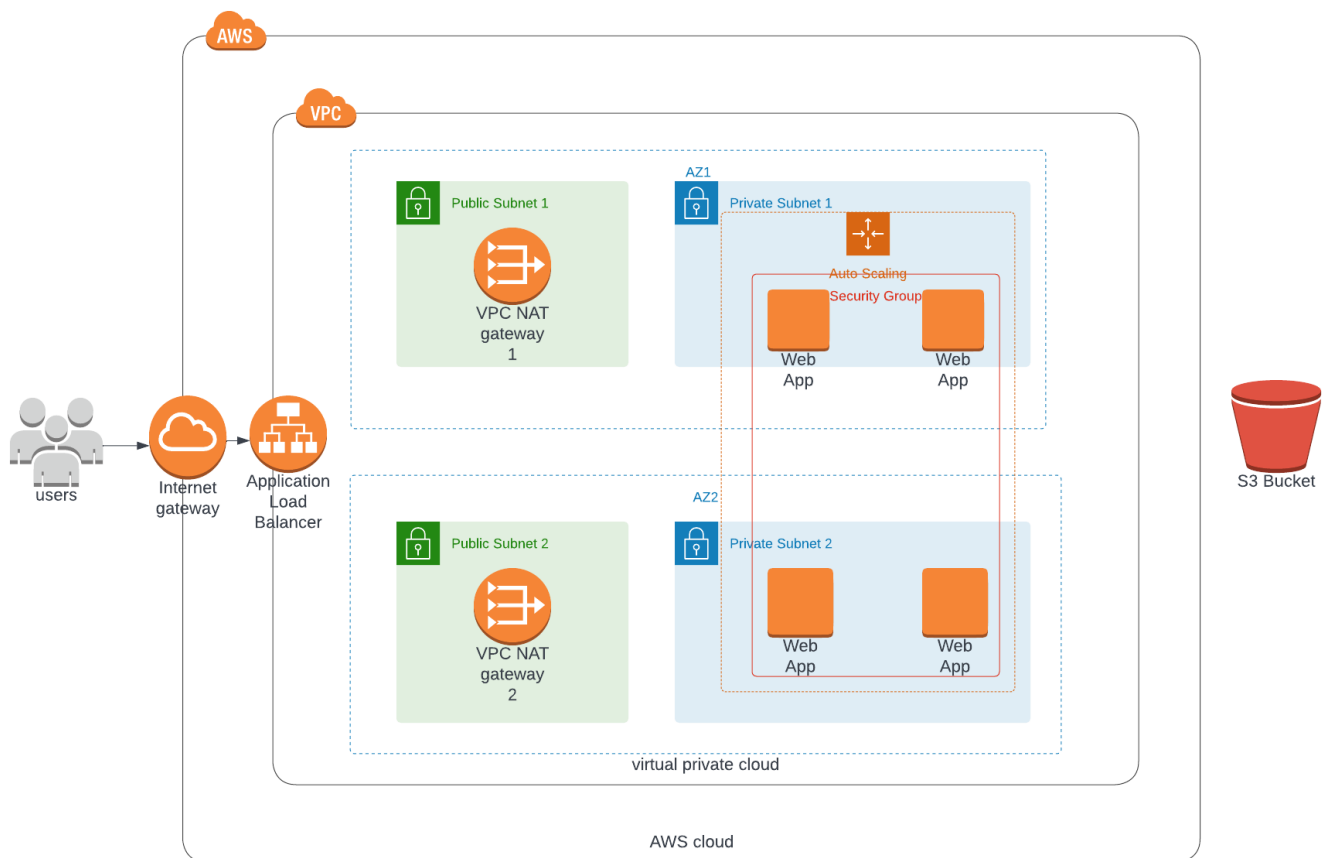# Deploy a high-availability web app using CloudFormation

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)

🔍 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] [Update] [Stack actions ▼] [Create stack ▼]

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

Parameters (5)

🔍 Search

‹ 1 › ⚙

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

Resources

1. **Network**

networkproject2mg   ⚙ ✕

<div align="right">

[Delete] [Update] [Stack actions ▼] [Create stack ▼]

</div>

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

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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	

Resources (21)

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	-

Resources (21)

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

Logical ID	Physical ID	Type	Status	Module
ALBListenerRule	arn:aws:elasticloadbalancing:us-west-2:023857535901:listener-rule/app/serve-WebAp-7ORRH6HWOOZZ/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-7ORRH6HWOOZZ/e7481f427047fd3f/2ffa3884cf3e4db5 ↗	AWS::ElasticLoadBalancingV2::Listener	✓ CREATE_COMPLETE	-
ProfileWithRolesForOurApp	serverproject2mg-ProfileWithRolesForOurApp-o2FLKmuLlpZF	AWS::IAM::InstanceProfile	✓ CREATE_COMPLETE	-
WebAppGroup	serverproject2mg-WebAppGroup-15DNY620YZWMH ↗	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-7ORRH6HWOOZZ/e7481f427047fd3f ↗	AWS::ElasticLoadBalancingV2::LoadBalancer	✓ CREATE_COMPLETE	-
WebAppTargetGroup	arn:aws:elasticloadbalancing:us-west-2:023857535901:targetgroup/server-WebAp-DXGGBDMTCMRN/44243327710af9e2 ↗	AWS::ElasticLoadBalancingV2::TargetGroup	✓ CREATE_COMPLETE	-
WebServerSecGroup	sg-05c0ade86cc1346de ↗	AWS::EC2::SecurityGroup	✓ CREATE_COMPLETE	-

Resources (9)

Output

1- __Network__

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__

Key	Value	Description	Export name
LBDNS	http://serve-WebAp-7ORRH6HWOOZZ-980944519.us-west-2.elb.amazonaws.com	add http to url	UdacityProject2-Load-Balancer-URL

Load Balancer

Target group and Health Check and Listener

Auto scaling

Project Final output

DNS URL:

http://serve-webap-7orrh6hwoozz-980944519.us-west-2.elb.amazonaws.com/

it works! Udagram, Udacity