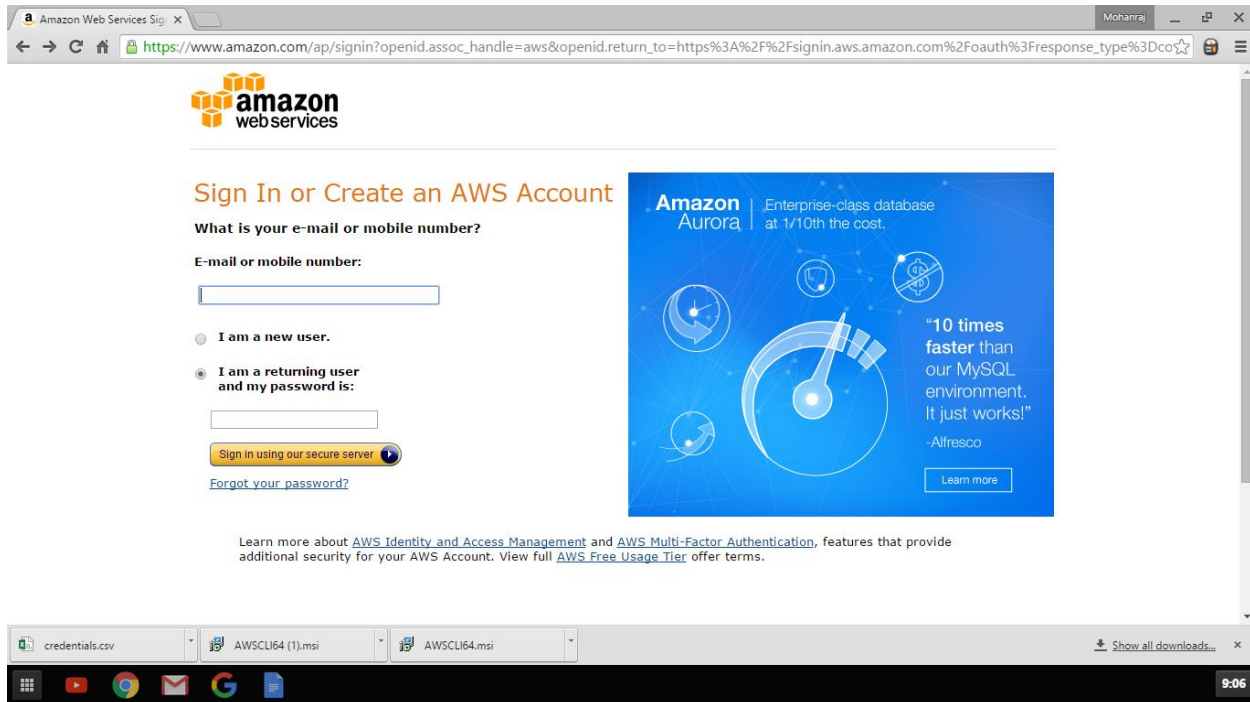


Hands On Lab -1

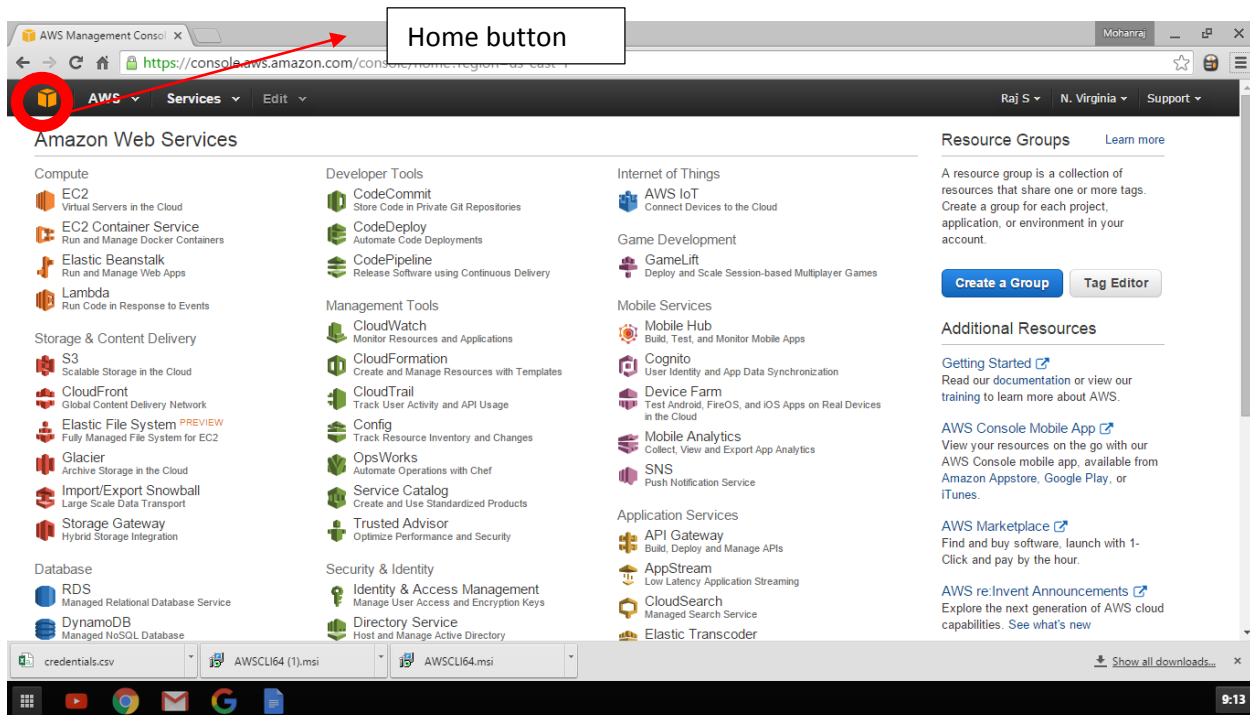
This Lab will provide the various ways of accessing AWS Cloud:

Step 1: Login to the AWS Console

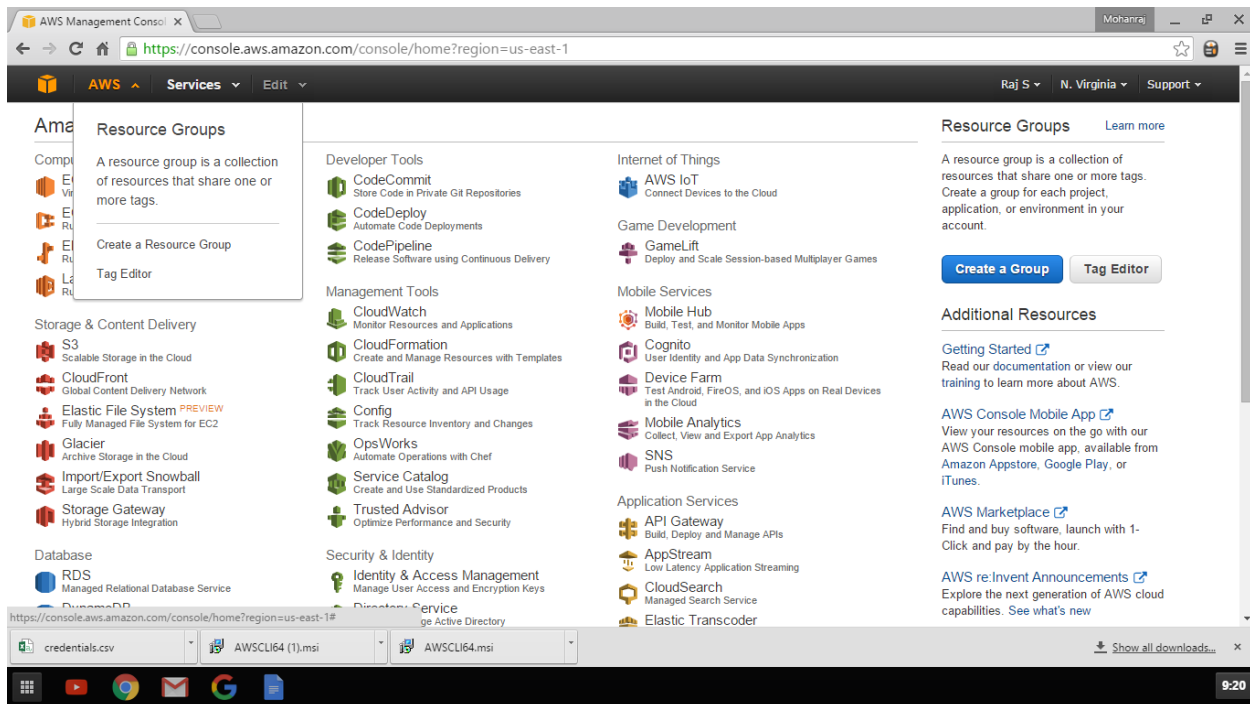
<https://console.aws.com>



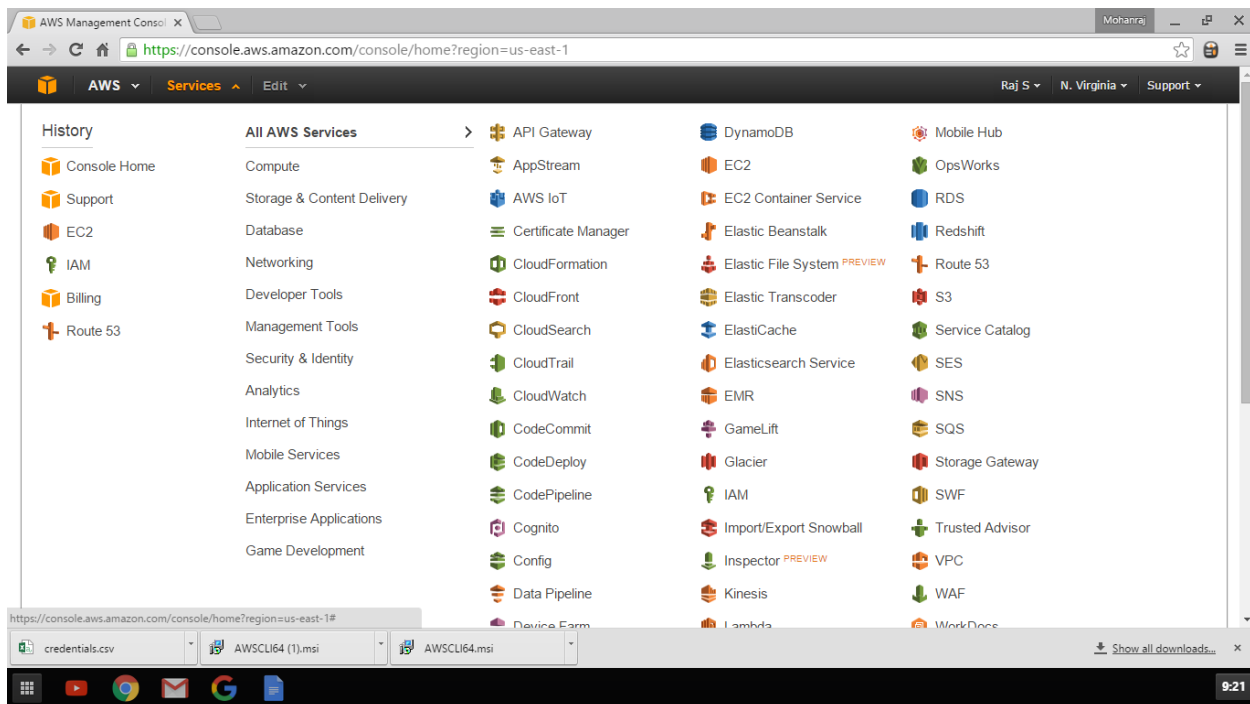
Access Home button to access all Services



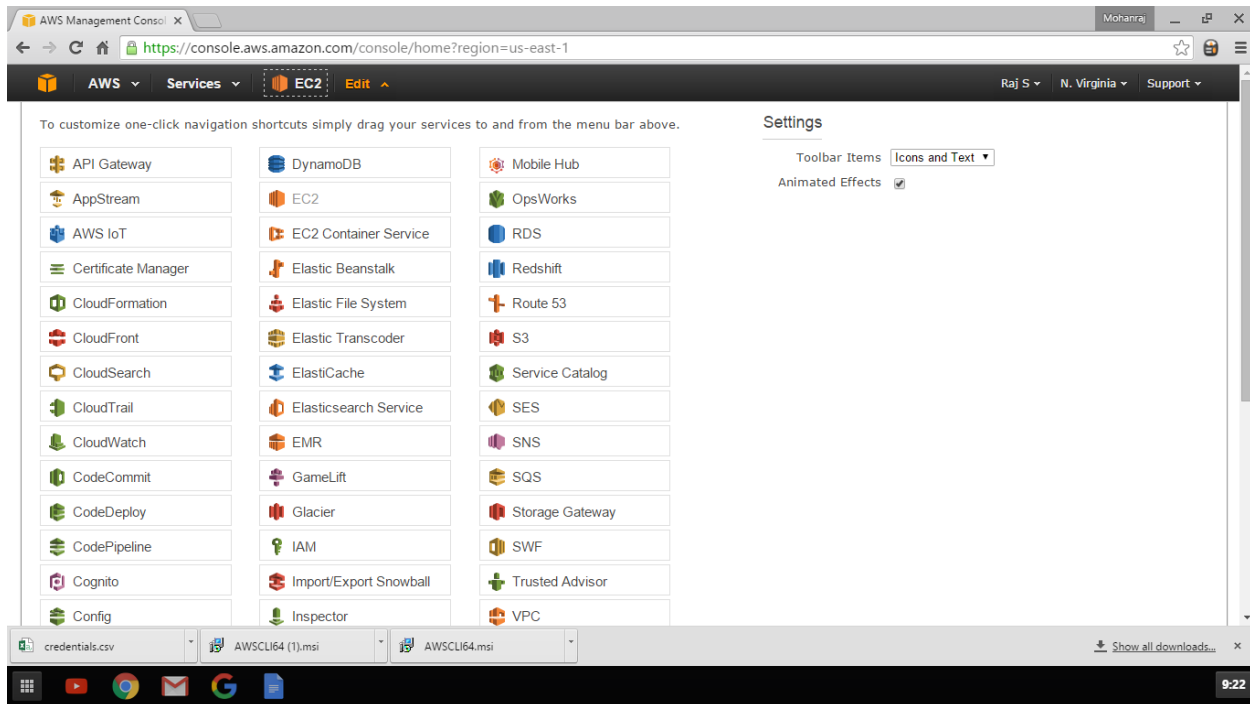
Resource Group will be useful for Grouping the resources we will see this later



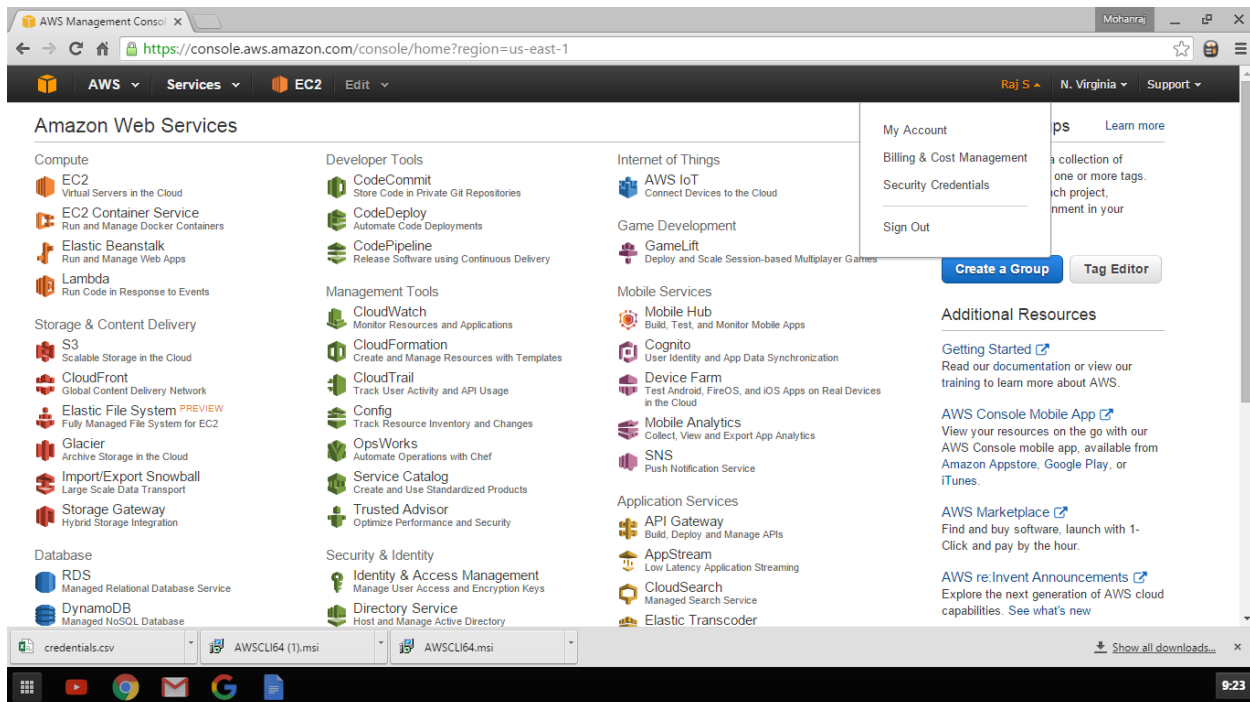
Services Tab list all the Services

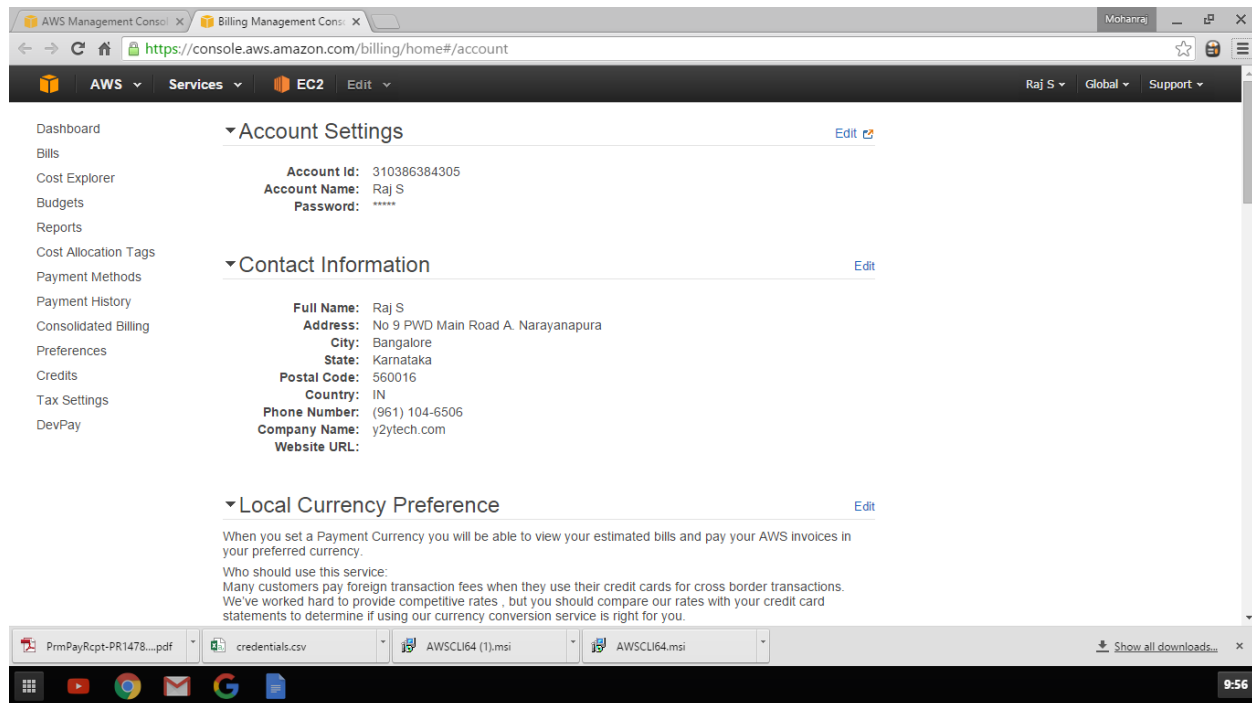


Edit Screen to Drag and Drop services in Top bar for easy access

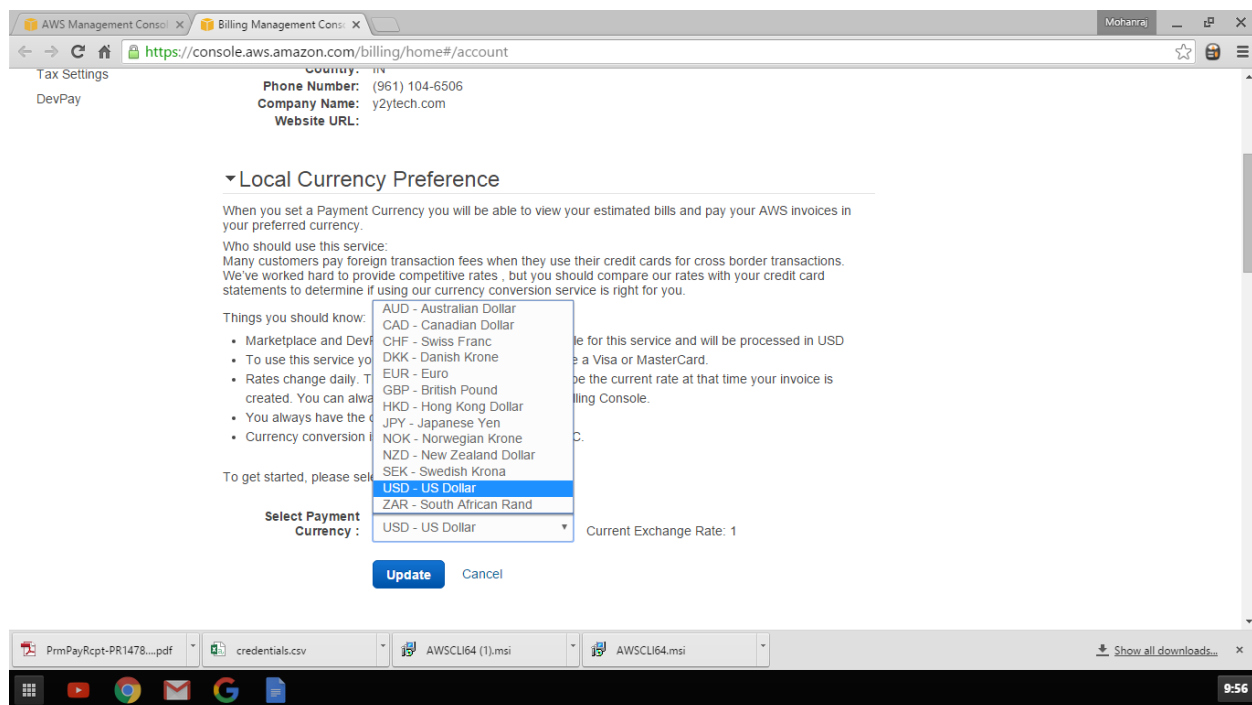


Click on the Name to access your account Click My Account to access your account details

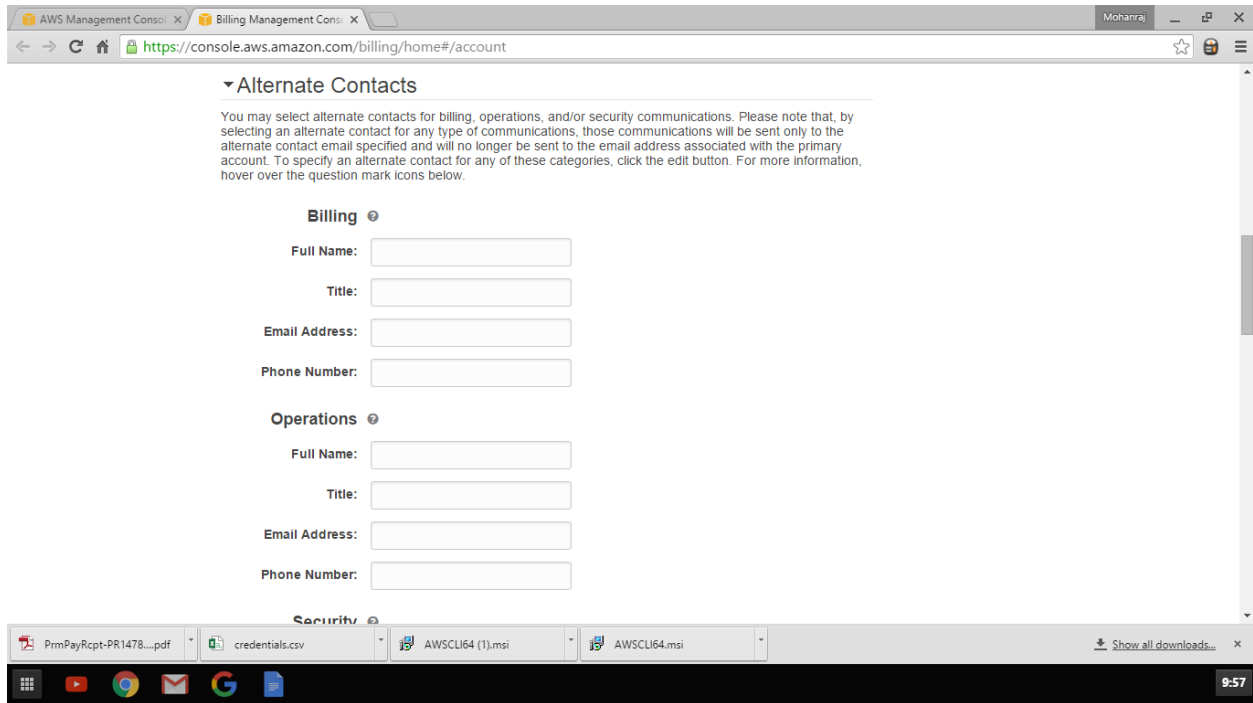




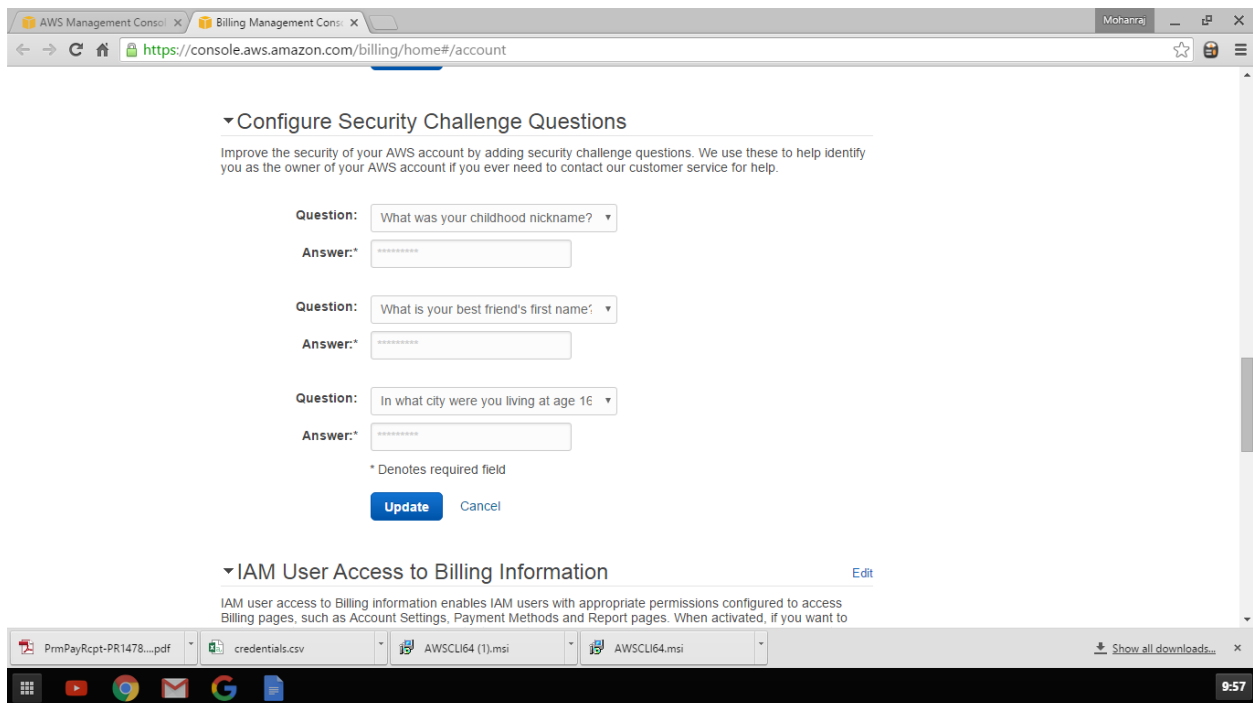
Change Currency to be billed



Alternative Contacts



Setup Security questions



Enable IAM Users to Billing Information

The screenshot shows the AWS Billing Management Console in a web browser. The address bar displays <https://console.aws.amazon.com/billing/home#/account>. The page title is "Billing Management Console". The user's name "Mohanraj" is visible in the top right corner. The main content area is titled "IAM User Access to Billing Information". Below the title, there is a paragraph explaining that IAM user access to Billing Information enables IAM users with appropriate permissions to access Billing pages. Below this, there is a checkbox labeled "Activate IAM Access" which is checked. There are "Update" and "Cancel" buttons. Below this section, there is a section titled "Reserved Instance Marketplace Settings" with a paragraph explaining that the Reserved Instance Marketplace gives you the flexibility to sell the remaining full months on your Reserved Instances. There are links for "Manage Seller and Bank Account Information" and "Manage Tax Settings". Below this, there is a section titled "Communication Preferences" with a paragraph explaining that you can update your business name and bank account information. There are links for "Manage Seller and Bank Account Information" and "Manage Tax Settings". At the bottom of the page, there is a taskbar with several icons and a clock showing 9:59.

Update Cancel

▼ IAM User Access to Billing Information

IAM user access to Billing Information enables IAM users with appropriate permissions configured to access Billing pages, such as Account Settings, Payment Methods and Report pages. When activated, if you want to limit access to billing pages for IAM users that currently have full access permissions configured, you must update their policies to restrict their access. Please see [Controlling Access to Your Billing Information](#) for more details.

☒ **Activate IAM Access**

Update Cancel

▼ Reserved Instance Marketplace Settings

The Reserved Instance Marketplace gives you the flexibility to sell the remaining full months on your Reserved Instances. Manage your Reserved Instance Marketplace disbursement and tax information using options below.

[Manage Seller and Bank Account Information](#)

You can update your business name and bank account information so we can disburse funds to the appropriate location.

[Manage Tax Settings](#)

Change your tax information so that your 1099K or W-88EN is generated appropriately. Setting this information up also allows you to sell more than 200 transactions or \$20,000 in Reserved Instances.

▼ Communication Preferences

PrmPayRcpt-PR1478...pdf credentials.csv AWSCLI64 (1).msi AWSCLI64.msi Show all downloads...

9:59

Cancel Service or close account

The screenshot shows the AWS Billing Management Console in a web browser. The address bar displays <https://console.aws.amazon.com/billing/home#/account>. The page title is "Billing Management Console". The user's name "Mohanraj" is visible in the top right corner. The main content area is titled "Cancel Services". Below the title, there is a paragraph explaining that you can cancel select AWS services, such as AWS Support. Below this, there is a section titled "GovCloud (US)" with a button labeled "Sign up for AWS GovCloud (US)". Below this, there is a section titled "Close Account" with a paragraph explaining that by clicking this checkbox, you are willing to close your AWS account. There is a checkbox labeled "I understand that by clicking this checkbox, I am willing to close my AWS account. Monthly usage of certain AWS services is calculated and billed at the beginning of the following month. If you have used these types of services this month, then at the beginning of next month you will receive a bill for usage that occurred prior to termination of your account. If you own a Reserved Instance for which you have elected to pay in monthly installments, when your account is closed you will continue to be billed your monthly recurring payment until the Reserved Instance is sold on the Reserved Instance Marketplace or it expires." Below this, there is a button labeled "Close Account". At the bottom of the page, there is a taskbar with several icons and a clock showing 10:02.

Click [here](#) to manage your communication preferences.

▼ Cancel Services

Click [here](#) to cancel select AWS services, such as AWS Support.

▼ GovCloud (US)

[Sign up for AWS GovCloud \(US\)](#)

▼ Close Account

☐ I understand that by clicking this checkbox, I am willing to close my AWS account. Monthly usage of certain AWS services is calculated and billed at the beginning of the following month. If you have used these types of services this month, then at the beginning of next month you will receive a bill for usage that occurred prior to termination of your account. If you own a Reserved Instance for which you have elected to pay in monthly installments, when your account is closed you will continue to be billed your monthly recurring payment until the Reserved Instance is sold on the Reserved Instance Marketplace or it expires.

[Close Account](#)

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PrmPayRcpt-PR1478...pdf credentials.csv AWSCLI64 (1).msi AWSCLI64.msi Show all downloads...

10:02

Click Billing and Cost Management for Billing Information

AWS Management Console

https://console.aws.amazon.com/console/home?region=us-east-1

AWS Services EC2 Edit

Raj S N. Virginia Support

Amazon Web Services

- Compute**
 - EC2: Virtual Servers in the Cloud
 - EC2 Container Service: Run and Manage Docker Containers
 - Elastic Beanstalk: Run and Manage Web Apps
 - Lambda: Run Code in Response to Events
- Storage & Content Delivery**
 - S3: Scalable Storage in the Cloud
 - CloudFront: Global Content Delivery Network
 - Elastic File System: Fully Managed File System for EC2
 - Glacier: Archive Storage in the Cloud
 - Import/Export Snowball: Large Scale Data Transport
 - Storage Gateway: Hybrid Storage Integration
- Database**
 - RDS: Managed Relational Database Service
- Developer Tools**
 - CodeCommit: Store Code in Private Git Repositories
 - CodeDeploy: Automate Code Deployments
 - CodePipeline: Release Software using Continuous Delivery
- Management Tools**
 - CloudWatch: Monitor Resources and Applications
 - CloudFormation: Create and Manage Resources with Templates
 - CloudTrail: Track User Activity and API Usage
 - Config: Track Resource Inventory and Changes
 - OpsWorks: Automate Operations with Chef
 - Service Catalog: Create and Use Standardized Products
 - Trusted Advisor: Optimize Performance and Security
- Security & Identity**
 - Identity & Access Management: Manage User Access and Encryption Keys
- Internet of Things**
 - AWS IoT: Connect Devices to the Cloud
- Game Development**
 - GameLift: Deploy and Scale Session-based Multiplayer Games
- Mobile Services**
 - Mobile Hub: Build, Test, and Monitor Mobile Apps
 - Cognito: User Identity and App Data Synchronization
 - Device Farm: Test Android, FireOS, and iOS Apps on Real Devices in the Cloud
 - Mobile Analytics: Collect, View and Export App Analytics
 - SNS: Push Notification Service
- Application Services**
 - API Gateway: Build, Deploy and Manage APIs
 - AppStream: Low Latency Application Streaming
 - CloudSearch: Managed Search Service
 - Elastic Transcoder

My Account

- Billing & Cost Management
- Security Credentials
- Sign Out

Create a Group Tag Editor

Additional Resources

- Getting Started: Read our documentation or view our training to learn more about AWS.
- AWS Console Mobile App: View your resources on the go with our AWS Console mobile app, available from Amazon Appstore, Google Play, or iTunes.
- AWS Marketplace: Find and buy software, launch with 1-Click and pay by the hour.
- AWS re:Invent Announcements: Explore the next generation of AWS cloud capabilities. See what's new

https://console.aws.amazon.com/billing/home?region=us-east-1

PmPayRcpt-PR1478...pdf credentials.csv AWSCLI64 (1).msi AWSCLI64.msi

Show all downloads...

10:05

Billing Management Console

https://console.aws.amazon.com/billing/home?region=us-east-1/#/

AWS Services EC2 Edit

Raj S Global Support

Billing & Cost Management Dashboard

Dashboard

- Bills
- Cost Explorer
- Budgets
- Reports
- Cost Allocation Tags
- Payment Methods
- Payment History
- Consolidated Billing
- Preferences
- Credits
- Tax Settings
- DevPay

Spend Summary

Welcome to the AWS Account Billing console. Your last month, month-to-date, and month-end forecasted costs appear below.

Current month-to-date balance for February 2016

\$0.14

Period	Amount
Last Month (January 2016)	\$1.9
Month-to-Date (February 2016)	\$0.14
Forecast (February 2016)	\$0.33

Month-to-Date Spend by Service

The chart below shows the proportion of costs spent for each service you use.

Service	Amount
EC2	\$0.10
S3	\$0.04
DataTransfer	\$0.00
SNS	\$0.00
QueueService	\$0.00

Month-to-Date Top Services by Spend

Service	Amount
EC2	\$0.10
S3	\$0.04
DataTransfer	\$0.00
SNS	\$0.00
QueueService	\$0.00

https://console.aws.amazon.com/billing/home?region=us-east-1/#/

PmPayRcpt-PR1478...pdf credentials.csv AWSCLI64 (1).msi AWSCLI64.msi

Show all downloads...

10:07

Billing Information

The screenshot shows the AWS Billing Management Console interface. The left sidebar contains a navigation menu with options: Dashboard, Bills (selected), Cost Explorer, Budgets, Reports, Cost Allocation Tags, Payment Methods, Payment History, Consolidated Billing, Preferences, Credits, Tax Settings, and DevPay. The main content area is titled 'Bills' and includes a 'Date' dropdown set to 'February 2016'. There are buttons for 'Download CSV' and 'Print'. Below this is a 'Summary' table showing the total bill amount.

Summary	Amount
AWS Service Charges	\$0.14
Other Details	
Total	\$0.14

Below the summary table is a '+ Expand All' button and a 'Details' table.

Details	Total
AWS Service Charges	\$0.14
▶ Data Transfer	\$0.00
▶ Elastic Compute Cloud	\$0.10
▶ Simple Notification Service	\$0.00
▶ Simple Queue Service	\$0.00
▶ Simple Storage Service	\$0.04
▶ CT to be collected	\$0.00

The bottom of the screen shows a Windows taskbar with several open applications: 'PrmPayRcpt-PR1478...pdf', 'credentials.csv', 'AWSCLI64 (1).msi', and 'AWSCLI64.msi'. The system clock shows 10:09.

Enable Cost explorer

The screenshot shows the AWS Billing Management Console interface for the 'Cost Explorer' page. The left sidebar is the same as the previous screenshot, but 'Cost Explorer' is now selected. The main content area is titled 'Welcome to Cost Explorer' and includes a brief description of the tool. A yellow warning box indicates that spend data is being populated.

⚠ Spend data for your account is being populated
It can take up to 24 hours to populate spend data for your AWS account. Once this data is populated, you will be able to use Cost Explorer and Usage Reports.

Below the warning box is a section titled 'How it works' with three icons and descriptions:

- Use Preconfigured Views**: View cost distribution by service, linked accounts or daily spend over the last three months.
- Analyze Spend**: Explore and analyze your historical spend with Cost Explorer. [Learn more >](#)
- Download or Bookmark**: Download data associated with reports or bookmark your favorite reports. [Learn more >](#)

The bottom of the screen shows the same Windows taskbar as the previous screenshot, but the system clock now shows 10:12.

Create Budget Notification

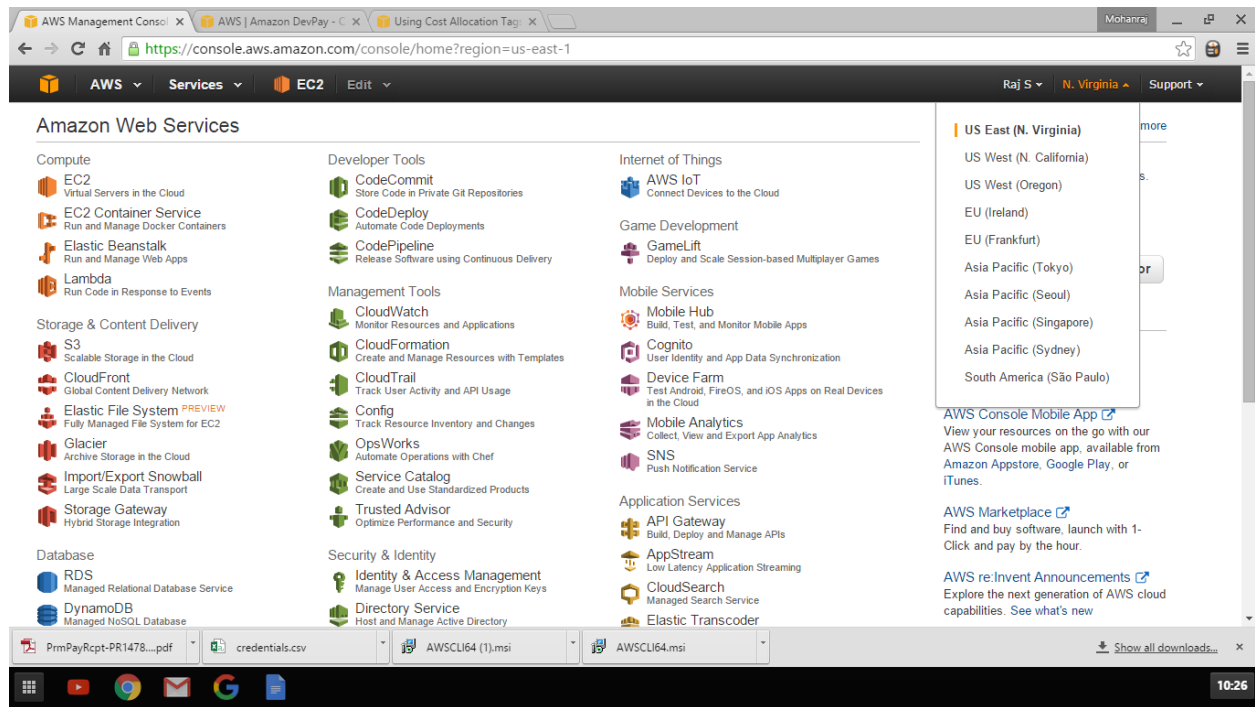
The screenshot shows the AWS Budgets console in Google Chrome. The browser address bar displays <https://console.aws.amazon.com/billing/home?region=us-east-1#/budgets>. The left sidebar contains a navigation menu with options: Dashboard, Bills, Cost Explorer, **Budgets** (highlighted), Reports, Cost Allocation Tags, Payment Methods, Payment History, Consolidated Billing, Preferences, Credits, Tax Settings, and DevPay. The main content area is titled 'Budgets' and includes a description: 'Budgets allow you to define a monthly budget for your AWS costs—whether at an aggregate cost level (i.e., “all costs”) or further refined to include only those costs relating to specific cost dimensions or groups of cost dimensions, including Account, Service, Tag, Availability Zone (“AZ”), Purchase Option (e.g., Reserved), and/or API Operation.' Below this is a 'Create budget' button. A 'How it works' section follows, featuring three icons and their corresponding steps: 1. 'Create a budget' (database icon) with the text 'Budgets can include all, or a subset, of your AWS costs and recur each month during a time range of your choice.' and a 'Learn more' link. 2. 'Attach notifications to budgets' (monitor and envelope icon) with the text 'Notifications allow automated monitoring of budgets by emailing users when current or forecasted costs exceed budgeted costs.' and a 'Learn more' link. 3. 'Monitor budgets' (person and bar chart icon) with the text 'You can monitor your costs—both current and forecasted—relative to your budgets at any time via the Budgets dashboard, which includes detailed budget and variance data.' The bottom of the browser window shows a taskbar with open files like 'PrmPayRcpt-PR1478...pdf' and 'credentials.csv', and a system clock showing 10:14.

Create Usage Reports

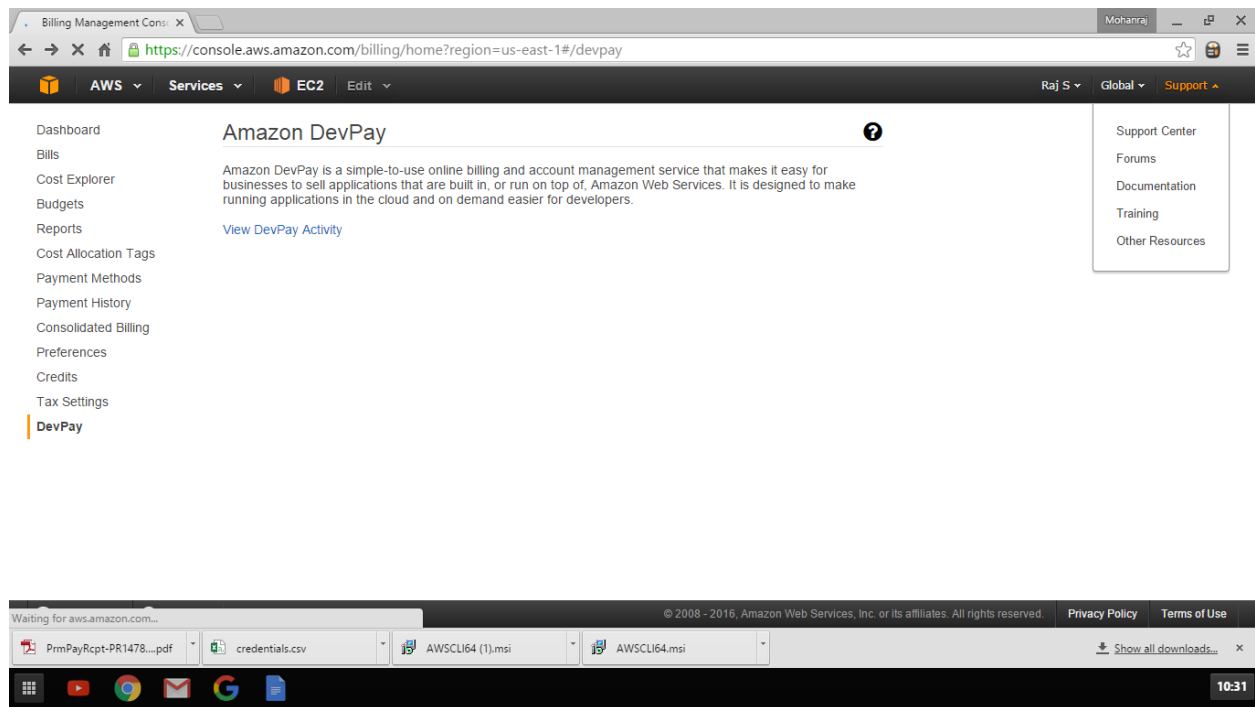
The screenshot shows the AWS Cost and Usage Reports console in Google Chrome. The browser address bar displays <https://console.aws.amazon.com/billing/home?region=us-east-1#/reports>. The left sidebar contains a navigation menu with options: Dashboard, Bills, Cost Explorer, Budgets, **Reports** (highlighted), Cost Allocation Tags, Payment Methods, Payment History, Consolidated Billing, Preferences, Credits, Tax Settings, and DevPay. The main content area is titled 'AWS Cost and Usage Reports' and includes a description: 'AWS Cost and Usage reports provide access to detailed data, enabling you to better analyze and understand your AWS costs as well as the specific product offerings and usage amounts underlying those costs. You can customize the content and delivery of your reports and manage them from the reports dashboard.' Below this is a 'Create report' button. A section titled 'Other Reports' lists three report types: 1. 'EC2 Instance Usage Report' (bar chart icon) described as 'An interactive report that shows usage and cost data for your EC2 instances over a specified period.' with a 'Learn more' link. 2. 'EC2 Reserved Instance Utilization Report' (line graph icon) described as 'An interactive report that shows usage and cost data for your EC2 Reserved instances.' with a 'Learn more' link. 3. 'AWS Usage Report' (document icon) described as 'A CSV report that provides usage data for select AWS services.' The bottom of the browser window shows a taskbar with open files like 'PrmPayRcpt-PR1478...pdf' and 'credentials.csv', and a system clock showing 10:20.

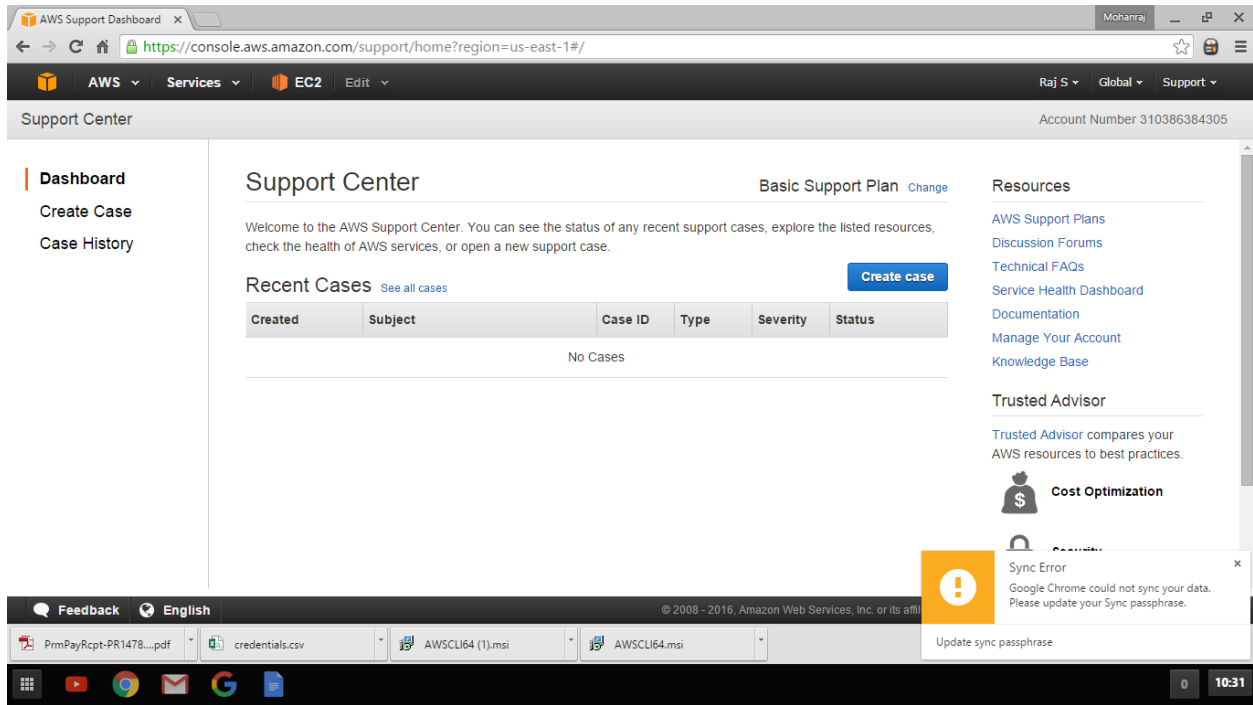
Explore other Payment options

Select Region you want to view or create resources on

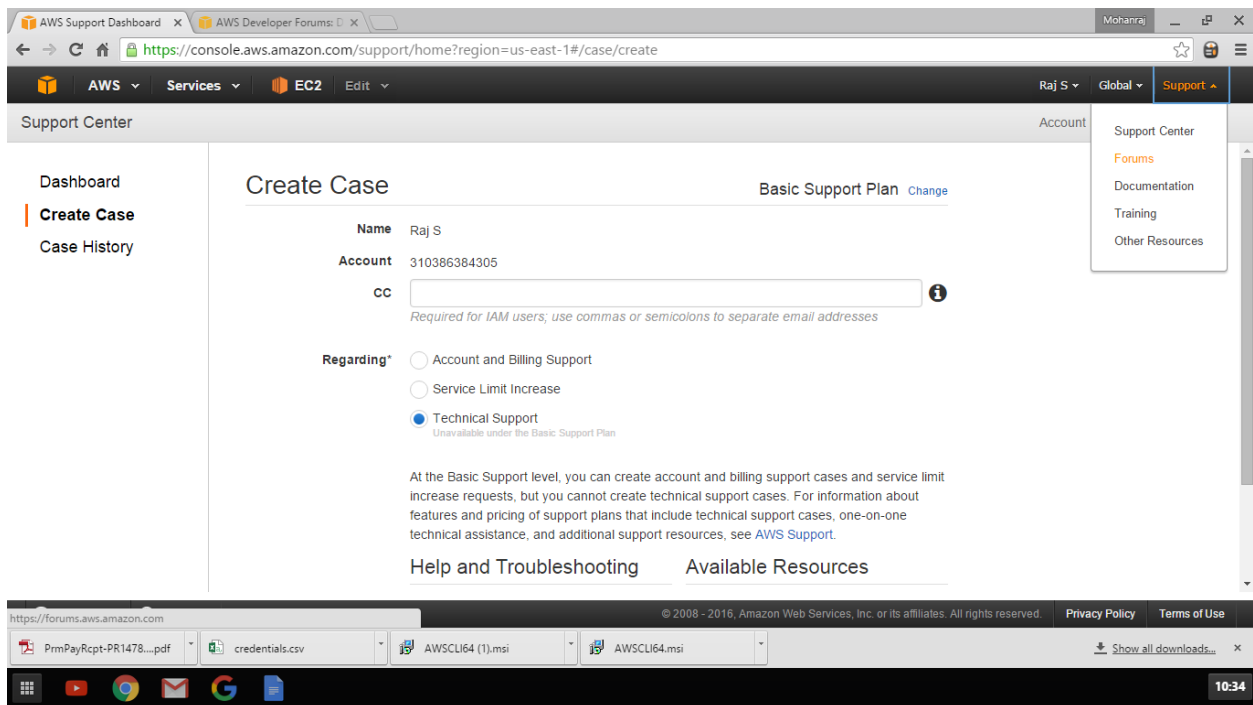


Click Support center to create support ticket to AWS





Click Forum to enter to AWS Services Discussion Forum



Click on Documentation to access AWS Documentation

AWS Support Dashboard x AWS Documentation x Elastic Compute Cloud (EC2) x Mohanraj

https://console.aws.amazon.com/support/home?region=us-east-1#/case/create

AWS Services EC2 Edit

Raj S Global Support

Support Center Account

Dashboard
Create Case
Case History

Create Case

Basic Support Plan [Change](#)

Name Raj S

Account 310386384305

CC ⓘ
Required for IAM users; use commas or semicolons to separate email addresses

Regarding*

☐ Account and Billing Support

☐ Service Limit Increase

☒ Technical Support
Unavailable under the Basic Support Plan

At the Basic Support level, you can create account and billing support cases and service limit increase requests, but you cannot create technical support cases. For information about features and pricing of support plans that include technical support cases, one-on-one technical assistance, and additional support resources, see [AWS Support](#).

[Help and Troubleshooting](#) [Available Resources](#)

Support Center
Forums
Documentation
Training
Other Resources

https://aws.amazon.com/documentation/ © 2008 - 2016, Amazon Web Services, Inc. or its affiliates. All rights reserved. [Privacy Policy](#) [Terms of Use](#)

PmPayRcpt-PR1478...pdf credentials.csv AWSCLI64 (1).msi AWSCLI64.msi Show all downloads...

10:38

Accessing AWS using Command Line:

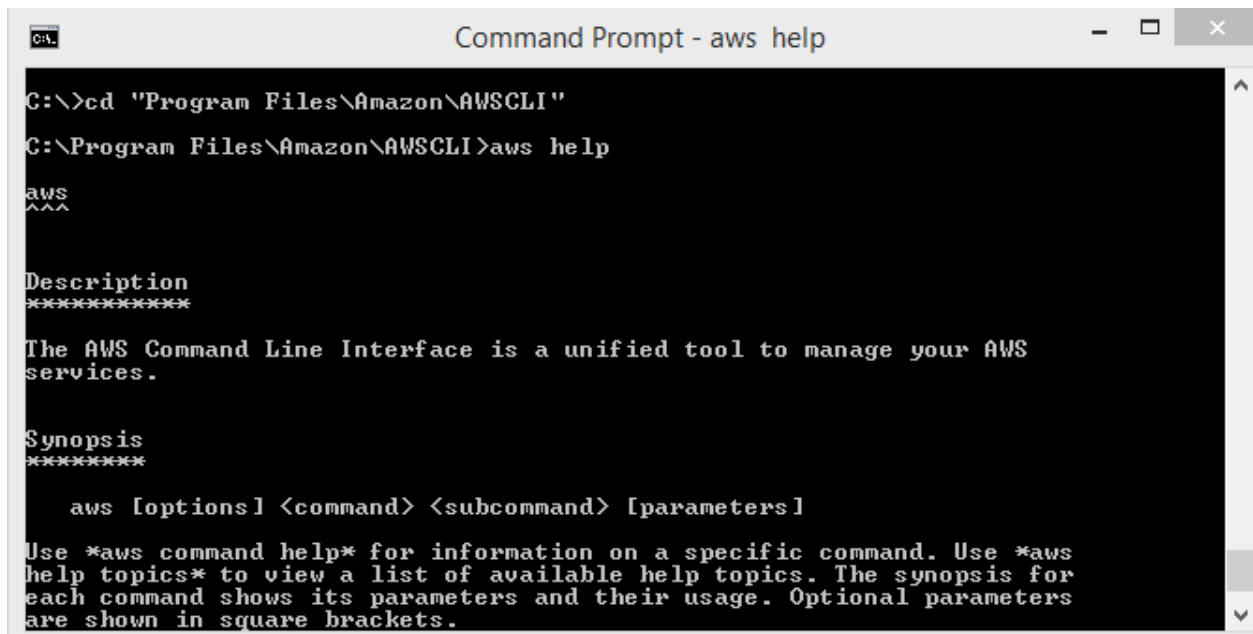
Step 1: Download the AWS CLI MSI package and install for Windows for below URL

<https://aws.amazon.com/cli/>

Or in MAC or Linux use

```
pip install awscli
```

Once Installed follow below to validate it installed properly



```
Command Prompt - aws help

C:\>cd "Program Files\Amazon\AWSCLI"
C:\Program Files\Amazon\AWSCLI>aws help

aws
^^^

Description
*****

The AWS Command Line Interface is a unified tool to manage your AWS
services.

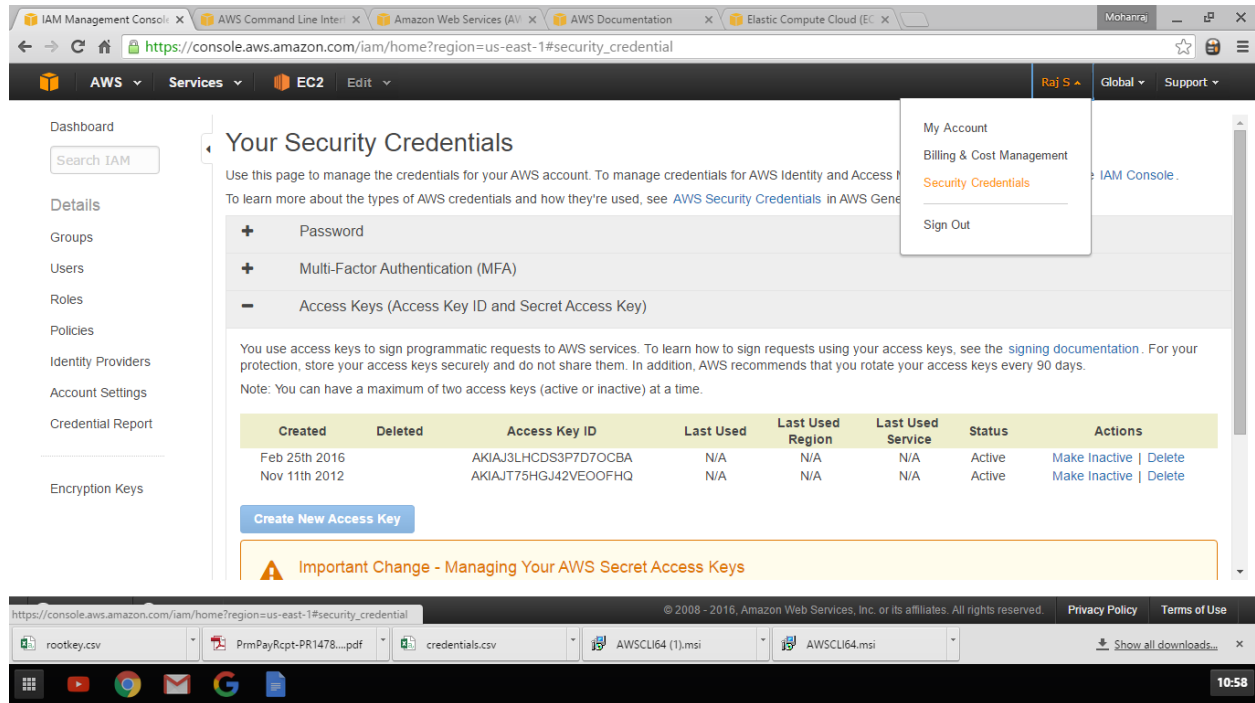
Synopsis
*****

    aws [options] <command> <subcommand> [parameters]

Use *aws command help* for information on a specific command. Use *aws
help topics* to view a list of available help topics. The synopsis for
each command shows its parameters and their usage. Optional parameters
are shown in square brackets.
```

Create AWS Access keys

Step 1: Click your account -> Security Credentials



Create New Access Key in Access Key Tab

This will download the rootkey.csv file

This will contain Access Key id and Secret Key

Configure AWS

C:\Program Files\Amazon\AWSCLI>**aws configure**

AWS Access Key ID [*****PSWQ]: < Enter your access Key>

AWS Secret Access Key [*****4tyf]: <Enter Secret ID>

Default region name [us-west-2]: <Enter Default Region>

Default output format [text]: < Enter Text or json Format >

Getting Help

```
$ aws help
```

The following command lists the available subcommands for Amazon EC2.

```
$ aws ec2 help
```

The next example lists the detailed help for the EC2 `DescribeInstances` operation, including descriptions of its input parameters, filters, and output. Check the examples section of the help if you are not sure how to phrase a command.

```
$ aws ec2 describe-instances help
```

Command Structure

```
$ aws <command> <subcommand> [options and parameters]
```

Test it is working by creating a key pair

```
$ aws ec2 create-key-pair --key-name my-key-pair
```

End of Hands on Lab -1