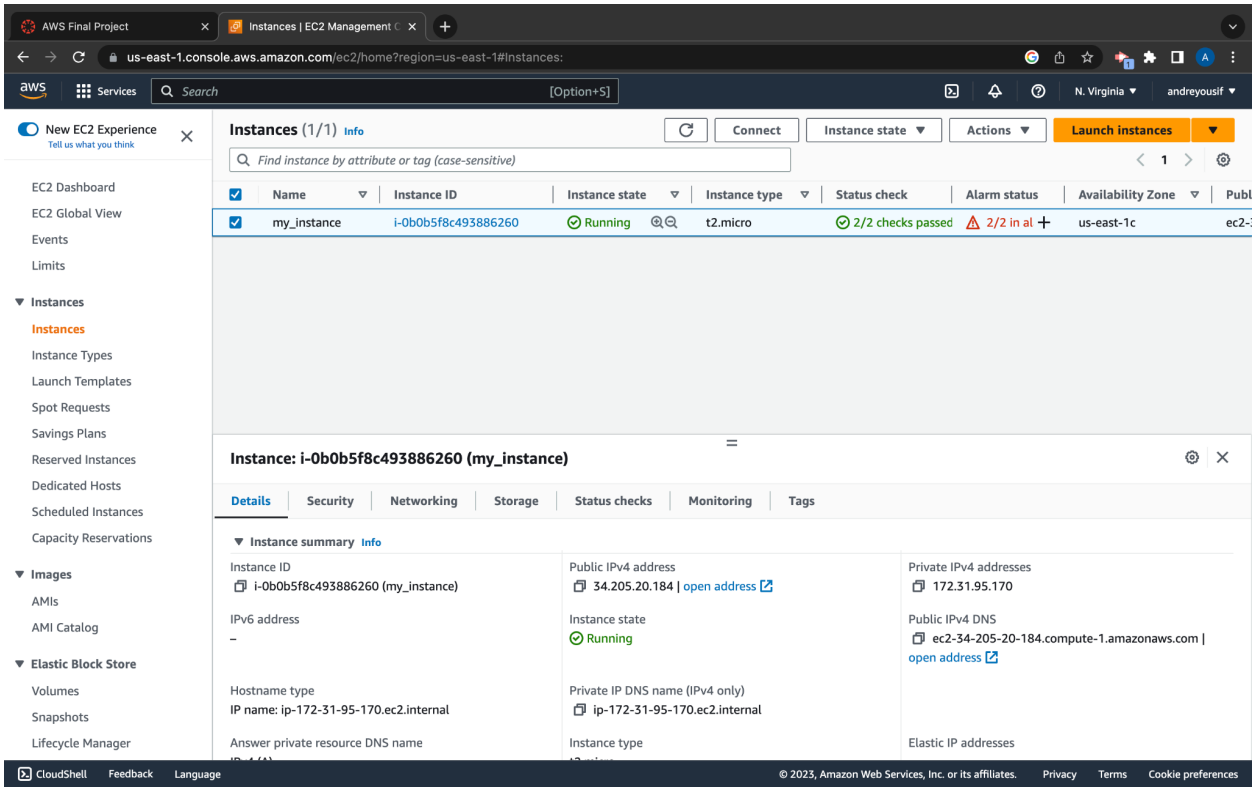
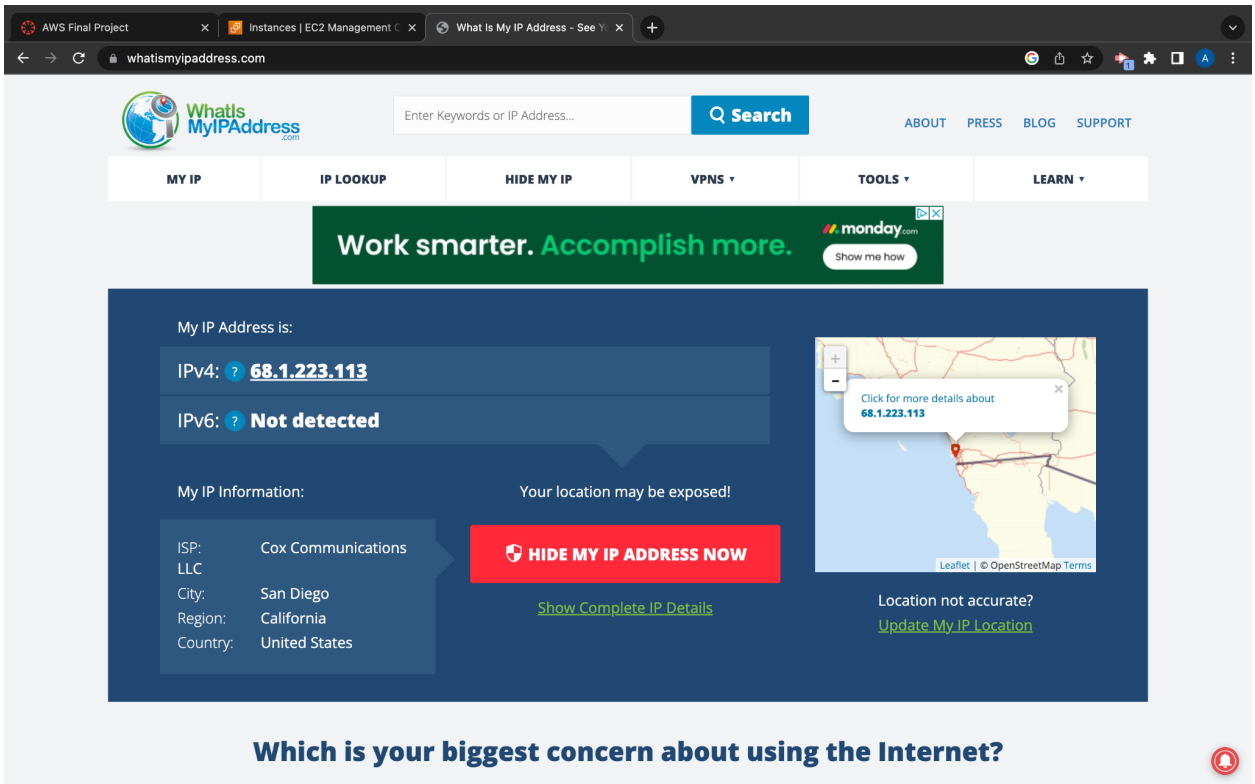
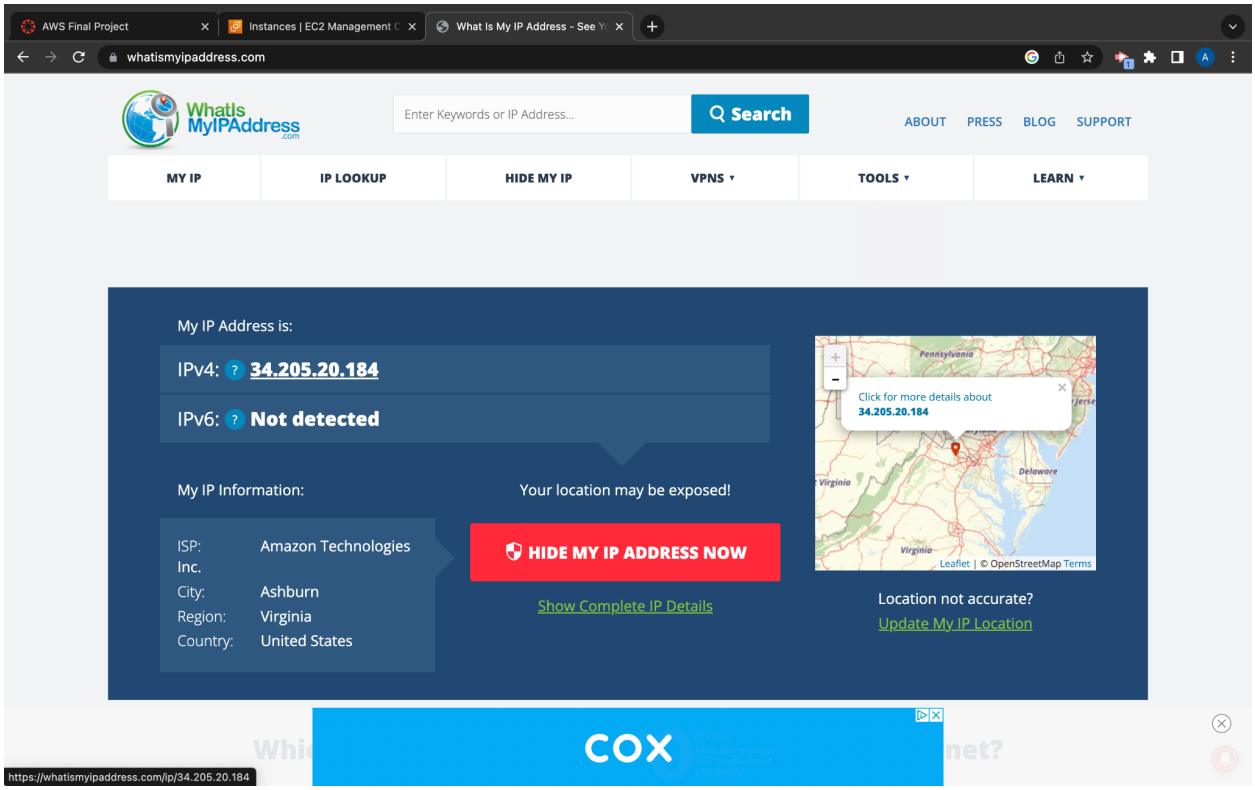
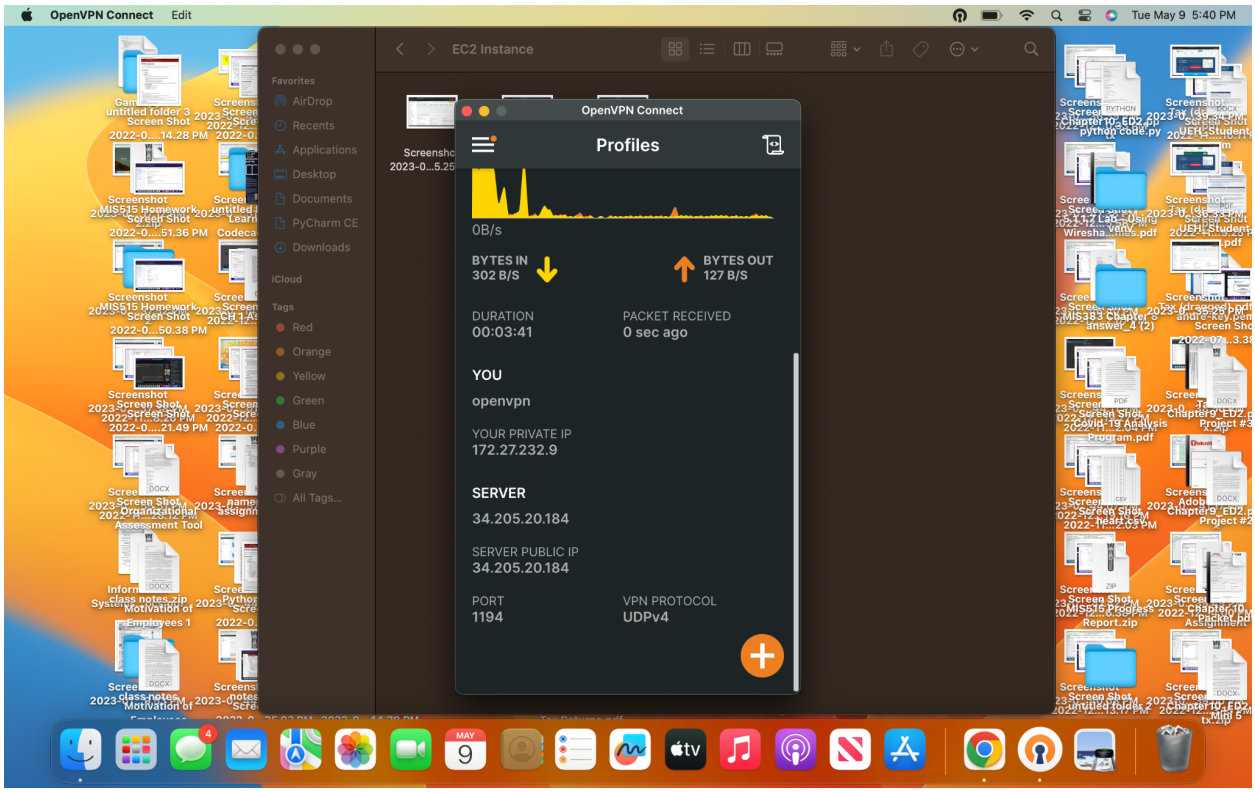
Launching an EC2 instance for OpenVPN - IP before and after connecting to VPN

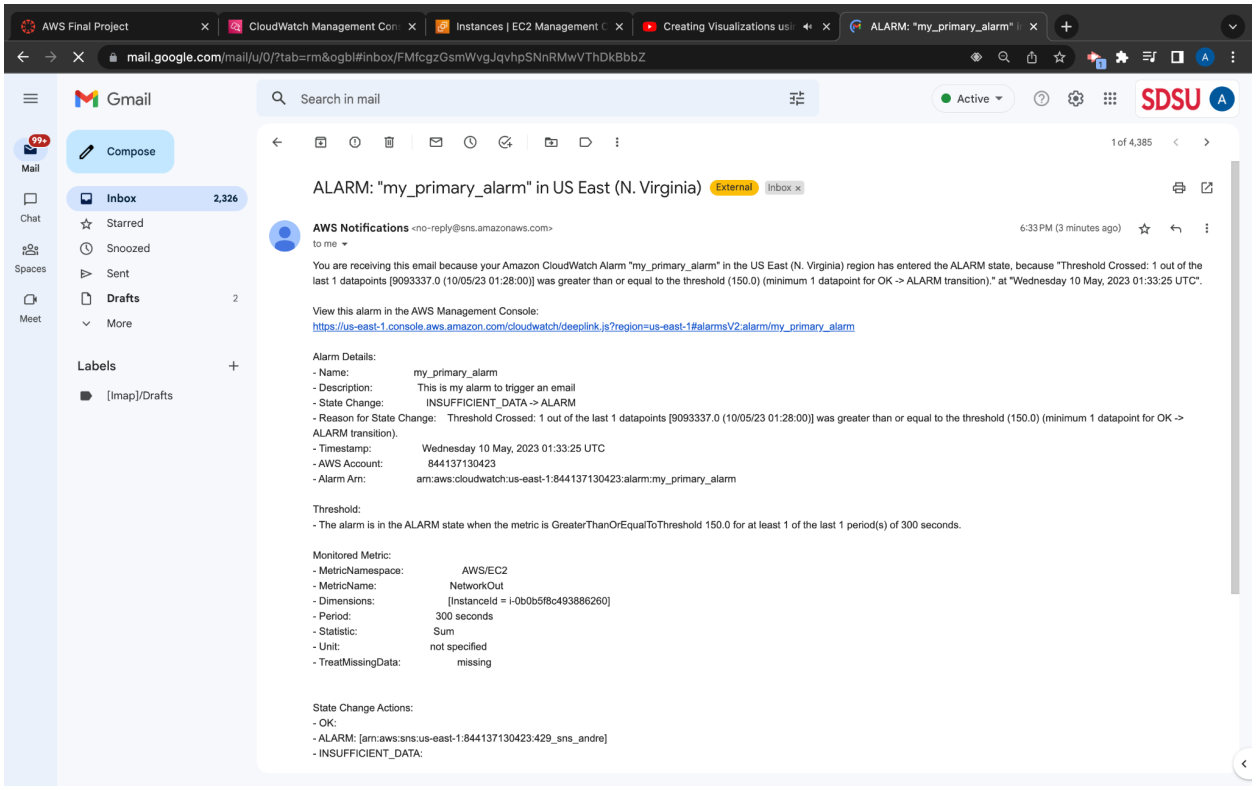


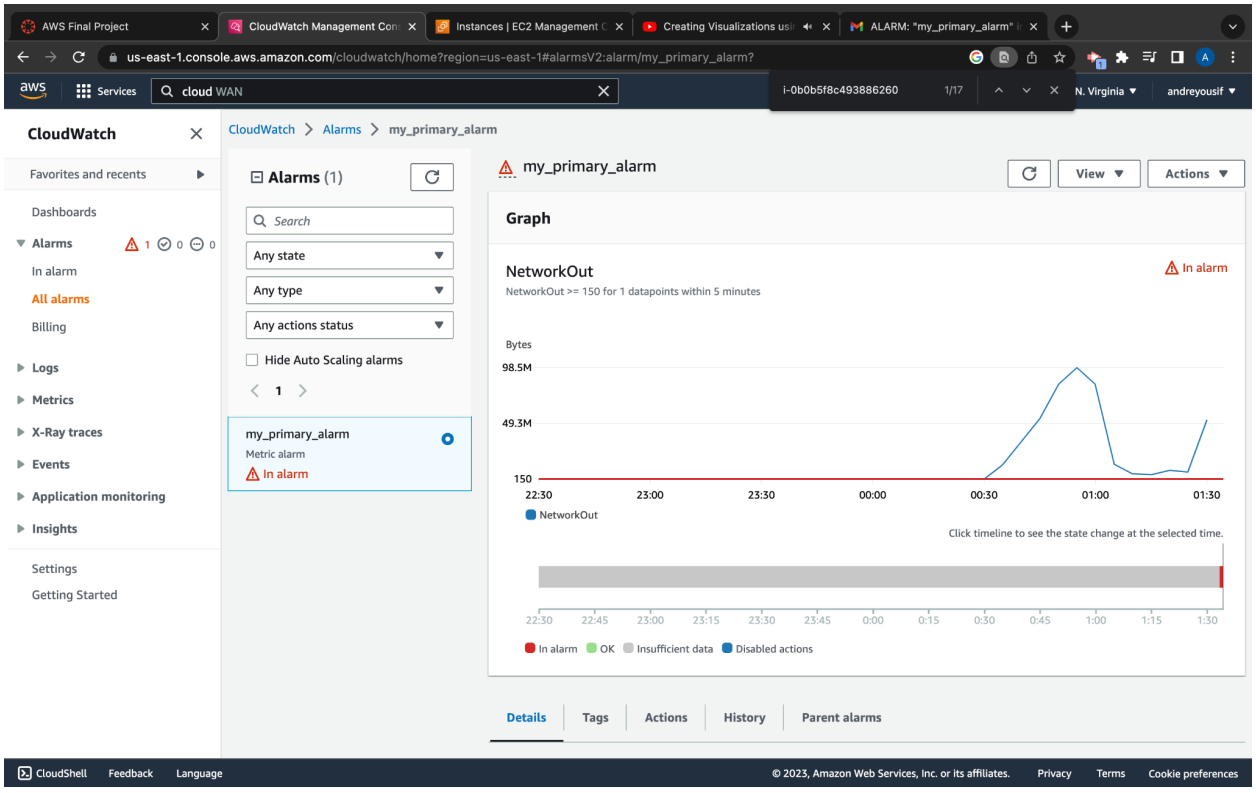


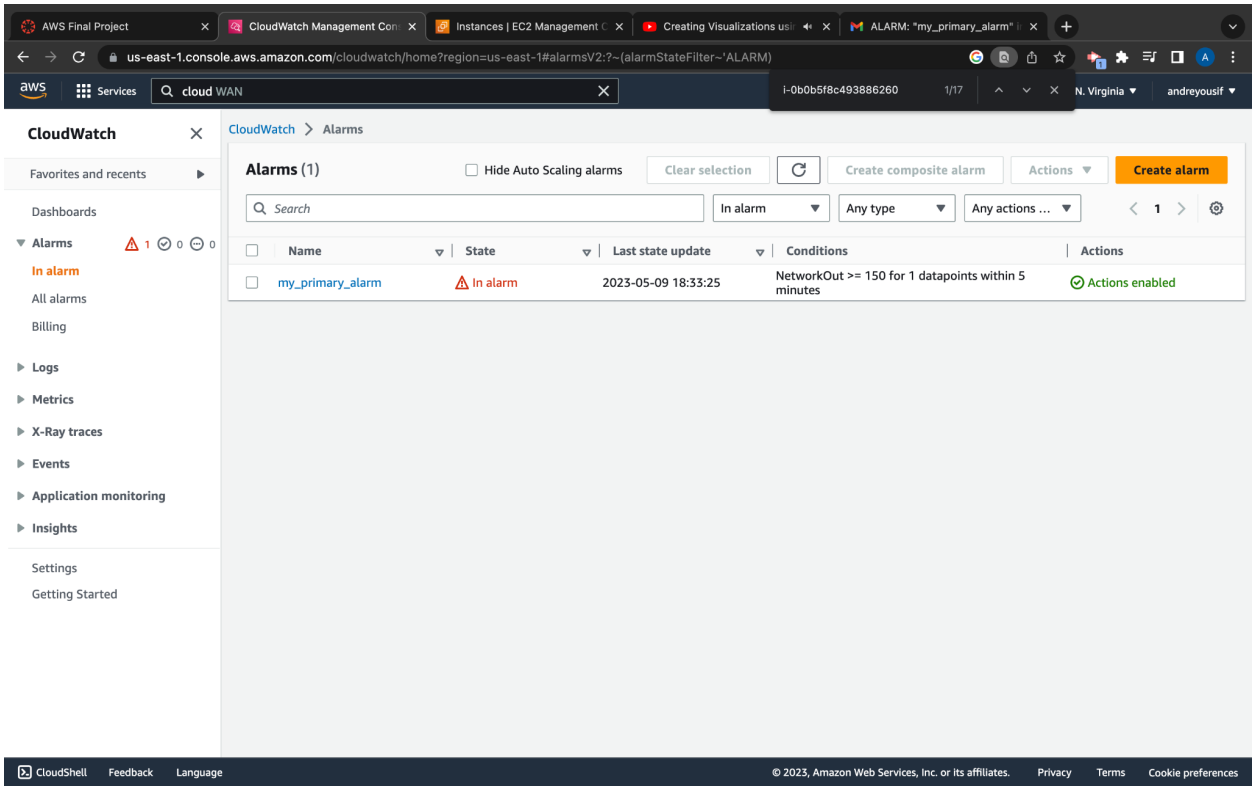




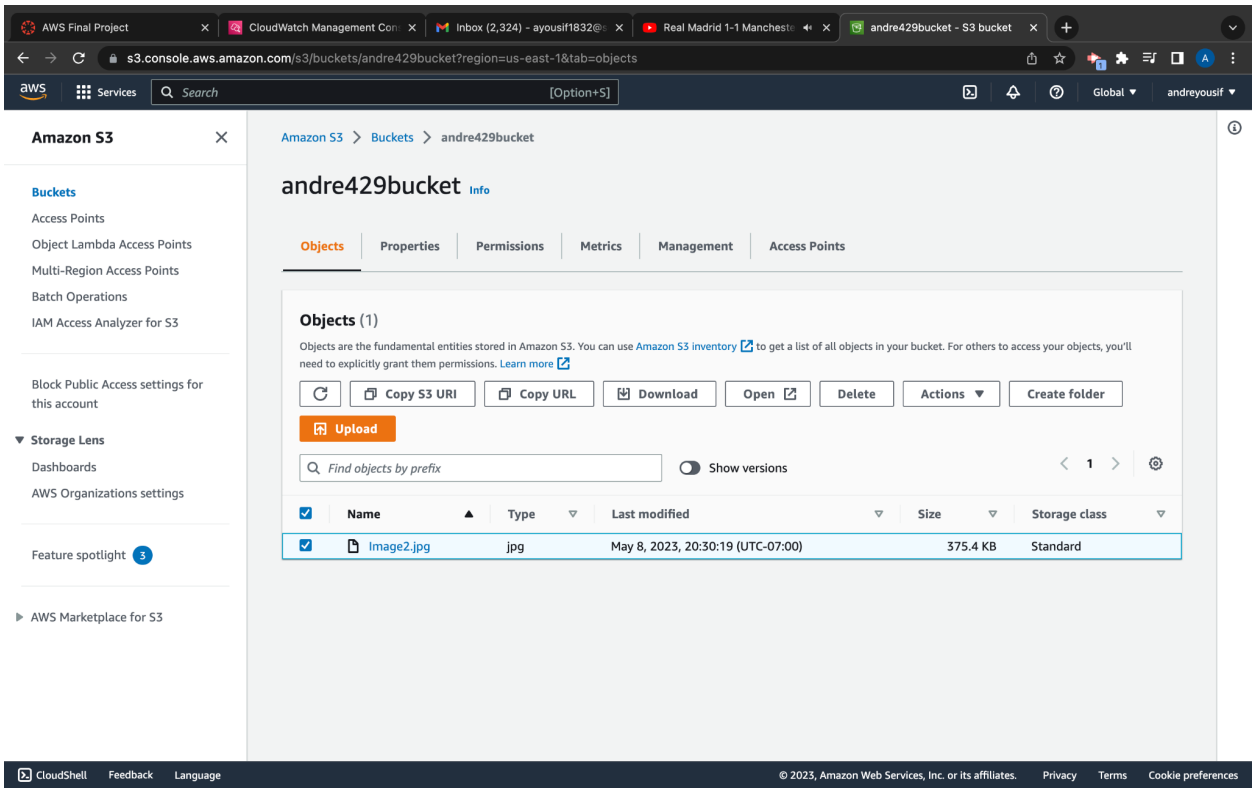
Setting up monitoring for traffic on the instance - CloudWatch Alarms and Simple Notification Service (SNS).

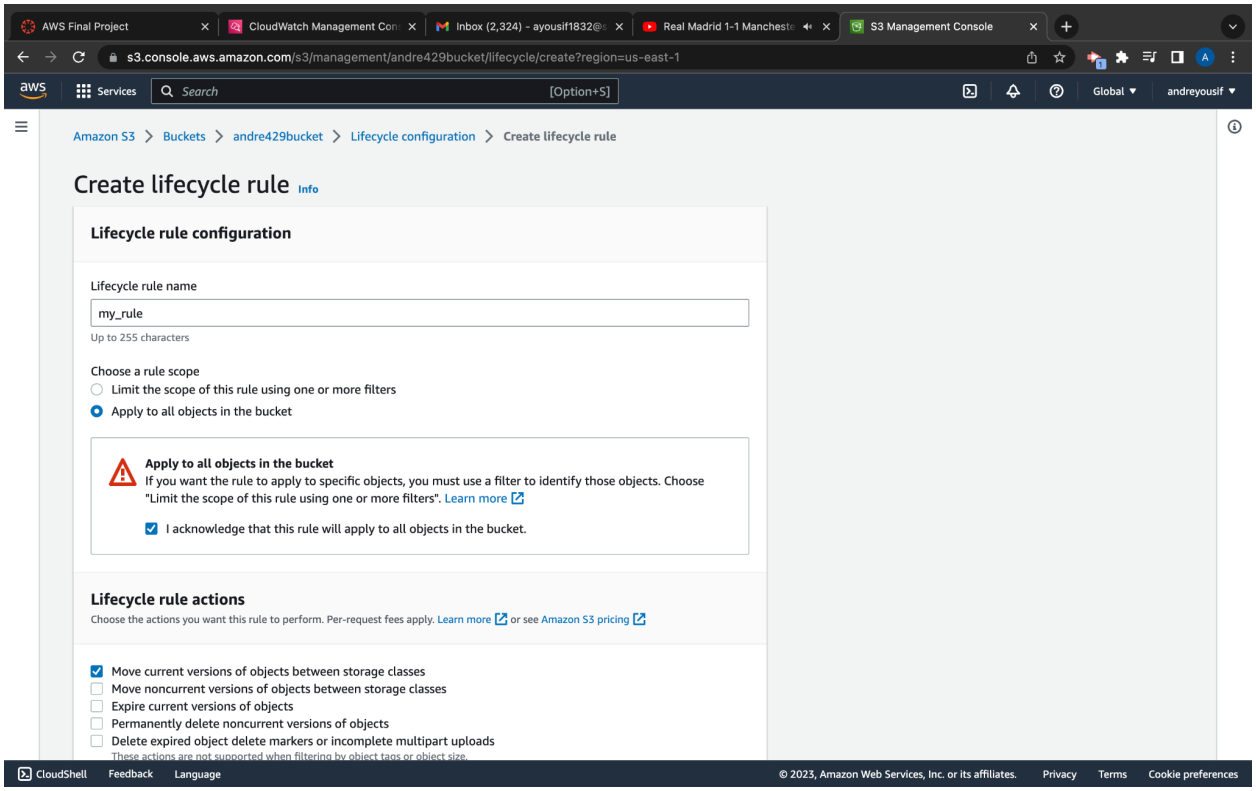

AWS Final Project
CloudWatch Management Con
Instances | EC2 Management
Creating Visualizations usi
ALARM: "my_primary_alarm"
mail.google.com/mail/u/0/?tab=rm&ogbl#inbox/FMfcgzGsmWvgJqvhpSNnRMwVThDkBbbZ
Gmail
Search in mail
Active
SDSU
Compose
Inbox 2,326
Starred
Snoozed
Sent
Drafts 2
More
Labels
[Imap]/Drafts
1 of 4,385
ALARM: "my_primary_alarm" in US East (N. Virginia)
External
Inbox
AWS Notifications <no-reply@sns.amazonaws.com>
to me
6:33 PM (3 minutes ago)
You are receiving this email because your Amazon CloudWatch Alarm "my_primary_alarm" in the US East (N. Virginia) region has entered the ALARM state, because "Threshold Crossed: 1 out of the last 1 datapoints [9093337.0 (10/05/23 01:28:00)] was greater than or equal to the threshold (150.0) (minimum 1 datapoint for OK -> ALARM transition)." at "Wednesday 10 May, 2023 01:33:25 UTC".
View this alarm in the AWS Management Console:
https://us-east-1.console.aws.amazon.com/cloudwatch/deeplink.js?region=us-east-1#alarmsV2:alarm/my_primary_alarm
Alarm Details:
- Name: my_primary_alarm
- Description: This is my alarm to trigger an email
- State Change: INSUFFICIENT_DATA -> ALARM
- Reason for State Change: Threshold Crossed: 1 out of the last 1 datapoints [9093337.0 (10/05/23 01:28:00)] was greater than or equal to the threshold (150.0) (minimum 1 datapoint for OK -> ALARM transition).
- Timestamp: Wednesday 10 May, 2023 01:33:25 UTC
- AWS Account: 844137130423
- Alarm Arn: arn:aws:cloudwatch:us-east-1:844137130423:alarm:my_primary_alarm
Threshold:
- The alarm is in the ALARM state when the metric is GreaterThanOrEqualToThreshold 150.0 for at least 1 of the last 1 period(s) of 300 seconds.
Monitored Metric:
- MetricNamespace: AWS/EC2
- MetricName: NetworkOut
- Dimensions: [InstanceId = i-0b0b5f8c493886260]
- Period: 300 seconds
- Statistic: Sum
- Unit: not specified
- TreatMissingData: missing
State Change Actions:
- OK:
- ALARM: [arn:aws:sns:us-east-1:844137130423:429_sns_andre]
- INSUFFICIENT_DATA:

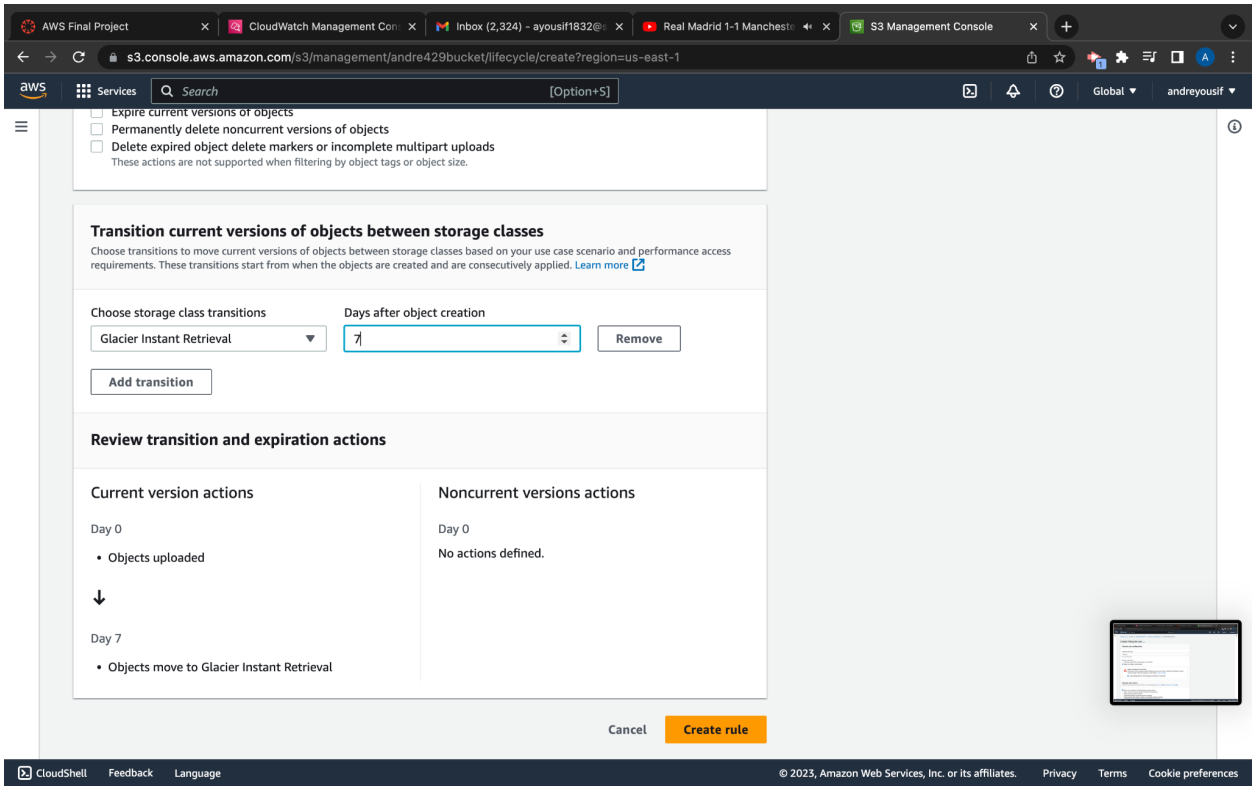

AWS Final Project
CloudWatch Management Con
Instances | EC2 Management
Creating Visualizations usi
ALARM: "my_primary_alarm"
us-east-1.console.aws.amazon.com/cloudwatch/home?region=us-east-1#alarmsV2:alarm/my_primary_alarm?
aws
Services
cloud WAN
i-0b0b5f8c493886260
1/17
N. Virginia
andreyousif
CloudWatch
Favorites and recents
Dashboards
Alarms 1 0 0
In alarm
All alarms
Billing
Logs
Metrics
X-Ray traces
Events
Application monitoring
Insights
Settings
Getting Started
CloudWatch > Alarms > my_primary_alarm
Alarms (1)
Search
Any state
Any type
Any actions status
Hide Auto Scaling alarms
1
my_primary_alarm
Metric alarm
In alarm
my_primary_alarm
View
Actions
Graph
NetworkOut
NetworkOut >= 150 for 1 datapoints within 5 minutes
In alarm
Bytes
98.5M
49.3M
150
22:30
23:00
23:30
00:00
00:30
01:00
01:30
NetworkOut
Click timeline to see the state change at the selected time.
22:30
22:45
23:00
23:15
23:30
23:45
0:00
0:15
0:30
0:45
1:00
1:15
1:30
In alarm
OK
Insufficient data
Disabled actions
Details
Tags
Actions
History
Parent alarms
CloudShell
Feedback
Language
© 2023, Amazon Web Services, Inc. or its affiliates.
Privacy
Terms
Cookie preferences

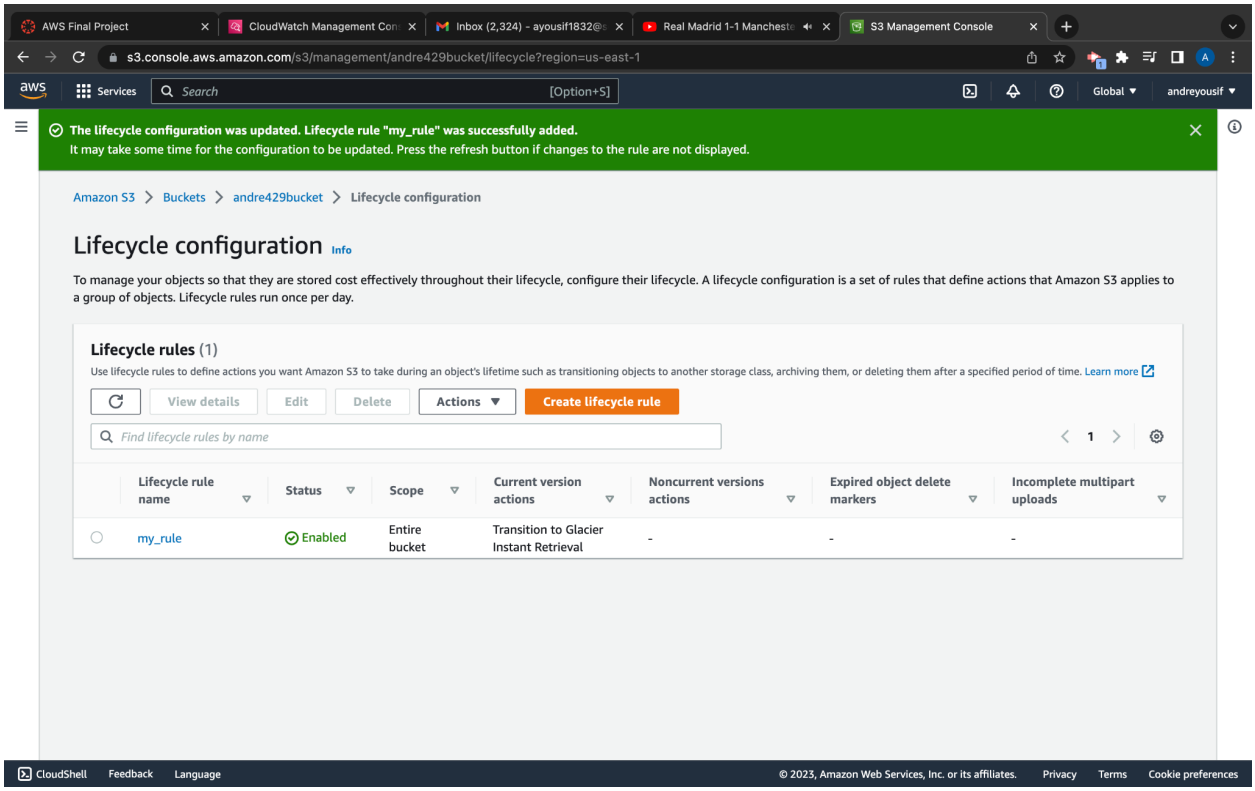

AWS Final Project
CloudWatch Management Con
Instances | EC2 Management
Creating Visualizations usi
ALARM: "my_primary_alarm"
us-east-1.console.aws.amazon.com/cloudwatch/home?region=us-east-1#alarmsV2:?~(alarmStateFilter~'ALARM)
aws
Services
cloud WAN
i-0b0b5f8c493886260
1/17
N. Virginia
andreyousif
CloudWatch
Favorites and recents
Dashboards
Alarms
1
0
0
In alarm
All alarms
Billing
Logs
Metrics
X-Ray traces
Events
Application monitoring
Insights
Settings
Getting Started
CloudWatch > Alarms
Alarms (1)
Hide Auto Scaling alarms
Clear selection
Create composite alarm
Actions
Create alarm
Search
In alarm
Any type
Any actions ...
1
Name
State
Last state update
Conditions
Actions
my_primary_alarm
In alarm
2023-05-09 18:33:25
NetworkOut >= 150 for 1 datapoints within 5 minutes
Actions enabled
CloudShell
Feedback
Language
© 2023, Amazon Web Services, Inc. or its affiliates.
Privacy
Terms
Cookie preferences

Configuring S3 storage to hold backups

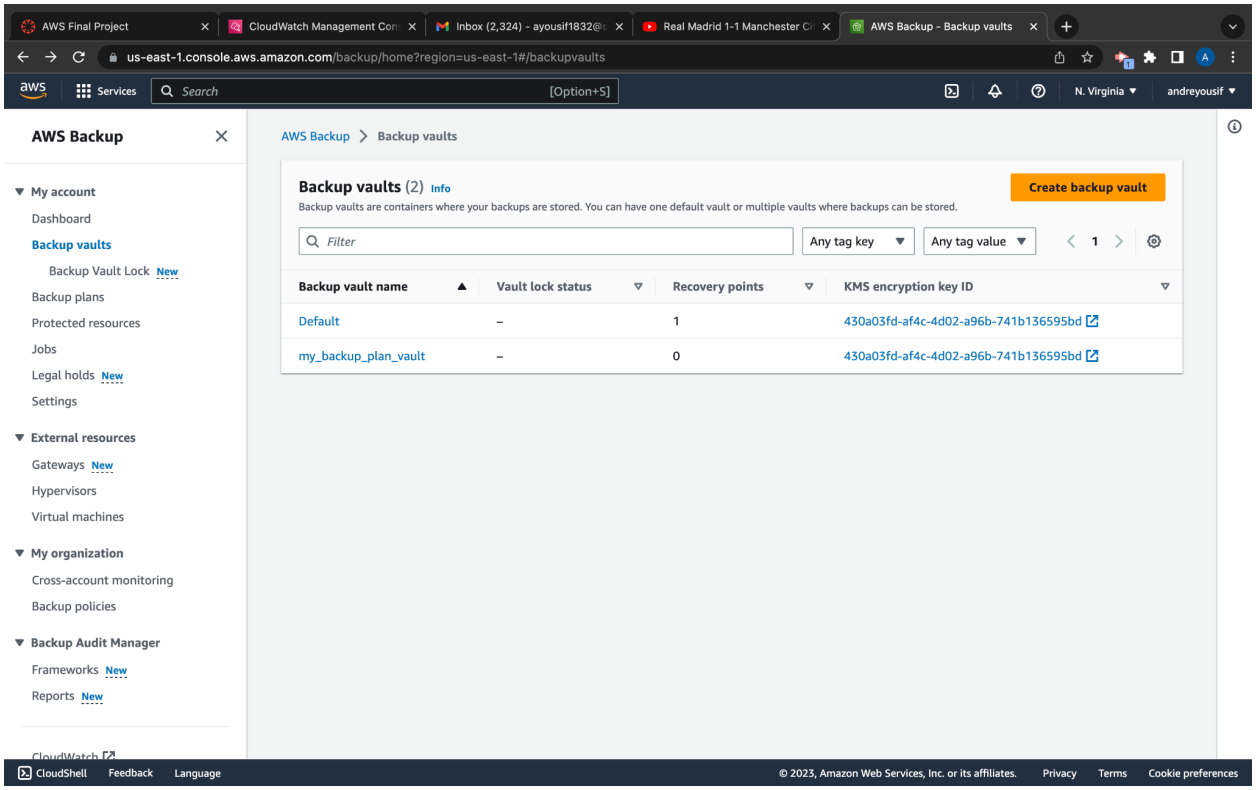


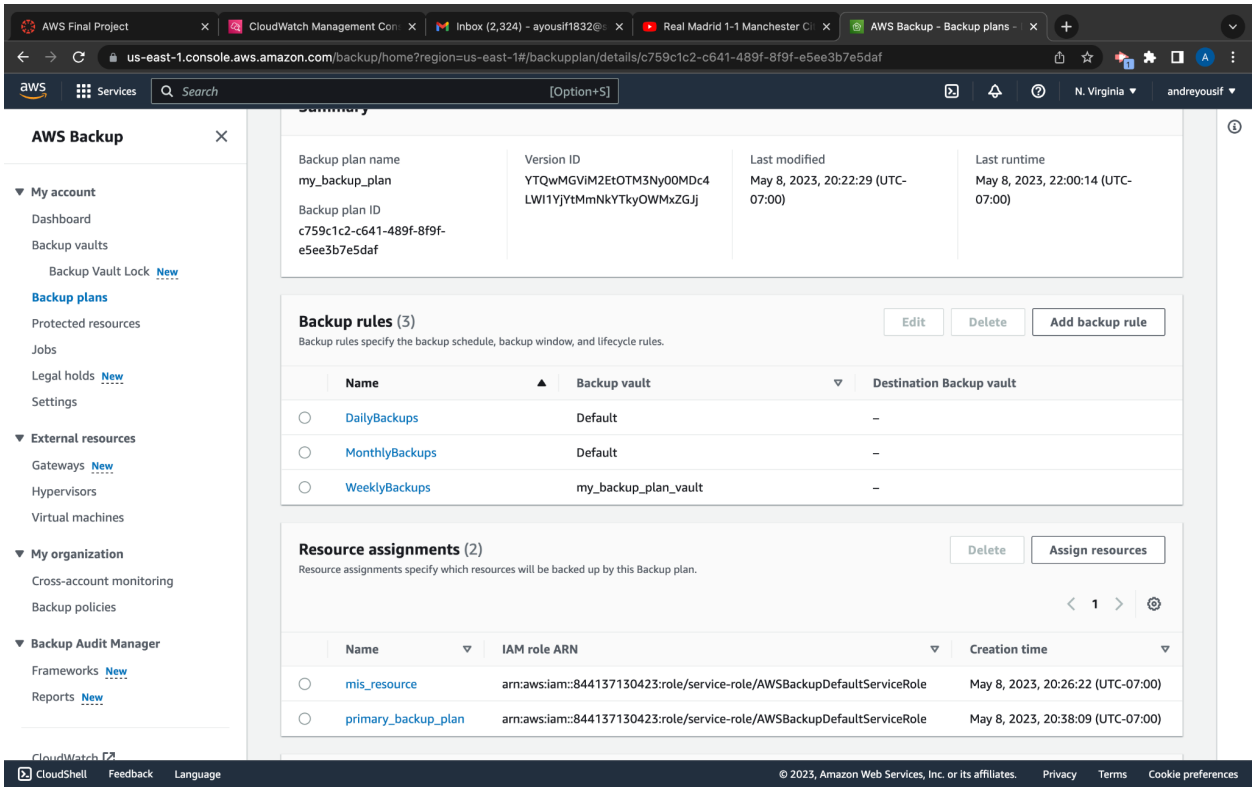




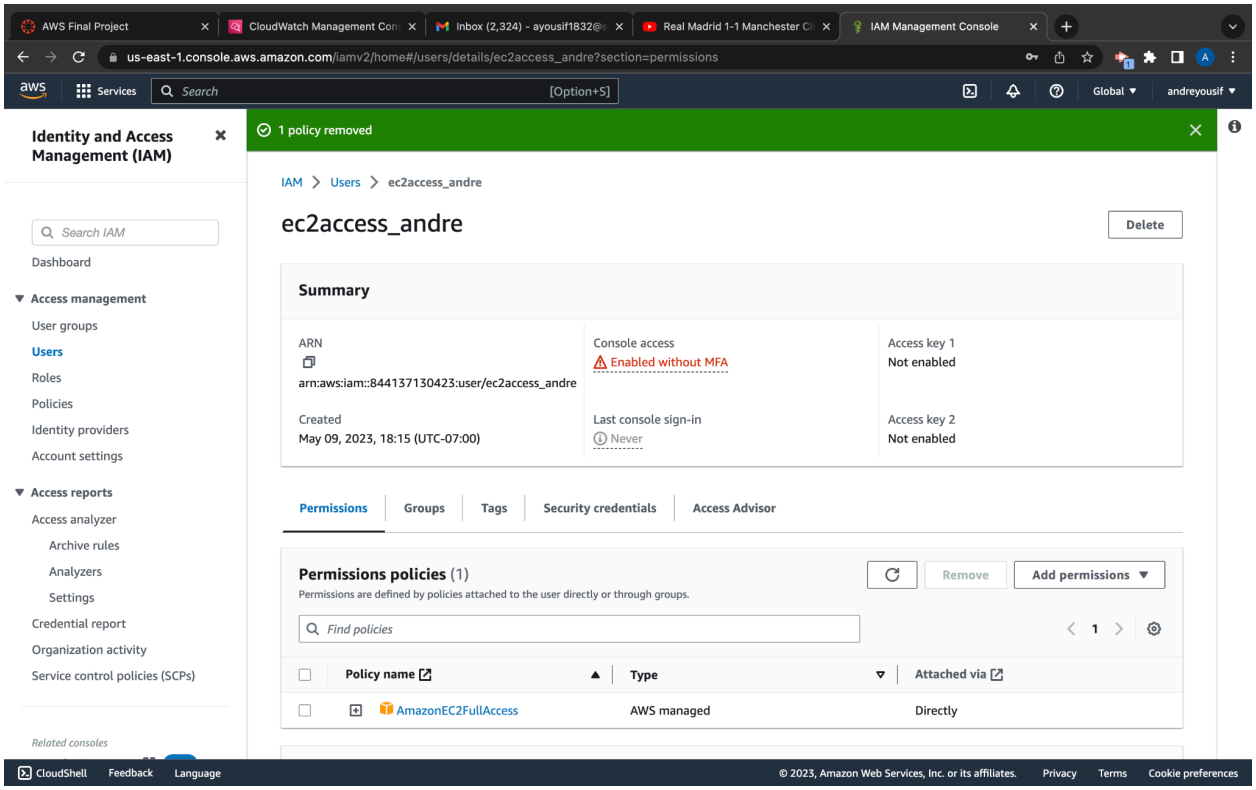


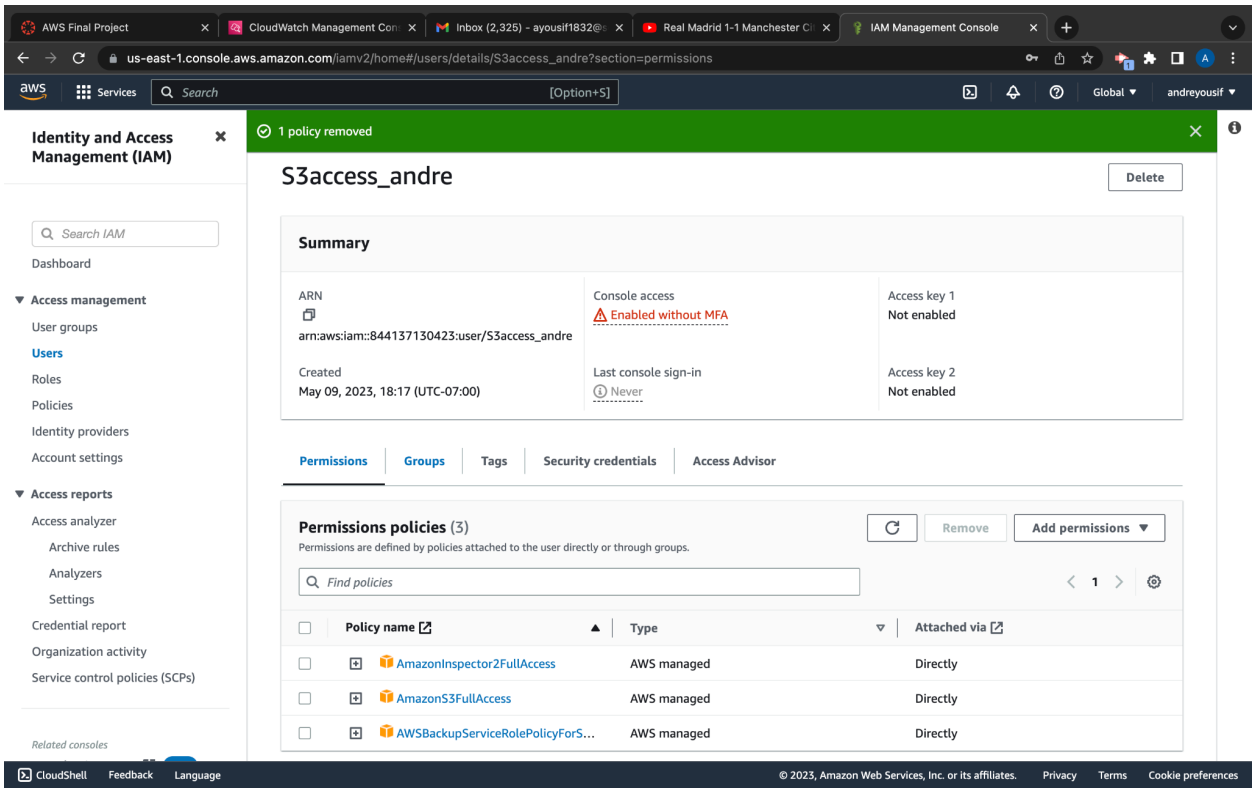
Configuring a backup tool to auto backup the instance- AWS Backup Service

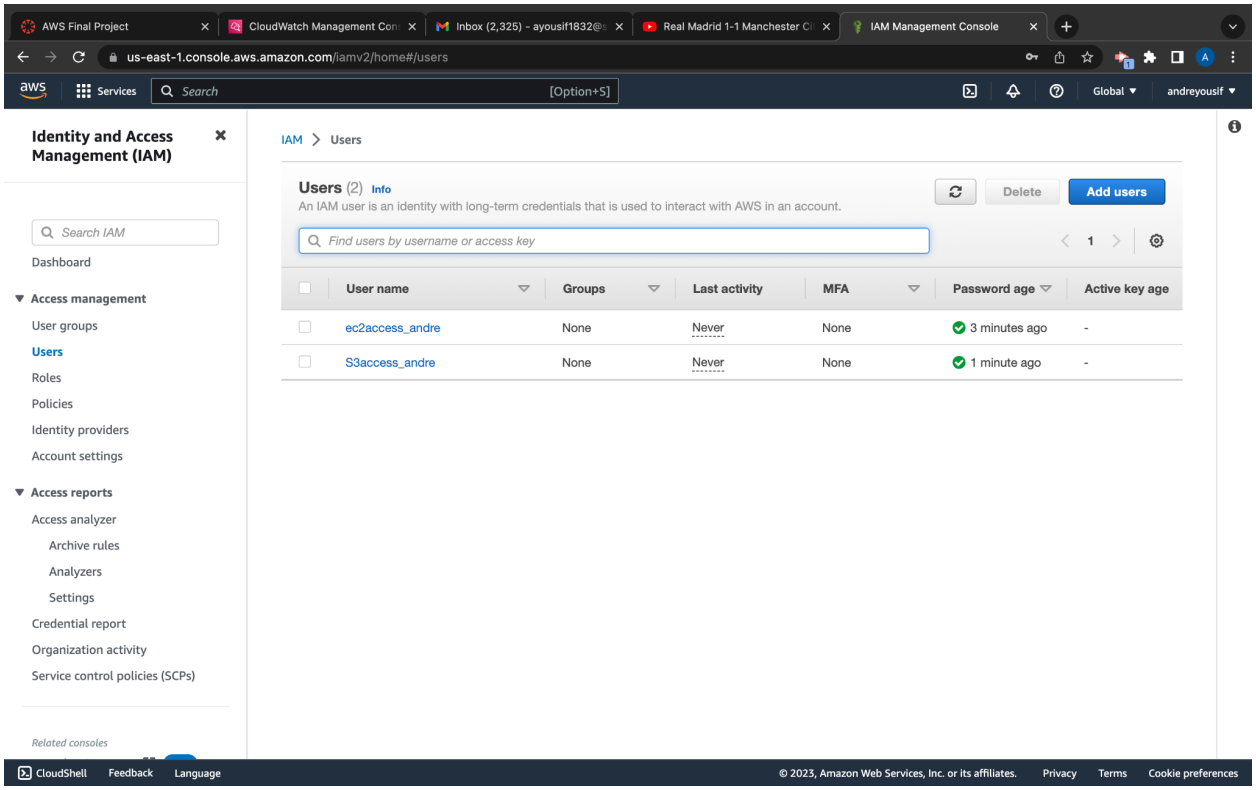




Creating IAM users with the permissions/policies


AWS Final Project
CloudWatch Management Con
Inbox (2,324) - ayousif1832@
Real Madrid 1-1 Manchester Cl
IAM Management Console
us-east-1.console.aws.amazon.com/iamv2/home#/users/details/ec2access_andre?section=permissions
Services
Search
[Option+S]
Global
andreyousif
Identity and Access Management (IAM)
1 policy removed
IAM > Users > ec2access_andre
ec2access_andre
Delete
Search IAM
Dashboard
Access management
User groups
Users
Roles
Policies
Identity providers
Account settings
Access reports
Access analyzer
Archive rules
Analyzers
Settings
Credential report
Organization activity
Service control policies (SCPs)
Related consoles
Summary
ARN
arn:aws:iam::844137130423:user/ec2access_andre
Console access
Enabled without MFA
Access key 1
Not enabled
Created
May 09, 2023, 18:15 (UTC-07:00)
Last console sign-in
Never
Access key 2
Not enabled
Permissions
Groups
Tags
Security credentials
Access Advisor
Permissions policies (1)
Permissions are defined by policies attached to the user directly or through groups.
Remove
Add permissions
Find policies
Policy name
Type
Attached via
AmazonEC2FullAccess
AWS managed
Directly
CloudShell
Feedback
Language
© 2023, Amazon Web Services, Inc. or its affiliates.
Privacy
Terms
Cookie preferences


AWS Final Project
CloudWatch Management Con
Inbox (2,325) - ayousif1832@
Real Madrid 1-1 Manchester Cl
IAM Management Console
us-east-1.console.aws.amazon.com/iamv2/home#/users/details/S3access_andre?section=permissions
Services
Search
[Option+S]
Global
andreyousif
Identity and Access Management (IAM)
1 policy removed
S3access_andre
Delete
Search IAM
Dashboard
Access management
User groups
Users
Roles
Policies
Identity providers
Account settings
Access reports
Access analyzer
Archive rules
Analyzers
Settings
Credential report
Organization activity
Service control policies (SCPs)
Related consoles
Summary
ARN
arn:aws:iam::844137130423:user/S3access_andre
Console access
Enabled without MFA
Access key 1
Not enabled
Created
May 09, 2023, 18:17 (UTC-07:00)
Last console sign-in
Never
Access key 2
Not enabled
Permissions
Groups
Tags
Security credentials
Access Advisor
Permissions policies (3)
Permissions are defined by policies attached to the user directly or through groups.
Remove
Add permissions
Find policies
Policy name
Type
Attached via
AmazonInspector2FullAccess
AWS managed
Directly
AmazonS3FullAccess
AWS managed
Directly
AWSBackupServiceRolePolicyForS...
AWS managed
Directly
CloudShell
Feedback
Language
© 2023, Amazon Web Services, Inc. or its affiliates.
Privacy
Terms
Cookie preferences



Configuring a vulnerability scanner - Inspector - REPORT