outputs Parameters Template Change sets

Outputs (2)

Key	Value	Description	Export name
InstanceProfile	iam-stack-UdagramInstanceProfile-1GOZZYYBOIPPS	Instance profile of Udagram Role	UdagramProject-Pritika-InstanceProfile
UdagramRole	UdagramProject-Pritika-Udagram-Role	Udagram Role	UdagramProject-Pritika-UdagramRole

The screenshot shows the AWS CloudFormation console with the 'CloudFormation > Stacks > iam-stack' path. The 'Parameters' tab is active, showing a single parameter named 'EnvironmentName' with the value 'UdagramProject-Pritika'. The 'Stack info' tab shows the stack was created on 2020-12-15 at 01:29:45 UTC+0530 and is in the 'CREATE_COMPLETE' state.

Creating Network Stack -

```

File Edt Selection View Go Run Terminal Help README.txt - Udagram_Project2-PritikaGargArora - Visual Studio Code
OPEN EDITORS README.txt
UDAGRAM_PROJECT2-PRITIKAGARGARORA README.txt
  bastionhost README.txt
    bastionhost-parameters.json README.txt
    bastionhost-stack-template.yaml README.txt
  docs README.txt
  iam README.txt
    iam-parameters.json README.txt
    iam-stack-template.yaml README.txt
  network README.txt
    network-parameters.json README.txt
    network-stack-template.yaml README.txt
  server README.txt
    server-parameters.json README.txt
    server-stack-template.yaml README.txt
  utils README.txt
    create-secure-key.sh README.txt
    create-stack.sh README.txt
    delete-secure-key.sh README.txt
    delete-stack.sh README.txt
    update-stack.sh README.txt
  Pritika_project2_Udagram.jpeg README.txt
  README.txt README.txt

TERMINAL
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL
sumit@DESKTOP-H480AT2 MINGW64 /c/Pritika/Udacity/Udagram_Project2-PritikaGargArora
$ ./utils/create-stack.sh network-stack network/network-stack-template.yaml network/network-parameters.json
{
  "StackId": "arn:aws:cloudformation:us-west-2:372394679249:stack/network-stack/77327e10-3e47-11eb-8ef2-024e34db2737"
}

sumit@DESKTOP-H480AT2 MINGW64 /c/Pritika/Udacity/Udagram_Project2-PritikaGargArora
$ 

```

CloudFormation - Stack

CloudFormation > Stacks

Stacks (2)

Stack name	Status	Created time	Description
network-stack	CREATE_COMPLETE	2020-12-15 01:33:43 UTC+0530	Udagram Project - Pritika Garg Arora Network Stack is responsible of deploying ...
iam-stack	CREATE_COMPLETE	2020-12-15 01:29:45 UTC+0530	Udagram Project - Pritika Garg Arora

https://us-west-2.console.aws.amazon.com/cloudformation/home?region=us-west-2#/stacks... © 2008 - 2020, Amazon Internet Services Private Ltd. or its affiliates. All rights reserved. Privacy Policy Terms of Use

CloudFormation - Stack network

CloudFormation > Stacks > network-stack

network-stack

Stack ID	ARN	Description
arn:aws:cloudformation:us-west-2:372394679249:stack/network-stack/77327e10-3e47-11eb-8ef2-024e34db2737	arn:aws:cloudformation:us-west-2:372394679249:stack/network-stack/77327e10-3e47-11eb-8ef2-024e34db2737	Udagram Project - Pritika Garg Arora Network Stack is responsible of deploying a VPC, with a pair of public and private subnets spread across two AZs. It also deploys an Internet Gateway, with a default route on the public subnets. It deploys a pair of NAT Gateways (one in each AZ), and default routes for them in the private subnets.

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CloudFormation - Stack network

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CloudFormation > Stacks > network-stack

Stacks (3)

Filter by stack name Active View nested

bastionhost-stack 2020-12-15 01:39:06 UTC+0530 CREATE_IN_PROGRESS

network-stack 2020-12-15 01:33:45 UTC+0530 CREATE_COMPLETE

iam-stack 2020-12-15 01:29:45 UTC+0530 CREATE_COMPLETE

network-stack

network-stack

Resources (21)

Logical ID	Physical ID	Type	Status	Status reason	Module
DefaultPrivateRoute1	netwo-Defau-WZHMS8LS8OEU	AWS::EC2::Route	CREATE_COMPLETE	-	-
DefaultPrivateRoute2	netwo-Defau-JUS0GKXD1SQT	AWS::EC2::Route	CREATE_COMPLETE	-	-
DefaultPublicRoute	netwo-Defau-CY0220CLET2V	AWS::EC2::Route	CREATE_COMPLETE	-	-
InternetGateway	igw-09fd900a6ed2454e9	AWS::EC2::InternetGateway	CREATE_COMPLETE	-	-
InternetGatewayAttach	netwo-Inte-1VJCHM4CT71S17	AWS::EC2::VPCAttachment	CREATE_COMPLETE	-	-

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CloudFormation - Stack network

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CloudFormation > Stacks > network-stack

Stacks (3)

Filter by stack name Active View nested

bastionhost-stack 2020-12-15 01:39:06 UTC+0530 CREATE_IN_PROGRESS

network-stack 2020-12-15 01:33:45 UTC+0530 CREATE_COMPLETE

iam-stack 2020-12-15 01:29:45 UTC+0530 CREATE_COMPLETE

Resources (21)

Logical ID	Physical ID	Type	Status	Status reason	Module
NatGateway1	nat-0e488d1c22a96a6aa	AWS::EC2::NatGateway	CREATE_COMPLETE	-	-
NatGateway1EIP	34.217.190.136	AWS::EC2::EIP	CREATE_COMPLETE	-	-
NatGateway2	nat-07a36897bd58ae5dc	AWS::EC2::NatGateway	CREATE_COMPLETE	-	-
NatGateway2EIP	44.238.184.75	AWS::EC2::EIP	CREATE_COMPLETE	-	-
PrivateRouteTable1	rtb-0b680c88a66034437	AWS::EC2::RouteTable	CREATE_COMPLETE	-	-
PrivateRouteTable2	rtb-0d3f379a4fbcc1cf6	AWS::EC2::RouteTable	CREATE_COMPLETE	-	-
PrivateSubnet1	subnet-09-1b8d02f0-5240c	AWS::EC2::Subnet	CREATE_COMPLETE	-	-

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CloudFormation - Stack network

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CloudFormation > Stacks > network-stack

Stacks (3)

Filter by stack name Active View nested

- bastionhost-stack 2020-12-15 01:39:06 UTC+0530 CREATE_COMPLETE
- network-stack 2020-12-15 01:33:43 UTC+0530 CREATE_COMPLETE
- iam-stack 2020-12-15 01:29:45 UTC+0530 CREATE_COMPLETE

Resources (21)

Logical ID	Physical ID	Type	Status	Status reason	Module
PrivateSubnet1RouteTableAssociation	rtbassoc-05525d14ace046a84	AWS::EC2::SubnetRouteTableAssociation	CREATE_COMPLETE	-	-
PrivateSubnet2	subnet-0d756353a2d2cebc7	AWS::EC2::Subnet	CREATE_COMPLETE	-	-
PrivateSubnet2RouteTableAssociation	rtbassoc-0579dc3c0249541f6	AWS::EC2::SubnetRouteTableAssociation	CREATE_COMPLETE	-	-
PublicRouteTable	rtb-0af3de7ee5b2d9005	AWS::EC2::RouteTable	CREATE_COMPLETE	-	-
PublicSubnet1	subnet-0067f0d19f8827c0b	AWS::EC2::Subnet	CREATE_COMPLETE	-	-
PublicSubnet1RouteTableAssociation	rtbassoc-057c68512f65fa320	AWS::EC2::SubnetRouteTableAssociation	CREATE_COMPLETE	-	-
PublicSubnet2	subnet-081c0dd094c75060a	AWS::EC2::Subnet	CREATE_COMPLETE	-	-
PublicSubnet2RouteTableAssociation	rtbassoc-069b42241e53b9479	AWS::EC2::SubnetRouteTableAssociation	CREATE_COMPLETE	-	-
VPC	vpc-0cc72f2633fea4fe	AWS::EC2::VPC	CREATE_COMPLETE	-	-

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CloudFormation - Stack network

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CloudFormation > Stacks > network-stack

Stacks (3)

Filter by stack name Active View nested

- bastionhost-stack 2020-12-15 01:39:06 UTC+0530 CREATE_COMPLETE
- network-stack 2020-12-15 01:33:43 UTC+0530 CREATE_COMPLETE
- iam-stack 2020-12-15 01:29:45 UTC+0530 CREATE_COMPLETE

Resources (21)

Logical ID	Physical ID	Type	Status	Status reason	Module
PublicRouteTable	rtb-0af3de7ee5b2d9005	AWS::EC2::RouteTable	CREATE_COMPLETE	-	-
PublicSubnet1	subnet-0067f0d19f8827c0b	AWS::EC2::Subnet	CREATE_COMPLETE	-	-
PublicSubnet1RouteTableAssociation	rtbassoc-057c68512f65fa320	AWS::EC2::SubnetRouteTableAssociation	CREATE_COMPLETE	-	-
PublicSubnet2	subnet-081c0dd094c75060a	AWS::EC2::Subnet	CREATE_COMPLETE	-	-
PublicSubnet2RouteTableAssociation	rtbassoc-069b42241e53b9479	AWS::EC2::SubnetRouteTableAssociation	CREATE_COMPLETE	-	-
VPC	vpc-0cc72f2633fea4fe	AWS::EC2::VPC	CREATE_COMPLETE	-	-

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CloudFormation - Stack network

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CloudFormation > Stacks > network-stack

network-stack

Stacks (3) Delete Update Stack actions Create stack

Filter by stack name Active View nested

bastionhost-stack 2020-12-15 01:39:06 UTC+0530 CREATE_COMPLETE

network-stack 2020-12-15 01:33:45 UTC+0530 CREATE_COMPLETE

iam-stack 2020-12-15 01:29:45 UTC+0530 CREATE_COMPLETE

Outputs (14)

Key	Value	Description	Export name
PrivateSubnet1	subnet-09ab8d07fa0c5240c	A reference to the private subnet in the 1st Availability Zone	UdagramProject-Pritika-PRIVATE1-SN
PrivateSubnet1CIDR	10.0.1.0/24	A reference to the CIDR block private subnet in the 1st AZ	UdagramProject-Pritika-PRIVATE1-CIDR-SN
PrivateSubnet2	subnet-0d756353a2d2cebc7	A reference to the private subnet in the 2nd Availability Zone	UdagramProject-Pritika-PRIVATE2-SN
PrivateSubnet2CIDR	10.0.3.0/24	A reference to the CIDR block private subnet in the 2nd AZ	UdagramProject-Pritika-PRIVATE2-CIDR-SN
PrivateSubnets	subnet-09ab8d07fa0c5240c,subnet-0d756353a2d2cebc7	A list of the private subnets	UdagramProject-Pritika-PRIVATE-NETS
PublicSubnet1	subnet-0067f0d19f8827c0b	A reference to the public subnet in the 1st Availability Zone	UdagramProject-Pritika-PUBLIC1-SN
PublicSubnet1CIDR	10.0.0.0/24	A reference to the CIDR block public subnet	UdagramProject-Pritika-PUBLIC1-CIDR-SN

https://us-west-2.console.aws.amazon.com/cloudformation/home?region=us-west-2#

CloudFormation - Stack network

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CloudFormation > Stacks > network-stack

network-stack

Stacks (3) Delete Update Stack actions Create stack

Filter by stack name Active View nested

bastionhost-stack 2020-12-15 01:39:06 UTC+0530 CREATE_COMPLETE

network-stack 2020-12-15 01:33:45 UTC+0530 CREATE_COMPLETE

iam-stack 2020-12-15 01:29:45 UTC+0530 CREATE_COMPLETE

Outputs (14)

Key	Value	Description	Export name
PublicSubnet1	subnet-0067f0d19f8827c0b	A reference to the public subnet in the 1st Availability Zone	UdagramProject-Pritika-PUBLIC1-SN
PublicSubnet1CIDR	10.0.0.0/24	A reference to the CIDR block public subnet in the 1st AZ	UdagramProject-Pritika-PUBLIC1-CIDR-SN
PublicSubnet2	subnet-081c0dd094c75060a	A reference to the public subnet in the 2nd Availability Zone	UdagramProject-Pritika-PUBLIC2-SN
PublicSubnet2CIDR	10.0.2.0/24	A reference to the CIDR block public subnet in the 2nd AZ	UdagramProject-Pritika-PUBLIC2-CIDR-SN
PublicSubnets	subnet-0067f0d19f8827c0b,subnet-081c0dd094c75060a	A list of the public subnets	UdagramProject-Pritika-PUBLIC-NETS
VPC	vpc-0cc72f263fea4f2e	A reference to the created VPC	UdagramProject-Pritika-VPCID
VPCPrivateRouteTable1	rtb-0b680c88a66054437	Private Routing AZ1	UdagramProject-Pritika-PRIVATE1-RT
VPCPrivateRouteTable2	rtb-0d3f379a4fbfc1cf6	Private Routing AZ2	UdagramProject-Pritika-PRIVATE2-RT
VPCPublicRouteTable	rtb-0af3de7ee5b2d9005	Public Routing	UdagramProject-Pritika-PUBLIC-RT

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The screenshot shows the AWS CloudFormation console with the URL us-west-2.console.aws.amazon.com/cloudformation/home?region=us-west-2#/stacks/parameters?filteringText=&filteringStatus=active&viewNested=true&hideStacks=false&stackId=arn%3Aaws%3Acloudf.... The page displays the 'network-stack' with three parameters: EnvironmentName (Value: UdagramProject-Pritika), SubnetCIDRBlocks (Value: 10.0.0.0/24,10.0.1.0/24,10.0.2.0/24,10.0.3.0/24), and VpcCIDR (Value: 10.0.0.0/16). The 'Parameters' tab is selected.

CloudFormation > Stacks > network-stack

network-stack

Stack info Events Resources Outputs Parameters Template Change sets

Parameters (3)

Key	Value	Resolved value
EnvironmentName	UdagramProject-Pritika	-
SubnetCIDRBlocks	10.0.0.0/24,10.0.1.0/24,10.0.2.0/24,10.0.3.0/24	-
VpcCIDR	10.0.0.0/16	-

Create a Bastion Host -

The screenshot shows the Visual Studio Code interface with the following details:

- File Explorer:** Shows a project structure for "UDAGRAM_PROJECT2..." containing subfolders like "bastionhost", "iam", "network", and "server", each with their respective JSON and YAML files.
- Editor:** The "README.txt" file is open, displaying a series of shell commands used for stack creation and deletion.
- Terminal:** A terminal window titled "1: bash" is open, showing a command being run to create a stack named "bastionhost-stack".

```
1 ./utils/create-secure-key.sh
2 ./utils/create-stack.sh iam-stack iam-iam-stack-template.yaml iam/iam-parameters.json
3 ./utils/create-stack.sh network-stack network/network-stack-template.yaml network/network-parameters.json
4 ./utils/create-stack.sh bastionhost-stack bastionhost/bastionhost-stack-template.yaml bastionhost/bastionhost-parameters.json
5 ./utils/create-stack.sh server-stack server/server-stack-template.yaml server/server-parameters.json
6
7
8 ./utils/delete-stack.sh server-stack
9 ./utils/delete-stack.sh bastionhost-stack
10 ./utils/delete-stack.sh network-stack
11 ./utils/delete-stack.sh iam-stack
12 ./utils/delete-secure-key.sh
```

```
SUMIT@DESKTOP-H488AT2 MINGW64 /c/Pritika/Udacity/Udagram_Project2-PritikaGargArora
$ ./utils/create-stack.sh bastionhost-stack bastionhost/bastionhost-stack-template.yaml bastionhost/bastionhost-parameters.json
{
  "stackId": "arn:aws:cloudformation:us-west-2:372394679249:stack/bastionhost-stack/37c50bc0-3e48-11eb-8aca-06e79ce32c50"
}
```

```
SUMIT@DESKTOP-H488AT2 MINGW64 /c/Pritika/Udacity/Udagram_Project2-PritikaGargArora
$
```

CloudFormation - Stack

CloudFormation > Stacks

Stacks (3)

Stack name	Status	Created time	Description
bastionhost-stack	CREATE_COMPLETE	2020-12-15 01:39:06 UTC+0530	Udagram Project - Pritika Garg Arora This module stack deploys a Bastion Host(...
network-stack	CREATE_COMPLETE	2020-12-15 01:33:43 UTC+0530	Udagram Project - Pritika Garg Arora Network Stack is responsible of deploying ...
iam-stack	CREATE_COMPLETE	2020-12-15 01:29:45 UTC+0530	Udagram Project - Pritika Garg Arora

https://us-west-2.console.aws.amazon.com/console/home/?region=us-west-2

CloudFormation - Stack bastionhost

CloudFormation > Stacks > bastionhost-stack

Stacks (3)

Stack name	Status	Created time	Description
bastionhost-stack	CREATE_COMPLETE	2020-12-15 01:39:06 UTC+0530	Udagram Project - Pritika Garg Arora This module stack deploys a Bastion Host(...
network-stack	CREATE_COMPLETE	2020-12-15 01:33:43 UTC+0530	Udagram Project - Pritika Garg Arora Network Stack is responsible of deploying ...
iam-stack	CREATE_COMPLETE	2020-12-15 01:29:45 UTC+0530	Udagram Project - Pritika Garg Arora

bastionhost-stack

Stack info Events Resources Outputs Parameters Template Change sets

Overview

Stack ID: arn:aws:cloudformation:us-west-2:372394679249:stack/bastionhost-stack/37c50bc0-3e48-11eb-8aca-06e79ce32c50

Description: Udagram Project - Pritika Garg Arora This module stack deploys a Bastion Host(Jumpbox) instance, with a pair of public and private subnets spread across two AZs. It deploys an Internet Gateway, with a default route on the public subnets. It deploys a pair of NAT Gateways (one in each AZ) and default routes for them in the private subnets.

Status: CREATE_COMPLETE

Root stack: -

Created time: 2020-12-15 01:39:06 UTC+0530

Updated time: -

Status reason: -

Parent stack: -

Deleted time: -

CloudFormation - Stack bastionhost

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CloudFormation > Stacks > bastionhost-stack

bastionhost-stack

Stack info Events Resources Outputs Parameters Template Change sets

Resources (4)

Logical ID	Physical ID	Type	Status	Status reason	Module
BastionHostAutoSG	bastionhost-stack-BastionHostAutoSG-FJ8WETOZYUH	AWS::AutoScaling::AutoScalingGroup	CREATE_COMPLETE	-	-
BastionHostLaunchConfig	bastionhost-stack-BastionHostLaunchConfig-U2UF3O73MG52	AWS::AutoScaling::LaunchConfiguration	CREATE_COMPLETE	-	-
BastionHostSecGroup	sg-0c0c35acdebc49a47	AWS::EC2::SecurityGroup	CREATE_COMPLETE	-	-
ElasticIpBastionHost	54.71.2.235	AWS::EC2::EIP	CREATE_COMPLETE	-	-

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CloudFormation - Stack bastionhost

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CloudFormation > Stacks > bastionhost-stack

bastionhost-stack

Stack info Events Resources Outputs Parameters Template Change sets

Outputs (2)

Key	Value	Description	Export name
BastionHostPublicIPAddress	54.71.2.235	Bastion host public IP	UdagramProject-Pritika-BASTIONHOST-PUBLIC-IP
BastionHostSecurityGroupSSH	sg-0c0c35acdebc49a47	Will use to allow SSH connections from the Bastion host	UdagramProject-Pritika-SSHSecurityGroup

The screenshot shows the AWS CloudFormation console with the URL us-west-2.console.aws.amazon.com/cloudformation/home?region=us-west-2#/stacks/parameters?filteringText=&filteringStatus=active&viewNested=true&hideStacks=false&stackId=arn%3Aaws%3Acloudf.... The page displays the 'bastionhost-stack' with five parameters: EnvironmentName (UdagramProject-Pritika), InstanceAMI (ami-0ac73f33a1888c64a), InstanceType (t2.micro), KeyName (udagrambastionhostkey), and SSHLocation (0.0.0.0/0). The 'Parameters' tab is selected.

Key	Value	Resolved value
EnvironmentName	UdagramProject-Pritika	-
InstanceAMI	ami-0ac73f33a1888c64a	-
InstanceType	t2.micro	-
KeyName	udagrambastionhostkey	-
SSHLocation	0.0.0.0/0	-

Create a server stack -

The screenshot shows the Visual Studio Code interface with the following details:

- File Explorer:** Shows the project structure under "UDAGRAM_PROJECT2-PRITIKAGARGARORA".
- README.txt:** The file contains the following content:

```
1 ./utils/create-secure-key.sh
2 ./utils/create-stack.sh iam-stack iam-iam-stack-template.yml iam/iam-parameters.json
3 ./utils/create-stack.sh network-stack network/network-stack-template.yml network/network-parameters.json
4 ./utils/create-stack.sh bastionhost-stack bastionhost/bastionhost-stack-template.yml bastionhost/bastionhost-parameters.json
5 ./utils/create-stack.sh server-stack server/server-stack-template.yml server/server-parameters.json
6
7
8 ./utils/delete-stack.sh server-stack
9 ./utils/delete-stack.sh bastionhost-stack
10 ./utils/delete-stack.sh network-stack
11 ./utils/delete-stack.sh iam-stack
12 ./utils/delete-secure-key.sh
```

- Terminal:** A bash shell is open with the following history:

```
sumit@DESKTOP-H4880AT2 MINGW64 /c/Pritika/Udacity/Udagram_Project2-PritikaGargArora
$ ./utils/create-stack.sh server-stack server/server-stack-template.yml server/server-parameters.json
{
  "stackId": "arn:aws:cloudformation:us-west-2:372394679249:stack/server-stack/edb71c20-3e48-11eb-94b5-0a8bbb84e71d"
}

sumit@DESKTOP-H4880AT2 MINGW64 /c/Pritika/Udacity/Udagram_Project2-PritikaGargArora
$
```

CloudFormation - Stack

CloudFormation > Stacks

Stacks (4)

Stack name	Status	Created time	Description
server-stack	CREATE_COMPLETE	2020-12-15 01:44:11 UTC+0530	Udagram Project - Pritika Garg Arora This module stack is responsible of deployi...
bastionhost-stack	CREATE_COMPLETE	2020-12-15 01:39:06 UTC+0530	Udagram Project - Pritika Garg Arora This module stack deploys a Bastion Host[...]
network-stack	CREATE_COMPLETE	2020-12-15 01:33:43 UTC+0530	Udagram Project - Pritika Garg Arora Network Stack is responsible of deploying ...
iam-stack	CREATE_COMPLETE	2020-12-15 01:29:45 UTC+0530	Udagram Project - Pritika Garg Arora

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CloudFormation - Stack server-stack

CloudFormation > Stacks > server-stack

server-stack

Stack info Events Resources Outputs Parameters Template Change sets

Overview

Stack ID arn:aws:cloudformation:us-west-2:372394679249:stack/server-stack/edb71c20-3e48-11eb-94b5-0a8bb84e71d	Description Udagram Project - Pritika Garg Arora This module stack is responsible of deploying servers.
Status CREATE_COMPLETE	Status reason -
Root stack -	Parent stack -
Created time 2020-12-15 01:44:11 UTC+0530	Deleted time -
Updated time -	Last drift check time -
Drift status NOT_CHECKED	

CloudFormation - Stack server-s... +

us-west-2.console.aws.amazon.com/cloudformation/home?region=us-west-2#/stacks/resources?filteringText=&filteringStatus=active&viewNested=true&hideStacks=false&stackId=arn%3Aaws%3Acloudfo...

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CloudFormation > Stacks > server-stack

server-stack

Stacks (4) C

Filter by stack name

Active View nested

1 < >

server-stack
2020-12-15 01:44:11 UTC+0530 CREATE_COMPLETE

bastionhost-stack
2020-12-15 01:39:06 UTC+0530 CREATE_COMPLETE

network-stack
2020-12-15 01:33:43 UTC+0530 CREATE_COMPLETE

iam-stack
2020-12-15 01:29:45 UTC+0530 CREATE_COMPLETE

Resources (12)

Search resources

Logical ID	Physical ID	Type	Status	Status reason	Module
AppScaleDownPolicy	arn:aws:autoscaling:us-west-2:372394679249:scaling Policy:53557d5a-db0b-461a-89fa-015012da7c83:autoScalingGroupNames/server-stack-WebHostsAutoScaling-1RECHM7UP99MT:policyName/server-stack-AppScaleDownPolicy-187110XYJZYSI	AWS::AutoScaling ::ScalingPolicy	CREATE_COMPLETE	-	-
	arn:aws:autoscaling:us-west-2:372394679249:scaling Policy:53557d5a-db0b-461a-89fa-015012da7c83:autoScalingGroupNames/server-stack-WebHostsAutoScaling-1RECHM7UP99MT:policyName/server-stack-AppScaleDownPolicy-187110XYJZYSI	AWS::AutoScaling ::ScalingPolicy	CREATE_COMPLETE	-	-

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CloudFormation - Stack server-s... +

us-west-2.console.aws.amazon.com/cloudformation/home?region=us-west-2#/stacks/resources?filteringText=&filteringStatus=active&viewNested=true&hideStacks=false&stackId=arn%3Aaws%3Acloudfo...

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CloudFormation > Stacks > server-stack

server-stack

Stacks (4) C

Filter by stack name

Active View nested

1 < >

server-stack
2020-12-15 01:44:11 UTC+0530 CREATE_COMPLETE

bastionhost-stack
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network-stack
2020-12-15 01:33:43 UTC+0530 CREATE_COMPLETE

iam-stack
2020-12-15 01:29:45 UTC+0530 CREATE_COMPLETE

Resources (12)

Search resources

Logical ID	Physical ID	Type	Status	Status reason	Module
AppScaleUpPolicy	arn:aws:autoscaling:us-west-2:372394679249:scaling Policy:ae6787d-5896-493c-9bf6-ad26f9528f27:autoScalingGroupNames/server-stack-WebHostsAutoScaling-1RECHM7UP99MT:policyName/server-stack-AppScaleUpPolicy-1MJE2B9OPC4CF	AWS::AutoScaling ::ScalingPolicy	CREATE_COMPLETE	-	-
CPUAlarmHigh	CpuHigh C	AWS::CloudWatch ::Alarm	CREATE_COMPLETE	-	-
CPUAlarmLow	server-stack-CPUAlarmLow-10USSKTYGX5U C	AWS::CloudWatch ::Alarm	CREATE_COMPLETE	-	-
Listener	arn:aws:elasticloadbalancing:us-west-2:372394679249:listener/app/server-WebApp-1L...	AWS::ElasticLoad Balancing::Listener	CREATE_COMPLETE	-	-

https://us-west-2.console.aws.amazon.com/cloudformation/home?region=us-west-2#

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CloudFormation - Stack server-s... +

us-west-2.console.aws.amazon.com/cloudformation/home?region=us-west-2#/stacks/resources?filteringText=&filteringStatus=active&viewNested=true&hideStacks=false&stackId=arn%3Aaws%3Acloudfo...

Services ▾ Search for services, features, marketplace products, and docs [Alt+S] pritikagargarora Oregon Support

CloudFormation > Stacks > server-stack

Stacks (4)

Filter by stack name Active View nested < 1 >

- server-stack (2020-12-15 01:44:11 UTC+0530) CREATE_COMPLETE
- bastionhost-stack (2020-12-15 01:39:06 UTC+0530) CREATE_COMPLETE
- network-stack (2020-12-15 01:33:43 UTC+0530) CREATE_COMPLETE
- iam-stack (2020-12-15 01:29:45 UTC+0530) CREATE_COMPLETE

Resources (12)

Search resources

Logical ID	Physical ID	Type	Status	Status reason	Module
Listener	arn:aws:elasticloadbalancing:us-west-2:372394679249:listener/r/app/serve-WebAp-OL15WV6RLTAG/3aef6221aa3d2dcf/2c4a2e8dbca14f11	AWS::ElasticLoadBalancingV2::Listener	CREATE_COMPLETE	-	
LoadBalancerListenerRule	arn:aws:elasticloadbalancing:us-west-2:372394679249:listener-rule/app/serve-WebAp-OL15WV6RLTAG/3aef6221aa3d2dcf/2c4a2e8dbca14f11/c7fdcd921b67e49	AWS::ElasticLoadBalancingV2::ListenerRule	CREATE_COMPLETE	-	
LoadBalancerSG	sg-0db9a79bc8501aeef	AWS::EC2::SecurityGroup	CREATE_COMPLETE	-	
	arn:aws:elasticloadbalancing:us-west-2:372394679249:loadbalancer/app/serve-WebAp-OL15WV6RLTAG/3aef6221aa3d2dcf	AWS::ElasticLoadBalancingV2::LoadBalancer	CREATE_COMPLETE	-	
	sg-099a60662105448fe	AWS::EC2::SecurityGroup	CREATE_COMPLETE	-	
	arn:aws:elasticloadbalancing:us-west-2:372394679249:targetgroup/serve-WebAp-18R0IMSEFQV8S/d5a3e1067629ce28	AWS::ElasticLoadBalancingV2::TargetGroup	CREATE_COMPLETE	-	
WebHostsAutoSG	server-stack-WebHostsAutoSG-1RECHM7UP99MT	AWS::AutoScaling::AutoScalingGroup	CREATE_COMPLETE	-	
WebHostsLaunchConfig9	server-stack-WebHostLaunchConfig-TKvU1LndcPm	AWS::AutoScaling::LaunchConfiguration	CREATE_COMPLETE	-	

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CloudFormation - Stack server-s... +

us-west-2.console.aws.amazon.com/cloudformation/home?region=us-west-2#/stacks/resources?filteringText=&filteringStatus=active&viewNested=true&hideStacks=false&stackId=arn%3Aaws%3Acloudfo...

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CloudFormation > Stacks > server-stack

Stacks (4)

Filter by stack name Active View nested < 1 >

- server-stack (2020-12-15 01:44:11 UTC+0530) CREATE_COMPLETE
- bastionhost-stack (2020-12-15 01:39:06 UTC+0530) CREATE_COMPLETE
- network-stack (2020-12-15 01:33:43 UTC+0530) CREATE_COMPLETE
- iam-stack (2020-12-15 01:29:45 UTC+0530) CREATE_COMPLETE

Resources (12)

Search resources

Logical ID	Physical ID	Type	Status	Status reason	Module
WebAppLoadBalancer	arn:aws:elasticloadbalancing:us-west-2:372394679249:loadbalancer/app/serve-WebAp-OL15WV6RLTAG/3aef6221aa3d2dcf	AWS::ElasticLoadBalancingV2::LoadBalancer	CREATE_COMPLETE	-	
WebAppSG	sg-099a60662105448fe	AWS::EC2::SecurityGroup	CREATE_COMPLETE	-	
WebAppTargetGroup	arn:aws:elasticloadbalancing:us-west-2:372394679249:targetgroup/serve-WebAp-18R0IMSEFQV8S/d5a3e1067629ce28	AWS::ElasticLoadBalancingV2::TargetGroup	CREATE_COMPLETE	-	
WebHostsAutoSG	server-stack-WebHostsAutoSG-1RECHM7UP99MT	AWS::AutoScaling::AutoScalingGroup	CREATE_COMPLETE	-	
WebHostsLaunchConfig9	server-stack-WebHostLaunchConfig-TKvU1LndcPm	AWS::AutoScaling::LaunchConfiguration	CREATE_COMPLETE	-	

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Screenshot of the AWS CloudFormation console showing the Outputs tab for the 'server-stack'.

Outputs (1)

Key	Value	Description	Export name
WebsiteURL	http://serve-WebAp-OL15WV6RLTAG-1836605732.us-west-2.elb.amazonaws.com	DNS Name of the web application through the Load Balancer	UdagramProject-Pritika-DNS-NAME

Screenshot of the AWS CloudFormation console showing the Parameters tab for the 'server-stack'.

Parameters (5)

Key	Value	Resolved value
EnvironmentName	UdagramProject-Pritika	-
InstanceAMI	ami-0ac73f33a1888c64a	-
InstanceType	t2.medium	-
S3CodeArchive	udacity.zip	-
S3CodeBucketName	udacity-demo-1	-

Access the website using the Load Balances link -

<http://serve-WebAp-OL15WV6RLTAG-1836605732.us-west-2.elb.amazonaws.com>

