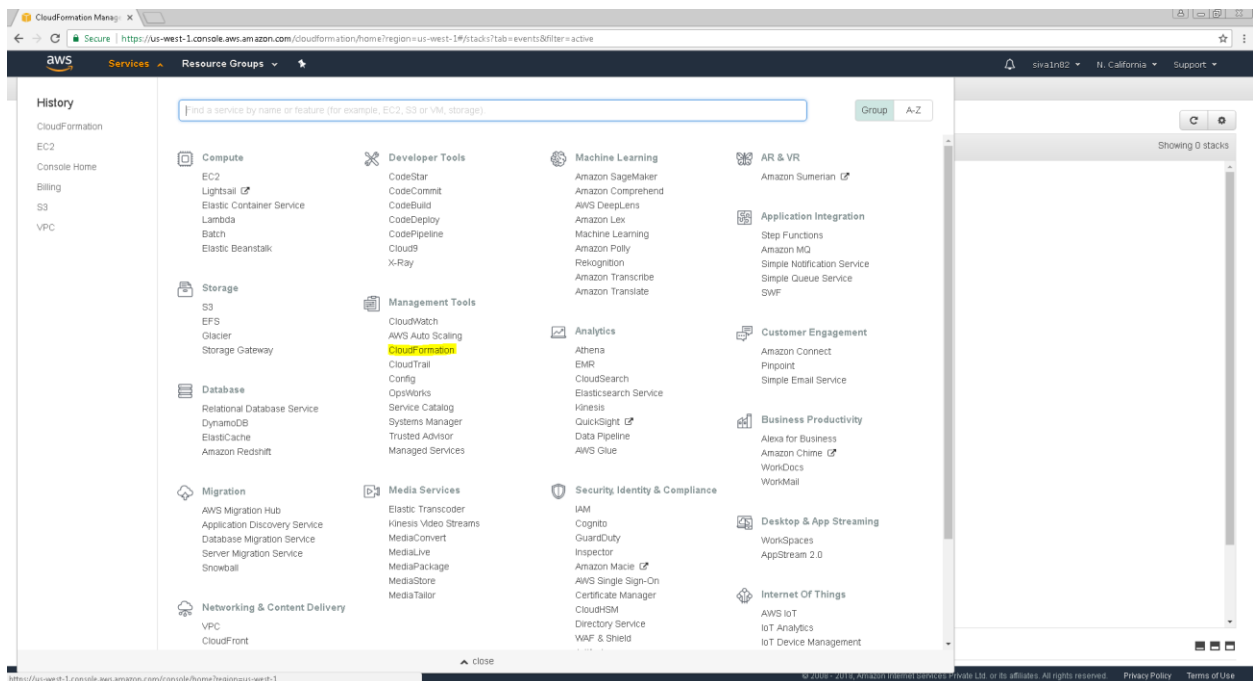


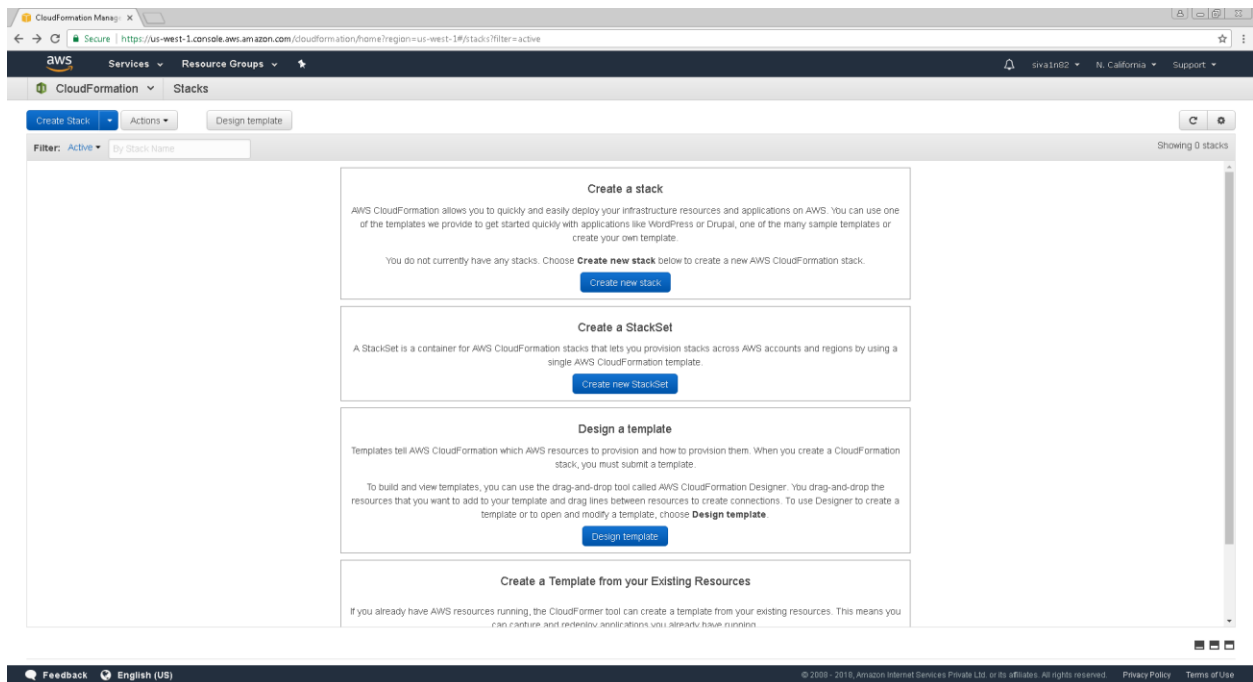
Lab21

Cloud Formation – LAMP stack

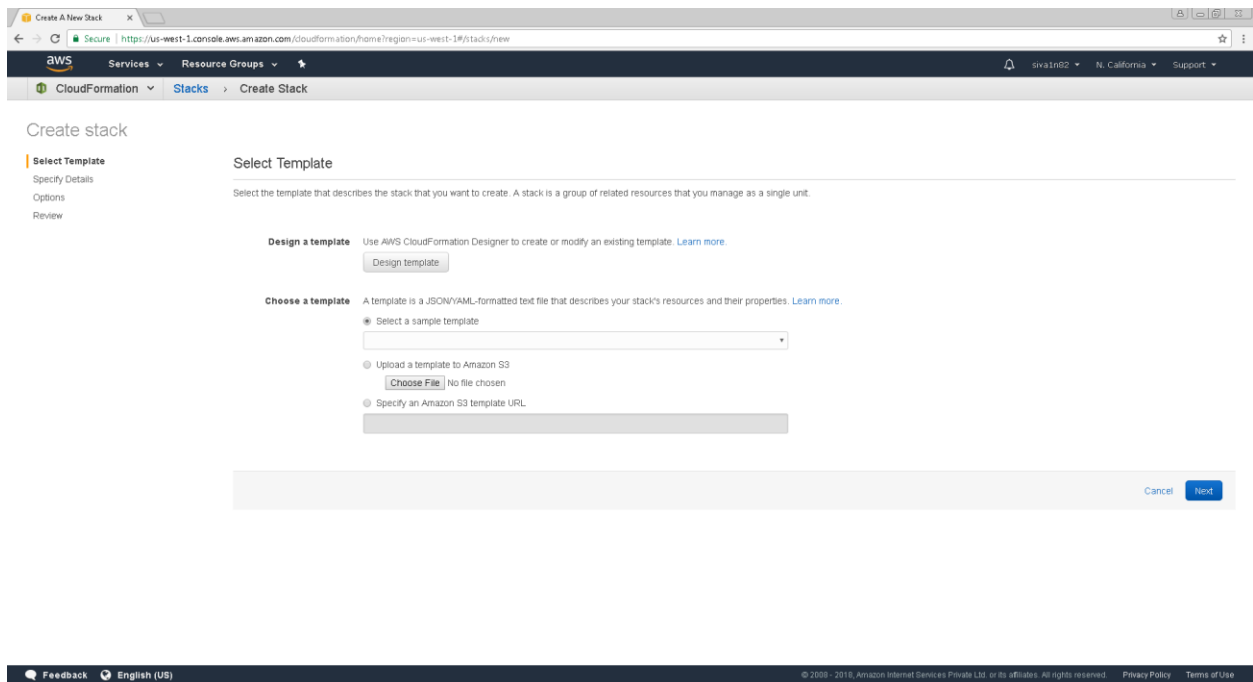
Click “Cloud formation”.



Click “Create new stack”.



In Select a sample template, click drop down box.



The screenshot shows the AWS CloudFormation console in the 'Create stack' wizard. The 'Select Template' step is active, showing options to design a template or choose one. The 'Choose a template' section has three radio buttons: 'Select a sample template' (selected), 'Upload a template to Amazon S3', and 'Specify an Amazon S3 template URL'. The 'Select a sample template' option has a dropdown menu. The 'Upload a template to Amazon S3' option has a 'Choose File' button. The 'Specify an Amazon S3 template URL' option has a text input field. At the bottom right, there are 'Cancel' and 'Next' buttons.

Create stack

Select Template

Select the template that describes the stack that you want to create. A stack is a group of related resources that you manage as a single unit.

Design a template Use AWS CloudFormation Designer to create or modify an existing template. [Learn more](#)

[Design template](#)

Choose a template A template is a JSON/YAML-formatted text file that describes your stack's resources and their properties. [Learn more](#)

☒ Select a sample template

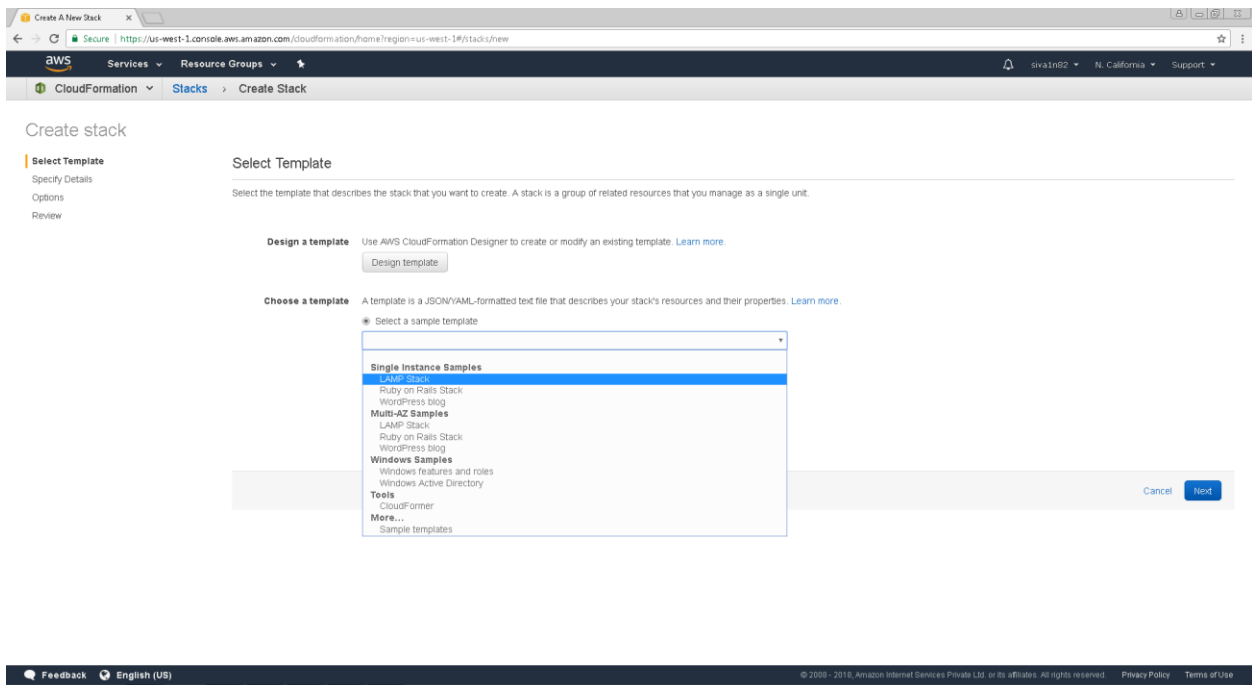
☐ Upload a template to Amazon S3

☐ Specify an Amazon S3 template URL

[Choose File](#) No file chosen

[Cancel](#) [Next](#)

Click “Lamp stack”.



Create A New Stack

aws Services Resource Groups CloudFormation Stacks Create Stack

Create stack

- Select Template
- Specify Details
- Options
- Review

Select Template

Select the template that describes the stack that you want to create. A stack is a group of related resources that you manage as a single unit.

Design a template Use AWS CloudFormation Designer to create or modify an existing template. [Learn more](#)

[Design template](#)

Choose a template A template is a JSON/YAML-formatted text file that describes your stack's resources and their properties. [Learn more](#)

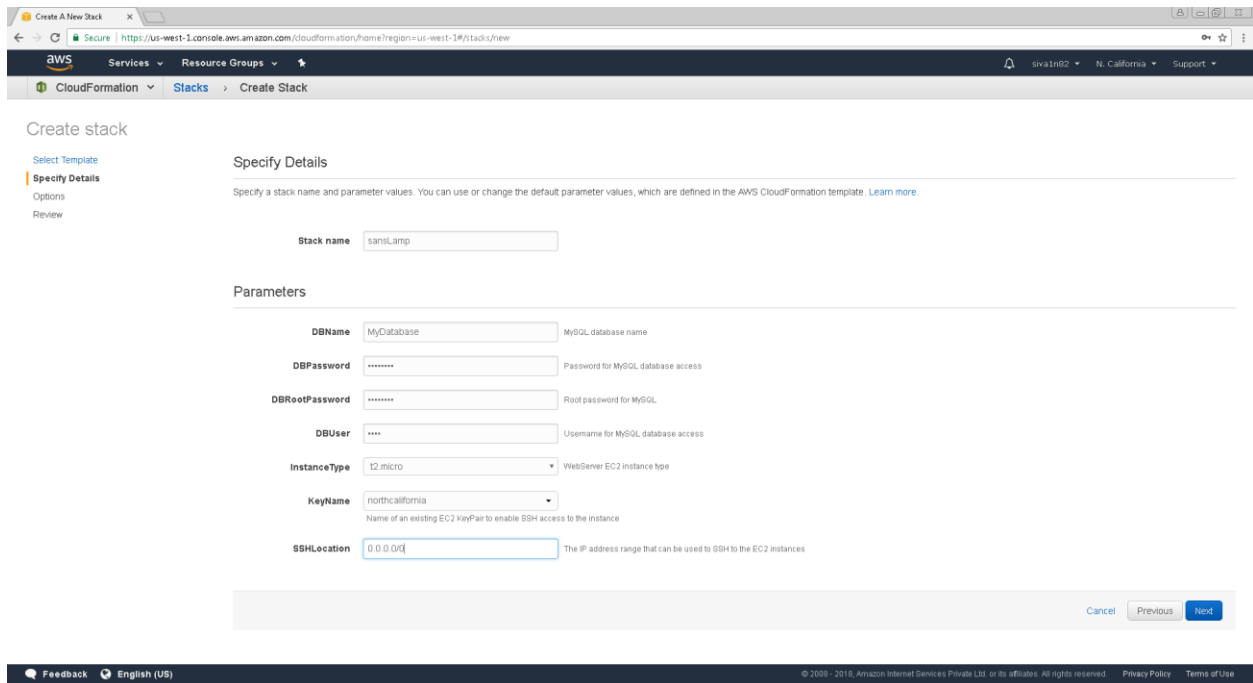
Select a sample template

- Single Instance Samples**
 - LAMP Stack**
 - Ruby on Rails Stack
 - WordPress blog
- Multi-AZ Samples**
 - LAMP Stack
 - Ruby on Rails Stack
 - WordPress blog
- Windows Samples**
 - Windows features and roles
 - Windows Active Directory
- Tools**
 - CloudFormer
- More...**
 - Sample templates

[Cancel](#) [Next](#)

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Specify stackname as sansLamp, DBPassword and user. Select t2.micro, choose key name and ssh location as 0.0.0.0/0



Create New Stack

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: sansLamp

Parameters

DBName: MySQLDatabase MySQL database name

DBPassword: Password for MySQL database access

DBRootPassword: Root password for MySQL

DBUser: Username for MySQL database access

InstanceType: t2.micro WebServer EC2 instance type

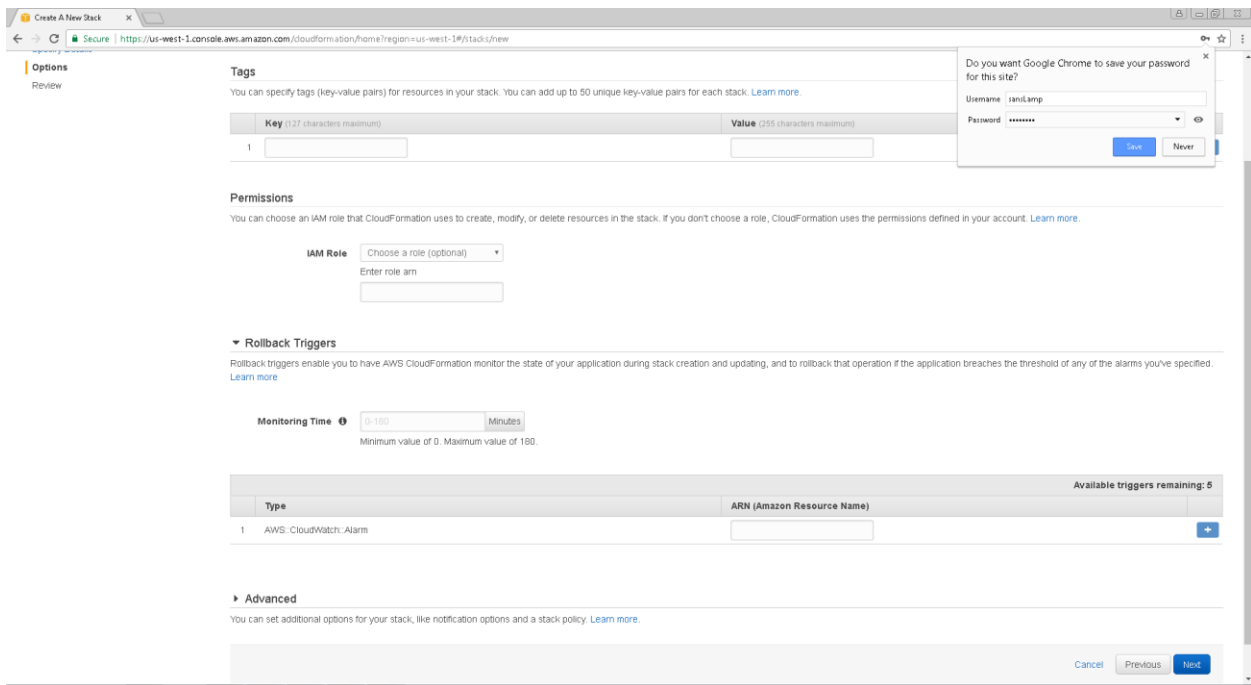
KeyName: northcalifornia Name of an existing EC2 KeyPair to enable SSH access to the instance

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

Cancel Previous Next

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Click “Next”.



Create a New Stack

Options
Review

Tags
You can specify tags (key-value pairs) for resources in your stack. You can add up to 50 unique key-value pairs for each stack. [Learn more.](#)

Key (127 characters maximum)	Value (255 characters maximum)
1	

Permissions
You can choose an IAM role that CloudFormation uses to create, modify, or delete resources in the stack. If you don't choose a role, CloudFormation uses the permissions defined in your account. [Learn more.](#)

IAM Role Choose a role (optional)
Enter role arn

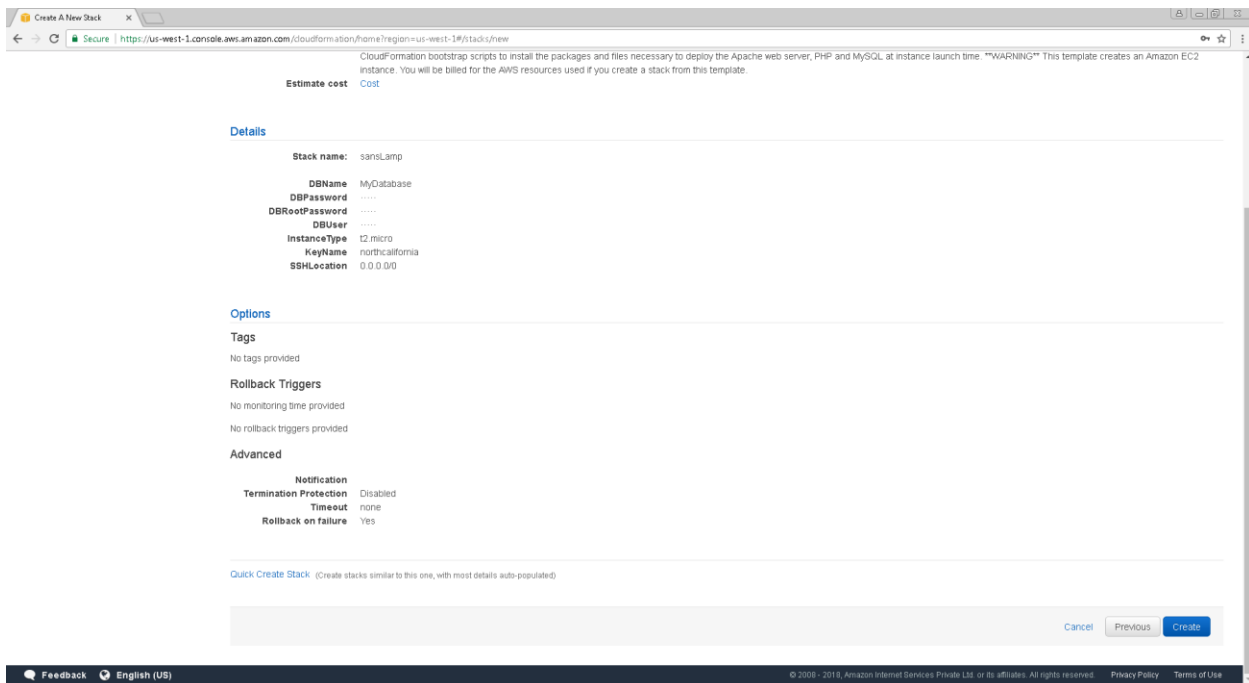
Rollback Triggers
Rollback triggers enable you to have AWS CloudFormation monitor the state of your application during stack creation and updating, and to rollback that operation if the application breaches the threshold of any of the alarms you've specified. [Learn more.](#)

Monitoring Time 0-180 Minutes
Minimum value of 0. Maximum value of 180.

Type	ARN (Amazon Resource Name)	Available triggers remaining: 5
1 AWS CloudWatch Alarm	<input type="text"/>	<input type="button" value="+"/>

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

Click “Create”.



Create A New Stack

CloudFormation bootstrap scripts to install the packages and files necessary to deploy the Apache web server, PHP and MySQL at instance launch time. **WARNING** This template creates an Amazon EC2 instance. You will be billed for the AWS resources used if you create a stack from this template.

Estimate cost [Cost](#)

Details

Stack name: sansLamp

DBName: MySQLbase

DBPassword:

DBRootPassword:

DBUser:

InstanceType: t2.micro

KeyName: northcalifornia

SSHLocation: 0.0.0.0/0

Options

Tags

No tags provided

Rollback Triggers

No monitoring time provided

No rollback triggers provided

Advanced

Notification: Disabled

Termination Protection: Disabled

Timeout: none

Rollback on failure: Yes

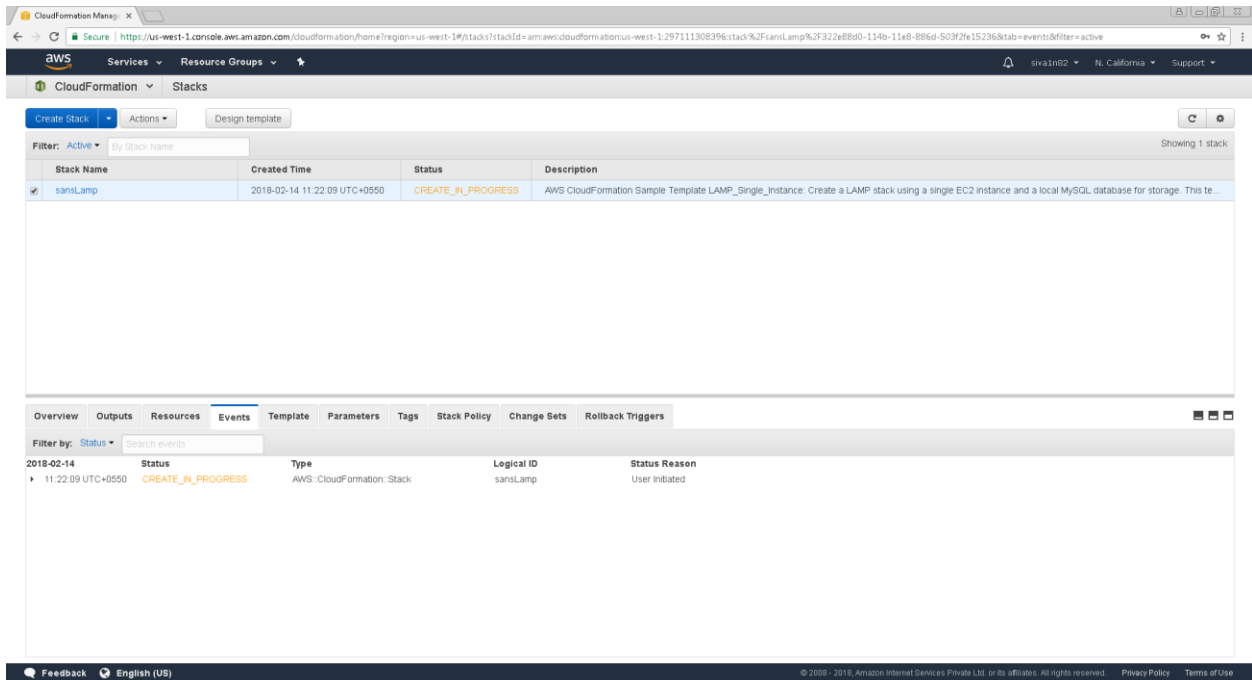
[Quick Create Stack](#) (Create stacks similar to this one, with most details auto-populated)

[Cancel](#) [Previous](#) [Create](#)

Feedback English (US)

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Creation in progress

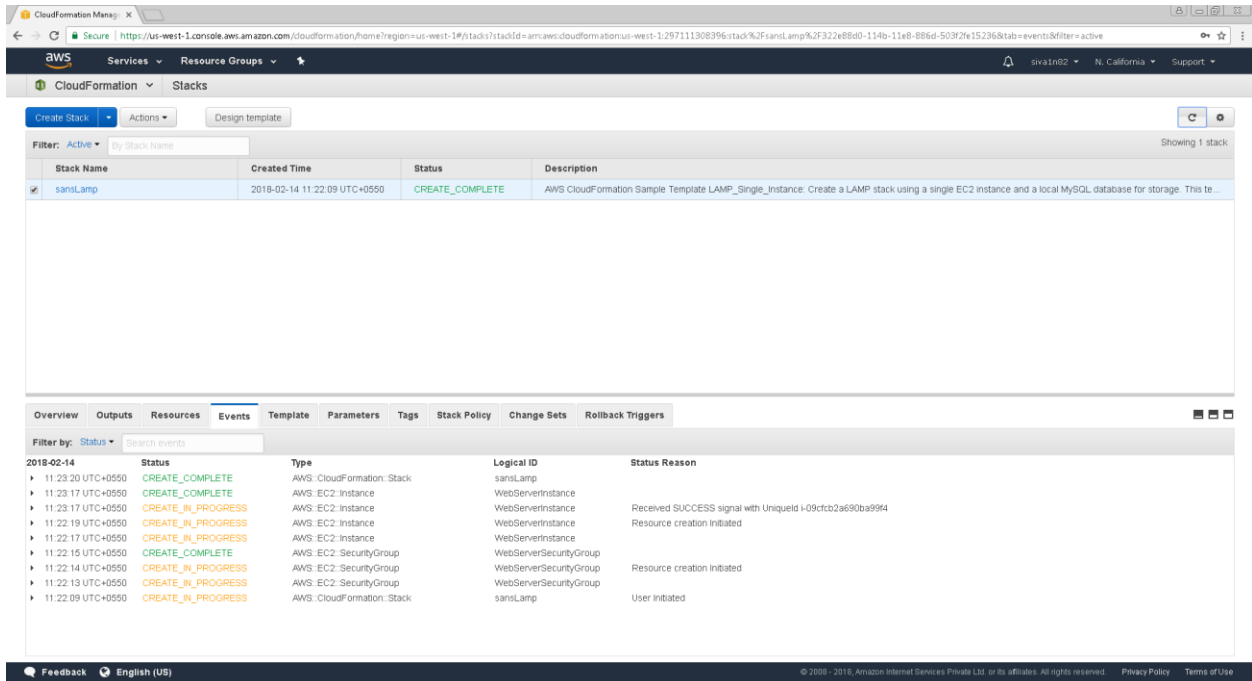


The screenshot shows the AWS CloudFormation console. At the top, there's a navigation bar with 'aws' logo, 'Services', 'Resource Groups', and user information 'siva1n02' in 'N. California'. Below this, the 'CloudFormation' section is active, showing a list of stacks. One stack named 'sansLamp' is listed with a status of 'CREATE_IN_PROGRESS'. The stack was created on '2018-02-14 11:22:09 UTC+0550'. The description reads: 'AWS CloudFormation Sample Template LAMP_Single_Instance: Create a LAMP stack using a single EC2 instance and a local MySQL database for storage. This te...'. Below the stack list, the 'Events' tab is selected, showing a single event for the stack. The event occurred on '2018-02-14' at '11:22:09 UTC+0550' with a status of 'CREATE_IN_PROGRESS'. The event type is 'AWS::CloudFormation::Stack', the logical ID is 'sansLamp', and the status reason is 'User Initiated'.

Stack Name	Created Time	Status	Description
sansLamp	2018-02-14 11:22:09 UTC+0550	CREATE_IN_PROGRESS	AWS CloudFormation Sample Template LAMP_Single_Instance: Create a LAMP stack using a single EC2 instance and a local MySQL database for storage. This te...

Filter by: Status	Status	Type	Logical ID	Status Reason
2018-02-14 11:22:09 UTC+0550	CREATE_IN_PROGRESS	AWS::CloudFormation::Stack	sansLamp	User Initiated

Lamp stack has been successfully created.

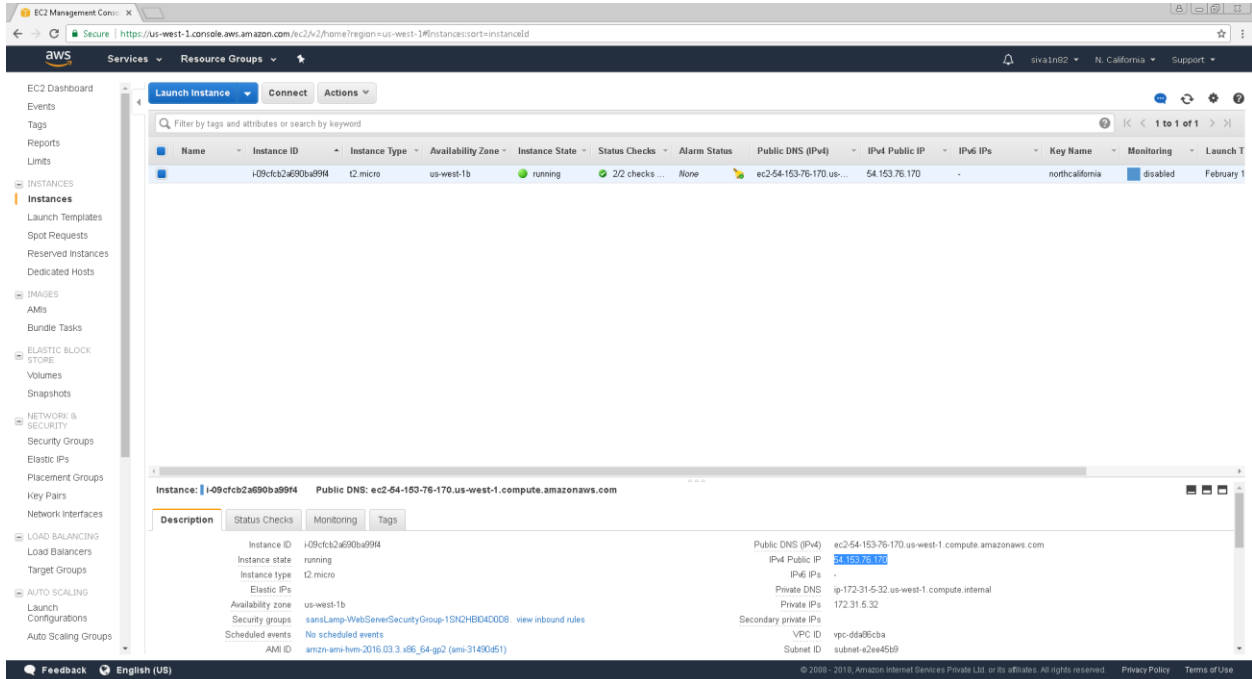


The screenshot shows the AWS CloudFormation console interface. At the top, there's a navigation bar with 'Services', 'Resource Groups', and a search bar. Below this, the 'CloudFormation' section is active, showing a list of stacks. A single stack named 'sansLamp' is listed with a status of 'CREATE_COMPLETE' and a description: 'AWS CloudFormation Sample Template LAMP_Single_Instance: Create a LAMP stack using a single EC2 instance and a local MySQL database for storage. This te...'. Below the stack list, the 'Events' tab is selected, displaying a detailed log of the stack's creation process. The events table shows various steps from 'User Initiated' to 'CREATE_COMPLETE' for different resources like 'WebServerInstance', 'WebServerSecurityGroup', and 'MySQLDatabaseInstance'.

Stack Name	Created Time	Status	Description
sansLamp	2018-02-14 11:22:09 UTC+0550	CREATE_COMPLETE	AWS CloudFormation Sample Template LAMP_Single_Instance: Create a LAMP stack using a single EC2 instance and a local MySQL database for storage. This te...

Filter by: Status	Status	Type	Logical ID	Status Reason
2018-02-14	CREATE_COMPLETE	AWS: CloudFormation: Stack	sansLamp	
11:23:20 UTC+0550	CREATE_COMPLETE	AWS: EC2: Instance	WebServerInstance	
11:23:17 UTC+0550	CREATE_IN_PROGRESS	AWS: EC2: Instance	WebServerInstance	Received SUCCESS signal with UniquedId I-09dctb2a690ba994
11:23:19 UTC+0550	CREATE_IN_PROGRESS	AWS: EC2: Instance	WebServerInstance	Resource creation initiated
11:22:19 UTC+0550	CREATE_IN_PROGRESS	AWS: EC2: Instance	WebServerInstance	
11:22:17 UTC+0550	CREATE_COMPLETE	AWS: EC2: SecurityGroup	WebServerSecurityGroup	
11:22:15 UTC+0550	CREATE_IN_PROGRESS	AWS: EC2: SecurityGroup	WebServerSecurityGroup	Resource creation initiated
11:22:14 UTC+0550	CREATE_IN_PROGRESS	AWS: EC2: SecurityGroup	WebServerSecurityGroup	
11:22:13 UTC+0550	CREATE_IN_PROGRESS	AWS: EC2: SecurityGroup	WebServerSecurityGroup	
11:22:09 UTC+0550	CREATE_IN_PROGRESS	AWS: CloudFormation: Stack	sansLamp	User Initiated

Go to instance, one instance has been created.



The screenshot shows the AWS Management Console for the EC2 service. The left sidebar contains navigation links for various AWS services. The main content area displays a table of EC2 instances. One instance is listed with the following details:

Name	Instance ID	Instance Type	Availability Zone	Instance State	Status Checks	Alarm Status	Public DNS (IPv4)	IPv4 Public IP	IPv6 IPs	Key Name	Monitoring	Launch Time
	i-09cfcb2a690ba99f4	t2.micro	us-west-1b	running	2/2 checks ...	None	ec2-54-153-76-170.us-...	54.153.76.170	-	northcalifornia	disabled	February 1

Below the table, the details for the selected instance (i-09cfcb2a690ba99f4) are shown. The Public DNS is ec2-54-153-76-170.us-west-1.compute.amazonaws.com. The IPv4 Public IP is 54.153.76.170. The Private DNS is ip-172-31-5-32.us-west-1.compute.internal. The Private IPs are 172.31.5.32. The VPC ID is vpc-d8a06c8a. The Subnet ID is subnet-e2ee45b9.

[illegible]