

CloudFormation - Stack Termination Protection

In below CF template, we are creating a single EC2 instance with UserData

```
{ ec2-instance-userdata.json x
80 },
81
82 "Resources" : {
83   "EC2Instance" : {
84     "Type" : "AWS::EC2::Instance",
85     "Properties" : {
86       "InstanceType" : { "Ref" : "InstanceType" },
87       "SecurityGroups" : [ { "Ref" : "InstanceSecurityGroup" } ],
88       "KeyName" : { "Ref" : "KeyName" },
89       "ImageId" : { "Fn::FindInMap" : [ "AWSRegionArch2AMI", { "Ref" : "AWS::Region" },
90       { "Fn::FindInMap" : [ "AWSInstanceType2Arch", { "Ref" : "InstanceType" }, "Arch" ] } ] },
91       "UserData": {
92         "Fn::Base64": {
93           "Fn::Join": [
94             "\n",
95             [
96               "#!/bin/bash -xe",
97               "yum update -y",
98               "yum install httpd -y",
99               "echo \"<h1 align='center'>Awesome :)</h1>\" > /var/www/html/index.html",
100               "service httpd start",
101               "chkconfig httpd on"
102             ]
103           ]
104         }
105       }
106     }
107   },
108   "InstanceSecurityGroup" : {
109     "Type" : "AWS::EC2::SecurityGroup",
110     "Properties" : {
111       "GroupDescription": "Allow all traffic",
112       "SecurityGroupIngress": [
113         { "IpProtocol": "-1", "FromPort": -1, "ToPort": 65535, "Source": "0.0.0.0/0" }
114       ]
115     }
116   },
117   "KeyName" : {
118     "Type" : "AWS::EC2::KeyPair",
119     "Properties" : {
120       "KeyName": "my-key",
121       "PublicKey": "ssh-rsa AAAAB3NzaC1ka...
122     }
123   }
124 }
125
126 "Outputs" : {
127   "EC2InstanceID" : {
128     "Value" : { "Ref" : "EC2Instance" },
129     "Description": "EC2 Instance ID"
130   }
131 }
```

While creating the stack we are going to Enable the Termination Protection so that we are not able to Delete the stack which eventually deletes all the resources created by the stack.

Create stack

Select Template

Specify Details

Options

Review

Specify Details

Specify a stack name and parameter values. You can use or change the default parameter values, which are defined in the AWS CloudFormation template. [Learn more.](#)

Stack name stack-termination-protection-demo

Parameters

InstanceType t2.micro WebServer EC2 instance type

KeyName sysops
Name of an existing EC2 KeyPair to enable SSH access to the instance

SSHLocation 0.0.0.0/0 The IP address range that can be used to SSH to the EC2 instances

Cancel Previous Next

Secure https://console.aws.amazon.com/cloudformation/home?region=us-east-1#/stacks/new

Existing Amazon SNS topic

Existing topic ARN

Termination Protection ☒ Enabled ☐ Disabled

Timeout Minutes

Rollback on failure ☒ Yes ☐ No

Stack policy ☐ Enter policy

Upload policy file

Choose file No file chosen

Learn more

Cancel Previous Next

Termination Protection is Enabled for this Stack

CloudFormation

Stacks

Create Stack

Actions

Design template

Filter: Active

By Stack Name

Showing 3 stacks

Stack Name	Created Time	Updated Time	Status	Description
☒ stack-termination-protection-demo	2018-09-08 08:57:45 UTC+0550		CREATE_COMPLETE	AWS CloudFormation Sample Template EC2InstanceWithSecurityGr...

Overview

Outputs

Resources

Events

Template

Parameters

Tags

Stack Policy

Change Sets

Rollback Triggers

Filter by: Status

Search events

2018-09-08	Status	Type	Logical ID	Status Reason
08:58:34 UTC+0550	CREATE_COMPLETE	AWS::CloudFormation::Stack	stack-termination-protection-de mo	
08:58:31 UTC+0550	CREATE_COMPLETE	AWS::EC2::instance	EC2Instance	
08:57:58 UTC+0550	CREATE_IN_PROGRESS	AWS::EC2::instance	EC2Instance	Resource creation Initiated
08:57:57 UTC+0550	CREATE_IN_PROGRESS	AWS::EC2::instance	EC2Instance	
08:57:55 UTC+0550	CREATE_COMPLETE	AWS::EC2::SecurityGroup	InstanceSecurityGroup	
08:57:53 UTC+0550	CREATE_IN_PROGRESS	AWS::EC2::SecurityGroup	InstanceSecurityGroup	Resource creation Initiated
08:57:48 UTC+0550	CREATE_IN_PROGRESS	AWS::EC2::SecurityGroup	InstanceSecurityGroup	
08:57:45 UTC+0550	CREATE_IN_PROGRESS	AWS::CloudFormation::Stack	stack-termination-protection-de mo	User Initiated

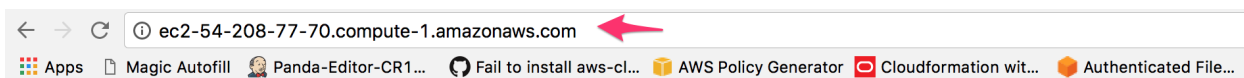
Create Stack Actions Design template

Filter: Active By Stack Name Showing 3 stacks

Stack Name	Created Time	Updated Time	Status	Description
stack-termination-protection-demo	2018-09-08 08:57:45 UTC+0550		CREATE_COMPLETE	AWS CloudFormation Sample Template EC2InstanceWithSecurityGr...

Overview Outputs Resources Events Template Parameters Tags Stack Policy Change Sets Rollback Triggers

Key	Value	Description	Export Name
InstanceId	i-04cf51d6944f2e93f	InstanceId of the newly created EC2 instance	
PublicIP	54.208.77.70	Public IP address of the newly created EC2 instance	
AZ	us-east-1d	Availability Zone of the newly created EC2 instance	
PublicDNS	ec2-54-208-77-70.compute-1.amazonaws.com	Public DNSName of the newly created EC2 instance	



Awesome :)

Now let's try to Delete the Stack

