

## CloudFormation stack

The screenshot shows the AWS CloudFormation console interface. The top navigation bar includes the AWS logo, a search bar, and the user's name 'Sai Charan'. The main content area is titled 'Provide a stack name' and contains a text input field for the 'Stack name' with the value 'ec2-os-update'. Below this, the 'Parameters' section is visible, containing several input fields: 'MaintenanceWindowSchedule' with the value 'cron(0 5 ? \* SUN \*)', 'MaintenanceWindowScheduleTimezone' with the value 'UTC', 'Subnet' with a dropdown menu showing 'subnet-Oeca8f7dfb1cfb111', and 'VPC' with a dropdown menu showing 'vpc-02f241005278ce1e1'. The 'Permissions' section is also visible at the bottom.

**Provide a stack name**

Stack name

ec2-os-update

Stack name can include letters (A-Z and a-z), numbers (0-9), and dashes (-).

**Parameters**

Parameters are defined in your template and allow you to input custom values when you create or update a stack.

**MaintenanceWindowSchedule**

SSM cron expressions to trigger the maintenance window for patch installation with an optional reboot

cron(0 5 ? \* SUN \*)

**MaintenanceWindowScheduleTimezone**

Timezone for maintenance window schedule (in IANA format)

UTC

**Subnet**

Select one of the available subnets

subnet-Oeca8f7dfb1cfb111

**VPC**

Select the one and only default VPC

vpc-02f241005278ce1e1

**Permissions**

IAM role - optional

Choose the IAM role for CloudFormation to use for all operations performed on the stack.

## Patch Manager dashboard

The screenshot shows the AWS Patch Manager dashboard. The top navigation bar includes the AWS logo, a search bar, and the user's name 'Sai Charan'. The main content area is titled 'Patch Manager' and contains a 'Dashboard' tab. The dashboard shows an 'Overview of patching operations - new' section with a 'Patch now' button and a 'Create patch policy' button. Below this, there are several sections: 'Amazon EC2 instance management' with a 'Reporting not enabled' message and an 'Enable Explorer' button; 'Compliance summary' with a '100%' compliance status and a legend for 'Compliant', 'Critical noncompliant', 'High noncompliant', and 'Other noncompliant'; and 'Noncompliance counts' with a table showing the number of noncompliant nodes for each reason. The bottom of the dashboard shows a 'Nodes with missing patches' section.

**Patch Manager**

Now use patch policies in Patch Manager to patch applications and nodes. Patch in a single account, or across multiple accounts.

**Overview of patching operations - new**

**Amazon EC2 instance management**

Snapshot of EC2 instances in your AWS account that are and are not managed by Systems Manager.

**Reporting not enabled**

To view the EC2 instance snapshot, enable the Amazon EC2 OpsData source in Explorer and set up recording in AWS Config. [Learn more](#)

**Compliance summary**

Summary of compliance status for managed nodes that have previously reported patch data.

**100%**

Compliant

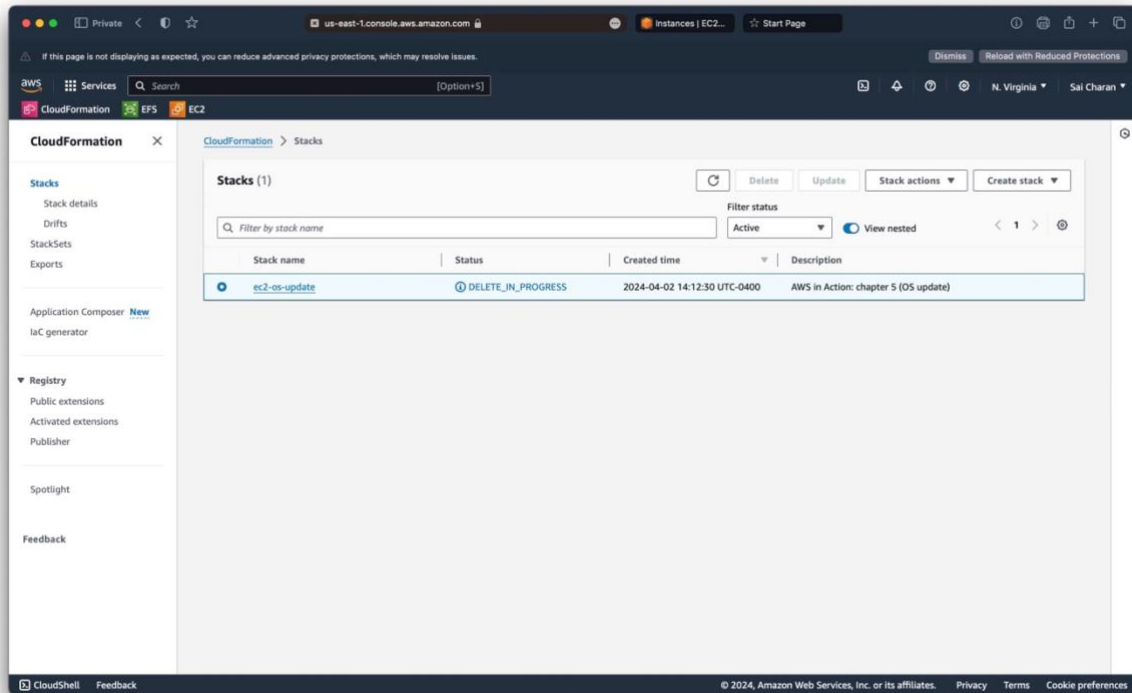
**Noncompliance counts**

The number of noncompliant nodes for each of the most common reasons for being out of compliance.

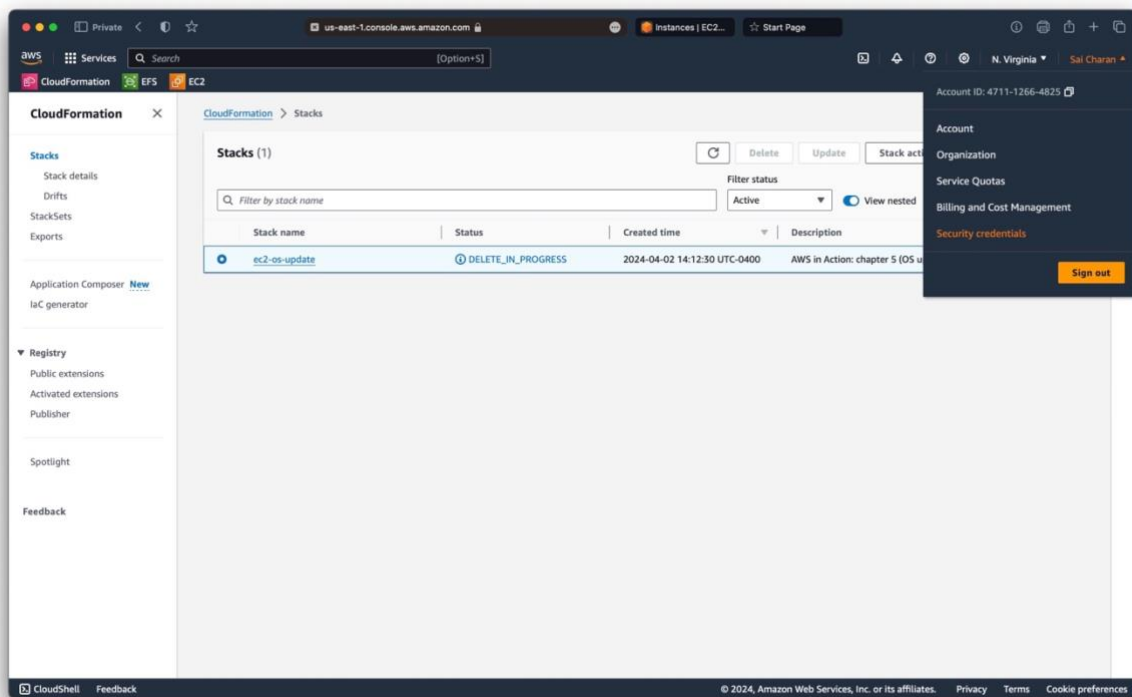
**Compliance reports**

Count of instances based on the age of their most recent patching compliance reports.

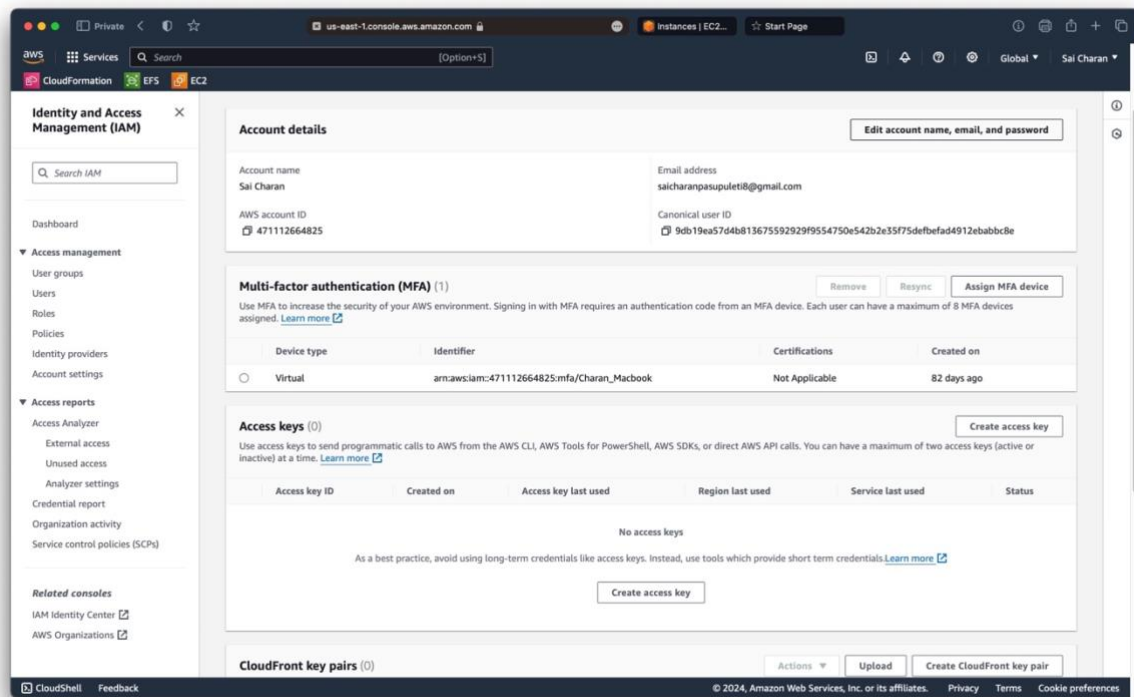
## Deleting the Stack



## Opening the Security Credentials

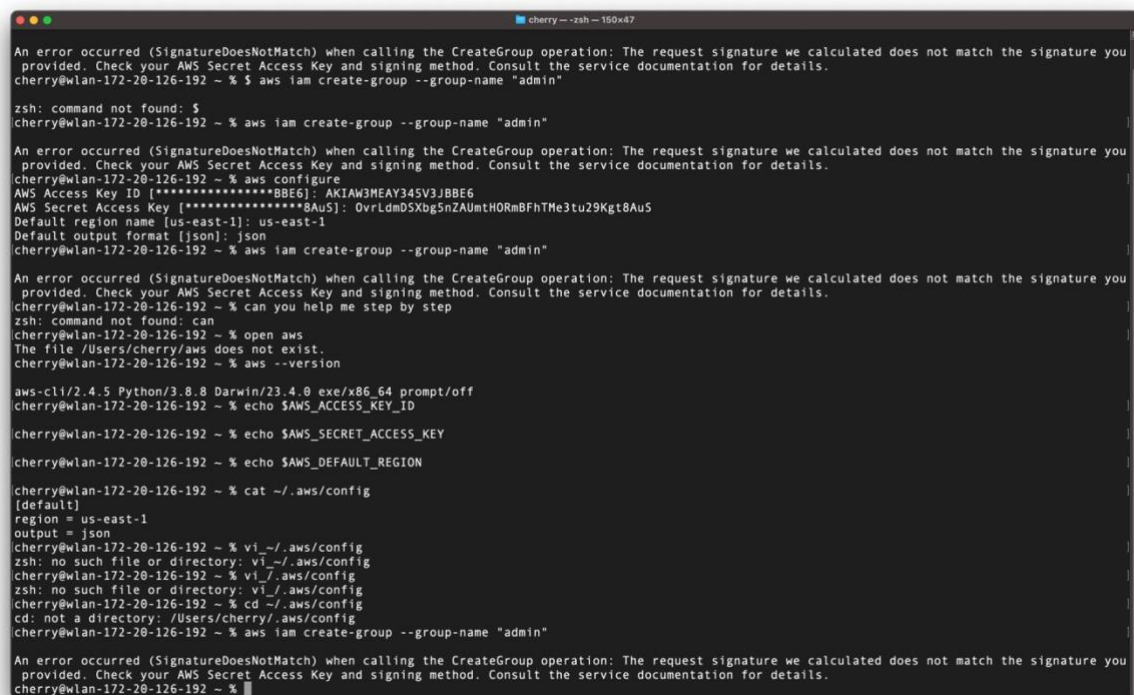


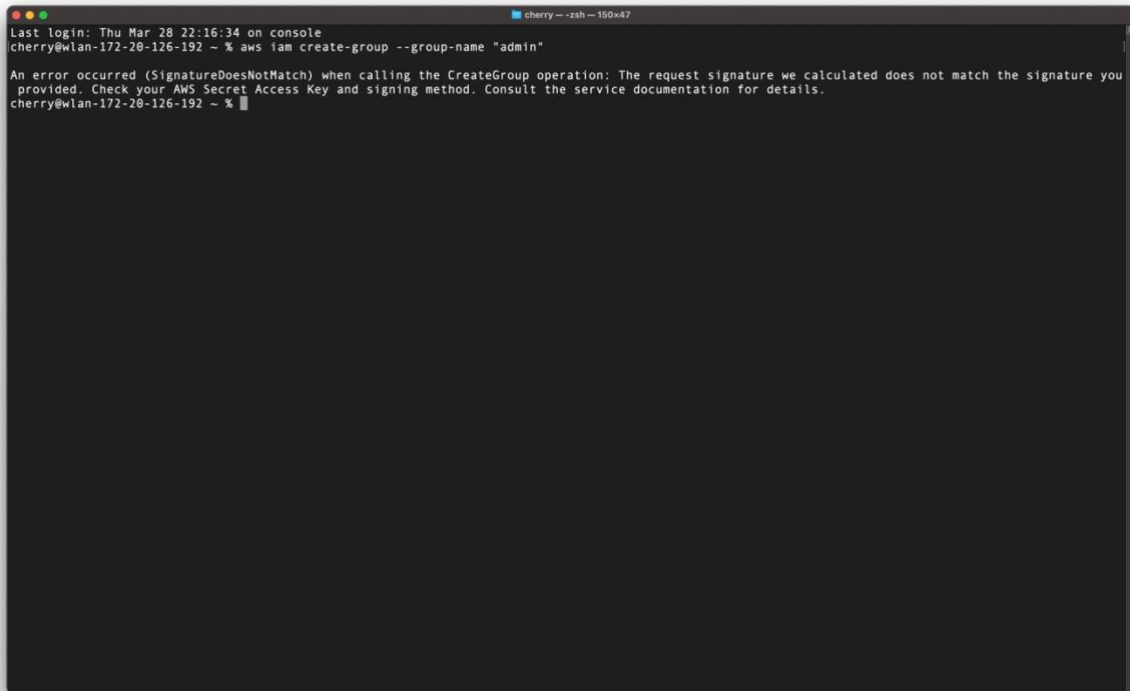
## MFA (Multi Factor Authentication):



Because, I already have the MFA since the day I open the AWS account I didn't change anything in this step. I have MFA in the last 82 Days.

## AWS Access Management:



A terminal window with a dark background and light text. The title bar at the top shows a red, yellow, and green window control icon on the left, followed by the text 'cherry - ssh - 150x47'. The terminal content shows a login message: 'Last login: Thu Mar 28 22:16:34 on console'. Below that is the prompt 'cherry@wlan-172-20-126-192 ~ %' followed by the command 'aws iam create-group --group-name "admin"'. The next line shows an error message: 'An error occurred (SignatureDoesNotMatch) when calling the CreateGroup operation: The request signature we calculated does not match the signature you provided. Check your AWS Secret Access Key and signing method. Consult the service documentation for details.' The prompt 'cherry@wlan-172-20-126-192 ~ %' is followed by a cursor.

```
Last login: Thu Mar 28 22:16:34 on console
cherry@wlan-172-20-126-192 ~ % aws iam create-group --group-name "admin"
An error occurred (SignatureDoesNotMatch) when calling the CreateGroup operation: The request signature we calculated does not match the signature you
provided. Check your AWS Secret Access Key and signing method. Consult the service documentation for details.
cherry@wlan-172-20-126-192 ~ %
```

Reflection: Coming to the creating groups and updating with new security credentials, I'm having an error proceeding to the next step from the MAC TERMINAL and using the commands use for AWS CONFIGURE. I have verified with the key terms like Access I\_D, Access Key, Region, Output format. still, I have the same error repeatedly which didn't let me move to the next step with changing the security credentials and using the connection with AWS through the MAC TERMINAL

**The error** "An error occurred (SignatureDoesNotMatch) when calling the CreateGroup operation: The request signature we calculated does not match the signature you provided. Check your AWS Secret Access Key and signing method. Consult the service documentation for details."