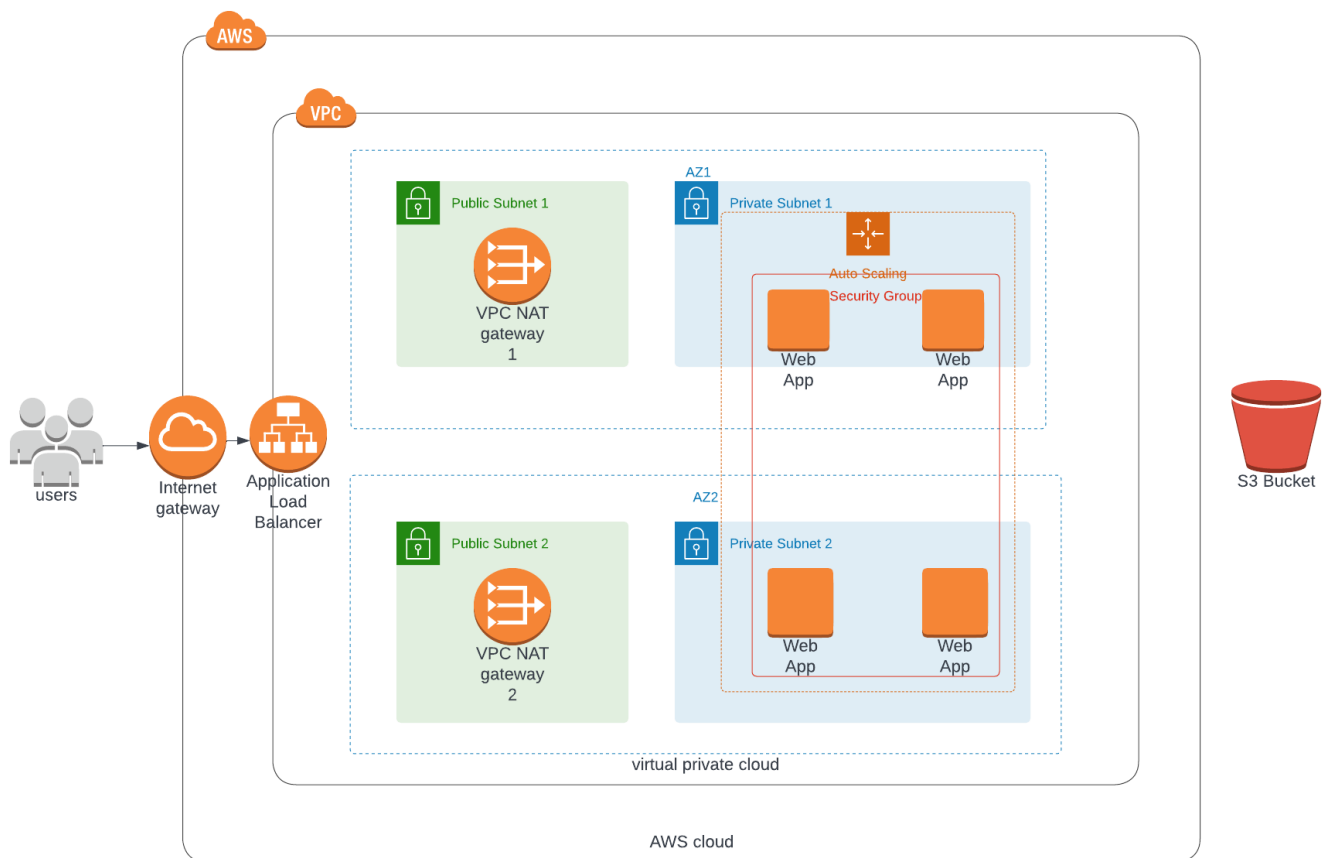


Deploy a high-availability web app using CloudFormation

Diagram

Diagram Lucid URL:

https://lucid.app/lucidchart/679b3f37-22f7-4c55-b088-ef8a1d6849c3/edit?viewport_loc=35%2C21%2C2233%2C1027%2C0_0&invitationId=inv_a0c05b90-0066-4aeb-8f6f-b5ee315c2bb4



Parameters

networkproject2mg



- Delete
- Update
- Stack actions ▾
- Create stack ▾

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

Parameters (6)



Q

Search

< 1 >

Key ▲	Value ▾	Resolved value ▾
EnvironmentName	UdacityProject2	-
PrivateSubnet1CIDR	10.0.2.0/24	-
PrivateSubnet2CIDR	10.0.3.0/24	-
PublicSubnet1CIDR	10.0.0.0/24	-
PublicSubnet2CIDR	10.0.1.0/24	-
VpcCIDR	10.0.0.0/16	-

serverproject2mg



- Delete
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- Stack actions ▾
- Create stack ▾

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

Parameters (5)



Q

Search

< 1 >

Key ▲	Value ▾	Resolved value ▾
AMIversion	ami-04bad3c587fe60d89	-
EnvironmentName	UdacityProject2	-
Insersion	t3.small	-
scaleMax	8	-
scaleMin	4	-

Resources

1. Network

networkproject2mg

⚙️

✕

Delete

Update

Stack actions ▼

Create stack ▼

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Resources (21)

🔄

🔍 Search resources

< 1 > ⚙️

Logical ID ▲	Physical ID ▼	Type ▼	Status ▼	Module ▼
DefaultPrivateRoute 1	netwo-Defau-EGIS3CE6PAKK	AWS::EC2::Route	✔️ CREATE_COMPLETE	-
DefaultPrivateRoute 2	netwo-Defau-4ZDPFWDO5W9V	AWS::EC2::Route	✔️ CREATE_COMPLETE	-
DefaultPublicRoute	netwo-Defau-1XQAYIBZCCGJ7	AWS::EC2::Route	✔️ CREATE_COMPLETE	-
InternetGateway	igw-043d2eec1352a5cc9 🔗	AWS::EC2::InternetGateway	✔️ CREATE_COMPLETE	-
InternetGatewayAttachment	netwo-Inter-YXY7DEE2LBC	AWS::EC2::VPCGatewayAttachment	✔️ CREATE_COMPLETE	-
	nat-	AWS::EC2::NatGateway	✔️ CREATE_COMPLETE	-

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Resources (21)						
<input type="text" value="Search resources"/>						< 1 >
Logical ID	Physical ID	Type	Status	Module		
PrivateSubnet2	subnet-069f46898fb67f8d4 🔗	AWS::EC2::Subnet	✔️ CREATE_COMPLETE	-		
PrivateSubnet2RouteTableAssociation	rtbassoc-07f721a5434fdf447	AWS::EC2::SubnetRouteTableAssociation	✔️ CREATE_COMPLETE	-		
PublicRouteTable	rtb-074334d0096e580e1	AWS::EC2::RouteTable	✔️ CREATE_COMPLETE	-		
PublicSubnet1	subnet-0d46a9eda2f0345d9 🔗	AWS::EC2::Subnet	✔️ CREATE_COMPLETE	-		
PublicSubnet1RouteTableAssociation	rtbassoc-08e427c522c62ca3e	AWS::EC2::SubnetRouteTableAssociation	✔️ CREATE_COMPLETE	-		
PublicSubnet2	subnet-09fb91bdc82c949b4 🔗	AWS::EC2::Subnet	✔️ CREATE_COMPLETE	-		
PublicSubnet2RouteTableAssociation	rtbassoc-0afa0cd0716269764	AWS::EC2::SubnetRouteTableAssociation	✔️ CREATE_COMPLETE	-		
VPC	vpc-0eb45e988ad435e0e 🔗	AWS::EC2::VPC	✔️ CREATE_COMPLETE	-		

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Resources (21)						
<input type="text" value="Search resources"/>						< 1 >
Logical ID	Physical ID	Type	Status	Module		
NatGateway1	nat-0c25cb9b437a698ff	AWS::EC2::NatGateway	✔️ CREATE_COMPLETE	-		
NatGateway1EIP	52.11.126.68 🔗	AWS::EC2::EIP	✔️ CREATE_COMPLETE	-		
NatGateway2	nat-01f384e2f8e52ed47	AWS::EC2::NatGateway	✔️ CREATE_COMPLETE	-		
NatGateway2EIP	52.12.41.208 🔗	AWS::EC2::EIP	✔️ CREATE_COMPLETE	-		
PrivateRouteTable1	rtb-0fd407ed1a5a7664b	AWS::EC2::RouteTable	✔️ CREATE_COMPLETE	-		
PrivateRouteTable2	rtb-0120e66838a068022	AWS::EC2::RouteTable	✔️ CREATE_COMPLETE	-		
PrivateSubnet1	subnet-02fcb16036bbf40c7 🔗	AWS::EC2::Subnet	✔️ CREATE_COMPLETE	-		
PrivateSubnet1RouteTableAssociation	rtbassoc-05bbb2848a74b730	AWS::EC2::SubnetRouteTableAssociation	✔️ CREATE_COMPLETE	-		

2. Servers

Resources (9)

Search resources

<

1

>

Logical ID	Physical ID	Type	Status	Module
ALBListenerRule	arn:aws:elasticloadbalancing:us-west-2:023857535901:listener-rule/app/serve-WebAp-7ORRH6HWOZZ/e7481f427047fd3f/2ffa3884cf3e4db5/1ed2a1d783c8b004	AWS::ElasticLoadBalancingV2::ListenerRule	✔ CREATE_COMPLETE	-
LBSecGroup	sg-09521bec486d72623	AWS::EC2::SecurityGroup	✔ CREATE_COMPLETE	-
Listener	arn:aws:elasticloadbalancing:us-west-2:023857535901:listener/app/serve-WebAp-7ORRH6HWOZZ/e7481f427047fd3f/2ffa3884cf3e4db5	AWS::ElasticLoadBalancingV2::Listener	✔ CREATE_COMPLETE	-
serverproject2mg-				
ProfileWithRolesForOurApp	serverproject2mg-ProfileWithRolesForOurApp-o2FLKmuLpZF	AWS::IAM::InstanceProfile	✔ CREATE_COMPLETE	-
WebAppGroup	serverproject2mg-WebAppGroup-15DNY620Y2WMH	AWS::AutoScaling::AutoScalingGroup	✔ CREATE_COMPLETE	-
WebAppLaunchConfig	serverproject2mg-WebAppLaunchConfig-cHBhlhPYlPvq	AWS::AutoScaling::LaunchConfiguration	✔ CREATE_COMPLETE	-
WebAppLB	arn:aws:elasticloadbalancing:us-west-2:023857535901:loadbalancer/app/serve-WebAp-7ORRH6HWOZZ/e7481f427047fd3f	AWS::ElasticLoadBalancingV2::LoadBalancer	✔ CREATE_COMPLETE	-
WebAppTargetGroup	arn:aws:elasticloadbalancing:us-west-2:023857535901:targetgroup/serve-WebAp-DXGGBDMTCMRN/44243327710af9e2	AWS::ElasticLoadBalancingV2::TargetGroup	✔ CREATE_COMPLETE	-
WebServerSecGroup	sg-05c0ade86cc1346de	AWS::EC2::SecurityGroup	✔ CREATE_COMPLETE	-

Output

1- Network

networkproject2mg

Delete

Update

Stack actions ▼

Create stack ▼

Stack info

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Outputs (10)

Q Search outputs

< 1 >

Key	Value	Description	Export name
PrivateSubnet1	subnet-02fcb16036bbf40c7	A reference to the private subnet in the 1st Availability Zone	UdacityProject2-PRI1-SN
PrivateSubnet2	subnet-069f46898fb67f8d4	A reference to the private subnet in the 2nd Availability Zone	UdacityProject2-PRI2-SN
PrivateSubnets	subnet-02fcb16036bbf40c7,subnet-069f46898fb67f8d4	A list of the private subnets	UdacityProject2-PRIV-NETS
PublicSubnet1	subnet-0d46a9eda2f0345d9	A reference to the public subnet in the 1st Availability Zone	UdacityProject2-PUB1-SN
PublicSubnet2	subnet-09fb91bdc82c949b4	A reference to the public subnet in the 2nd Availability Zone	UdacityProject2-PUB2-SN
PublicSubnets	subnet-0d46a9eda2f0345d9,subnet-09fb91bdc82c949b4	A list of the public subnets	UdacityProject2-PUB-NETS
VPC	vpc-0eb45e988ad435e0e	A reference to the created VPC	UdacityProject2-VPCID
VPCPrivateRouteTable1	rtb-0fd407ed1a5a7664b	Private Routing AZ1	UdacityProject2-PRI1-RT
VPCPrivateRouteTable2	rtb-0120e66838a068022	Private Routing AZ2	UdacityProject2-PRI2-RT
VPCPublicRouteTable	rtb-074334d0096e580e1	Public Routing	UdacityProject2-PUB-RT

2- Servers

CloudFormation > Stacks > serverproject2mg

Stacks (4)

Filter by stack name

Active View nested

< 1 >

Stacks

serverproject2mg

2023-01-21 20:28:56 UTC+0200

CREATE_COMPLETE

s3project2mg

2023-01-21 20:27:14 UTC+0200

CREATE_COMPLETE

networkproject2mg

2023-01-21 20:09:09 UTC+0200

serverproject2mg

Delete

Update

Stack actions

Create stack

Stack info

Events

Resources

Outputs

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Template

Change sets

Outputs (1)

Search outputs

< 1 >

Key	Value	Description	Export name
LBDNS	http://serve-WebAe-70RRHGHW00ZZ-980944519.us-west-2.elb.amazonaws.com	add http to url	UdacityProject2-Load-Balancer-URL

Load Balancer

Target group and Health Check and Listener

The screenshot shows the AWS Management Console interface for the 'Target groups' page. The left sidebar contains navigation links for EC2, Instances, Images, Elastic Block Store, Network & Security, Load Balancing, and Auto Scaling. The main content area displays a table of target groups. The 'server-WebApp-DXGGBDMTCMRN' target group is selected, and its details are shown in a modal window.

Target groups (1/1)

Name	ARN	Port	Protocol	Target type	Load balancer	VPC ID
server-WebApp-DXGGBDMTCMRN	arn:aws:elasticloadbalancing...	80	HTTP	Instance	server-WebApp-7ORRH6HWOZZ	vpc-0eb45e98ad435e0e

Target group: server-WebApp-DXGGBDMTCMRN

Health status: healthy

Instance ID	Name	Port	Zone	Health status
i-06910c728cd7545f1		80	us-west-2a	healthy
i-0f0e804937cafb2f1		80	us-west-2b	healthy
i-0f43b8d230d4cab6b		80	us-west-2a	healthy
i-01dbef79198231f45		80	us-west-2b	healthy

Auto scaling

The screenshot shows the AWS Management Console interface for the 'Auto Scaling Group details' page. The left sidebar contains navigation links for Spot Requests, Savings Plans, Reserved Instances, Dedicated Hosts, Capacity Reservations, Images, Elastic Block Store, Network & Security, Load Balancing, and Auto Scaling. The main content area displays the details of the 'serverproject2mg-WebAppGroup-15DNV620YZWMH' Auto Scaling group.

Group details

Desired capacity	4	Auto Scaling group name	serverproject2mg-WebAppGroup-15DNV620YZWMH
Minimum capacity	4	Date created	Sat Jan 21 2023 20:31:18 GMT+0200 (Eastern European Standard Time)
Maximum capacity	8	Amazon Resource Name (ARN)	arn:aws:autoscaling:us-west-2:02385735901:autoScalingGroup:1a4d39c6-4781-401b-9442-69de090efadb:autoScalingGroupName/serverproject2mg-WebAppGroup-15DNV620YZWMH

Launch configuration

Launch configuration	serverproject2mg-WebAppLaunchConfig-cHBhlpYIPvq	AMI ID	ami-04bad3c587fe0d89	Security groups	sg-05c0ade86cc1346de
Instance type	t3.small	Key pair name	-	Create time	Sat Jan 21 2023 20:31:14 GMT+0200 (Eastern European Standard Time)
Storage (volumes)	/dev/sdk				

Network

Availability Zones	us-west-2a, us-west-2b	Subnet ID	subnet-069f46898fb67f8d4, subnet-02fcb16036bbf40c7
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Project Final output

DNS URL:

<http://serve-webap-7orrh6hwozz-980944519.us-west-2.elb.amazonaws.com/>

