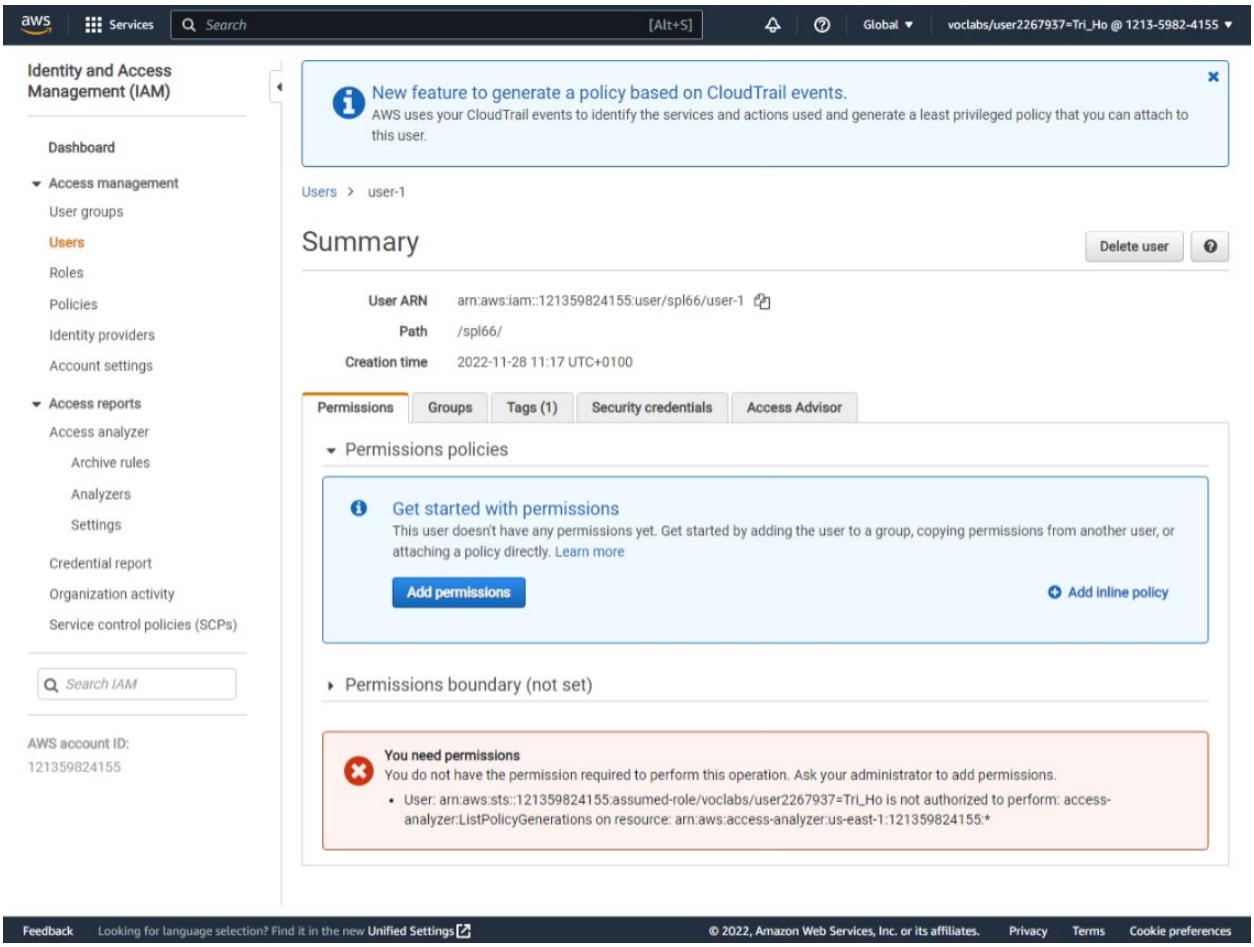
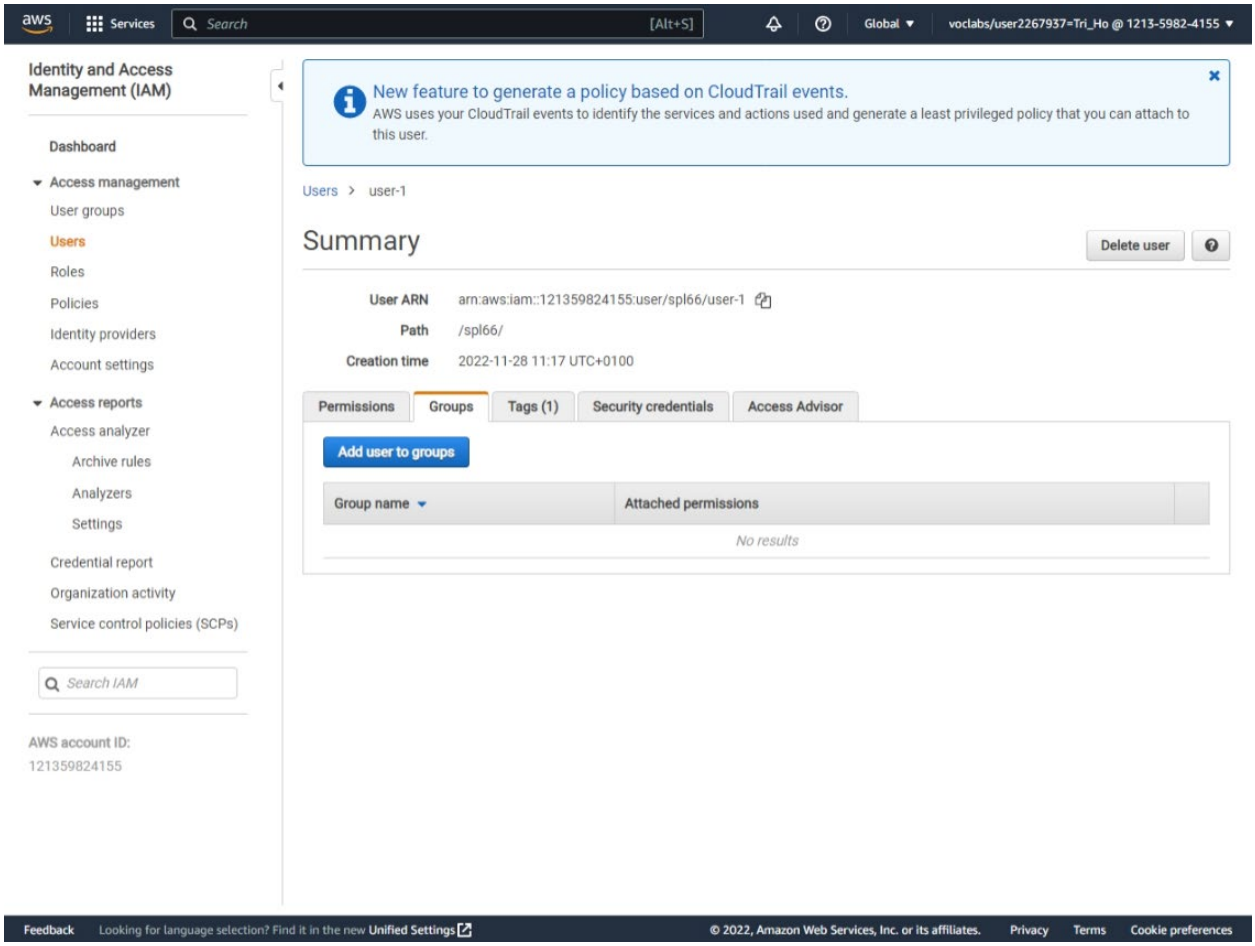
Introduction to AWS IAM

CMIT 326 7387 Cloud Technologies

Task 1: Explore the Users and Groups




aws
Services
Search
[Alt+S]
Global
voclabs/user2267937=Tri_Ho @ 1213-5982-4155
Identity and Access Management (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)
Search IAM
AWS account ID:
121359824155
New feature to generate a policy based on CloudTrail events.
AWS uses your CloudTrail events to identify the services and actions used and generate a least privileged policy that you can attach to this user.
Users > user-1
Summary
Delete user
User ARN
arn:aws:iam::121359824155:user/spl66/user-1
Path
/spl66/
Creation time
2022-11-28 11:17 UTC+0100
Permissions
Groups
Tags (1)
Security credentials
Access Advisor
Add user to groups
Group name
Attached permissions
No results
Feedback
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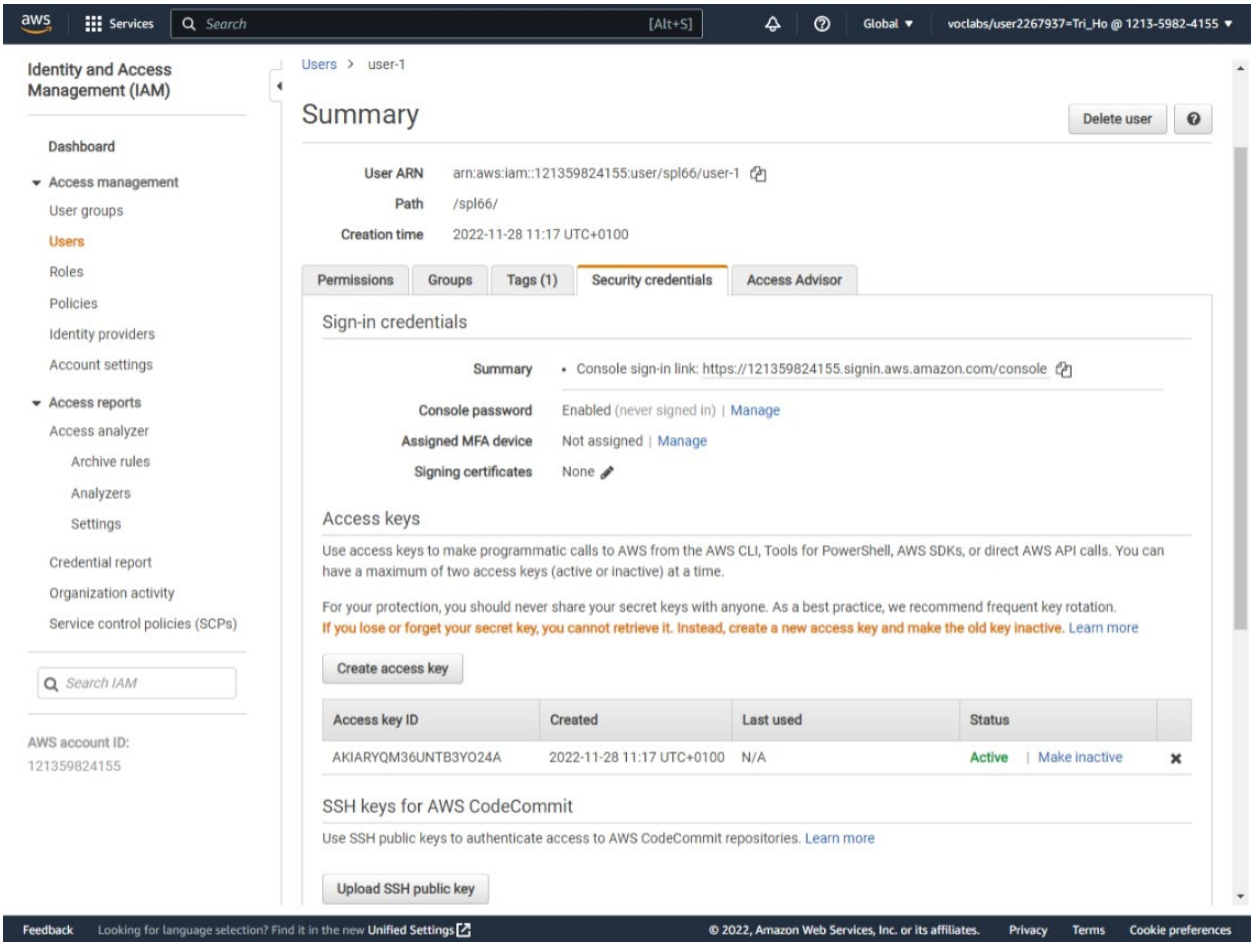
aws
Services
Search
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voclabs/user2267937=Tri_Ho @ 1213-5982-4155
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Archive rules
Analyzers
Settings
Credential report
Organization activity
Service control policies (SCPs)
Search IAM
AWS account ID:
121359824155
Users > user-1
Summary
Delete user
User ARN
arn:aws:iam::121359824155:user/spl66/user-1
Path
/spl66/
Creation time
2022-11-28 11:17 UTC+0100
Permissions
Groups
Tags (1)
Security credentials
Access Advisor
Sign-in credentials
Summary
Console sign-in link: https://121359824155.signin.aws.amazon.com/console
Console password
Enabled (never signed in) | Manage
Assigned MFA device
Not assigned | Manage
Signing certificates
None
Access keys
Use access keys to make programmatic calls to AWS from the AWS CLI, Tools for PowerShell, AWS SDKs, or direct AWS API calls. You can have a maximum of two access keys (active or inactive) at a time.
For your protection, you should never share your secret keys with anyone. As a best practice, we recommend frequent key rotation.
If you lose or forget your secret key, you cannot retrieve it. Instead, create a new access key and make the old key inactive. Learn more
Create access key
Access key ID
Created
Last used
Status
AKIARYQM36UNTB3YO24A
2022-11-28 11:17 UTC+0100
N/A
Active | Make inactive
SSH keys for AWS CodeCommit
Use SSH public keys to authenticate access to AWS CodeCommit repositories. Learn more
Upload SSH public key
Feedback
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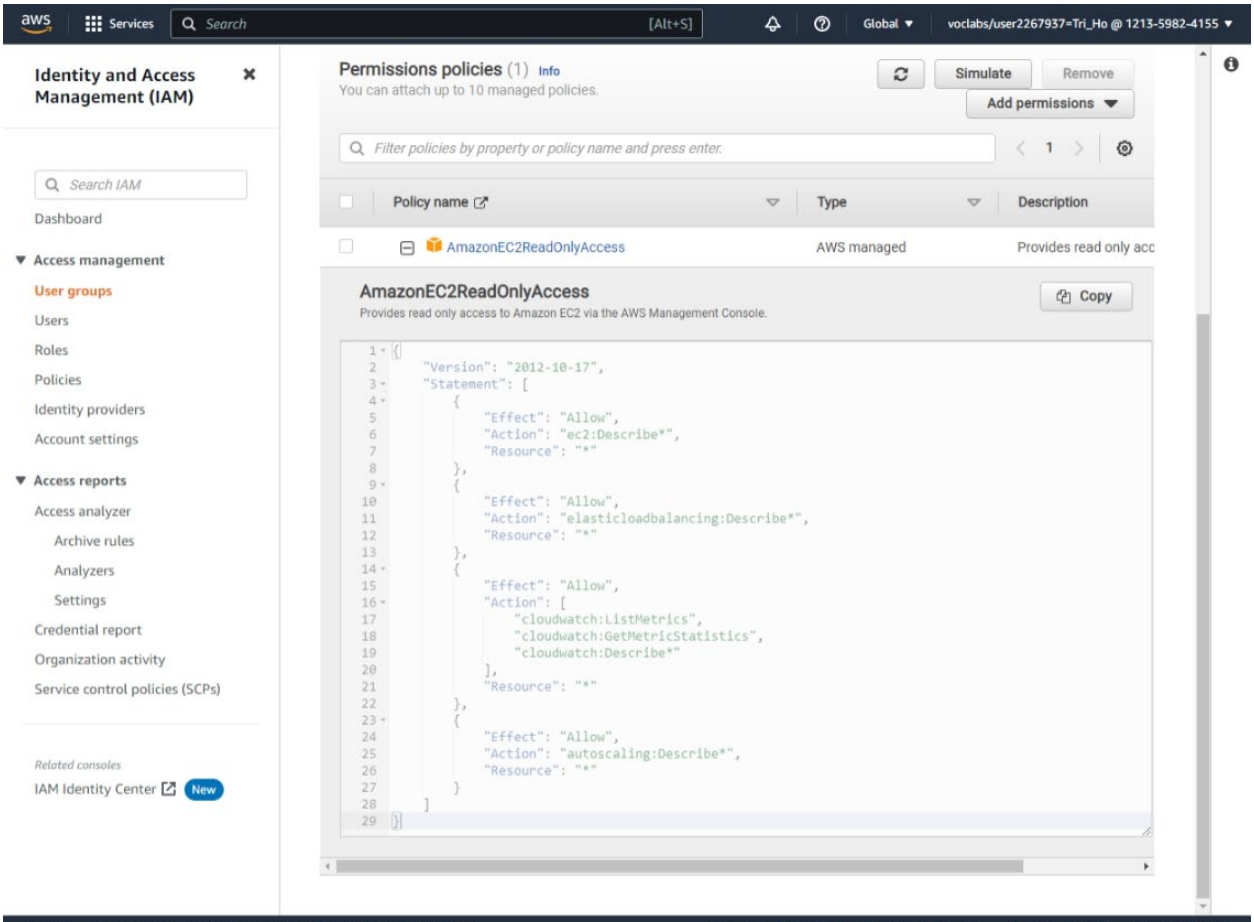
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Identity and Access Management (IAM)
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Dashboard
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User groups
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Settings
Credential report
Organization activity
Service control policies (SCPs)
Related consoles
IAM Identity Center
New
Permissions policies (1) Info
You can attach up to 10 managed policies.
Simulate
Remove
Add permissions
Filter policies by property or policy name and press enter.
1
Policy name
Type
Description
AmazonEC2ReadOnlyAccess
AWS managed
Provides read only acc
AmazonEC2ReadOnlyAccess
Provides read only access to Amazon EC2 via the AWS Management Console.
Copy
{
"Version": "2012-10-17",
"Statement": [
{
"Effect": "Allow",
"Action": "ec2:Describe*",
"Resource": "*"
},
{
"Effect": "Allow",
"Action": "elasticloadbalancing:Describe*",
"Resource": "*"
},
{
"Effect": "Allow",
"Action": [
"cloudwatch:ListMetrics",
"cloudwatch:GetMetricStatistics",
"cloudwatch:Describe*"
],
"Resource": "*"
},
{
"Effect": "Allow",
"Action": "autoscaling:Describe*",
"Resource": "*"
}
]
}
Feedback
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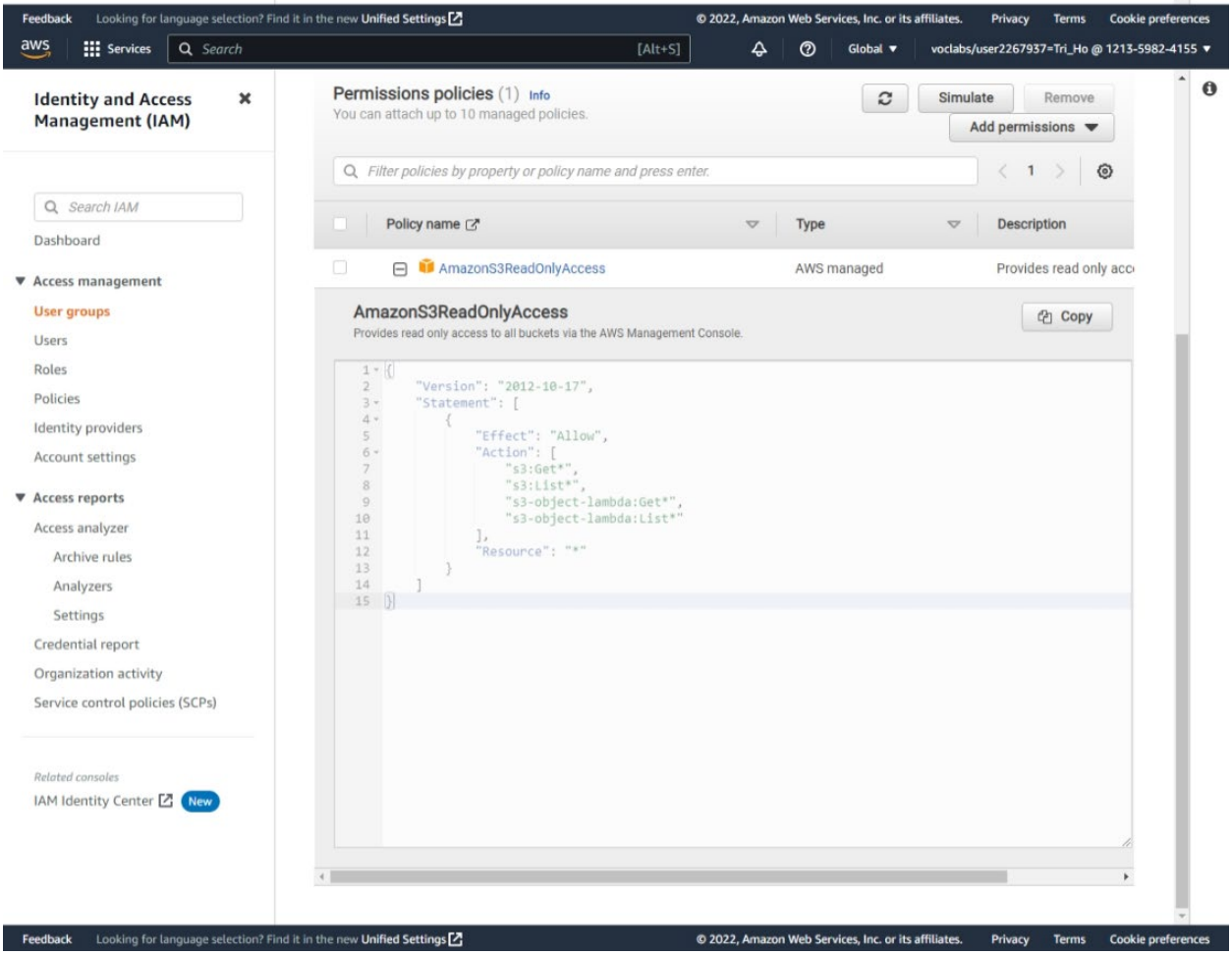
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Permissions policies (1) Info
You can attach up to 10 managed policies.
Simulate
Remove
Add permissions
Filter policies by property or policy name and press enter.
1
Policy name
Type
Description
AmazonS3ReadOnlyAccess
AWS managed
Provides read only acc
AmazonS3ReadOnlyAccess
Provides read only access to all buckets via the AWS Management Console.
Copy
{
"Version": "2012-10-17",
"Statement": [
{
"Effect": "Allow",
"Action": [
"s3:Get*",
"s3:List*",
"s3-object-lambda:Get*",
"s3-object-lambda:List*"
],
"Resource": "*"
}
]
}
Feedback
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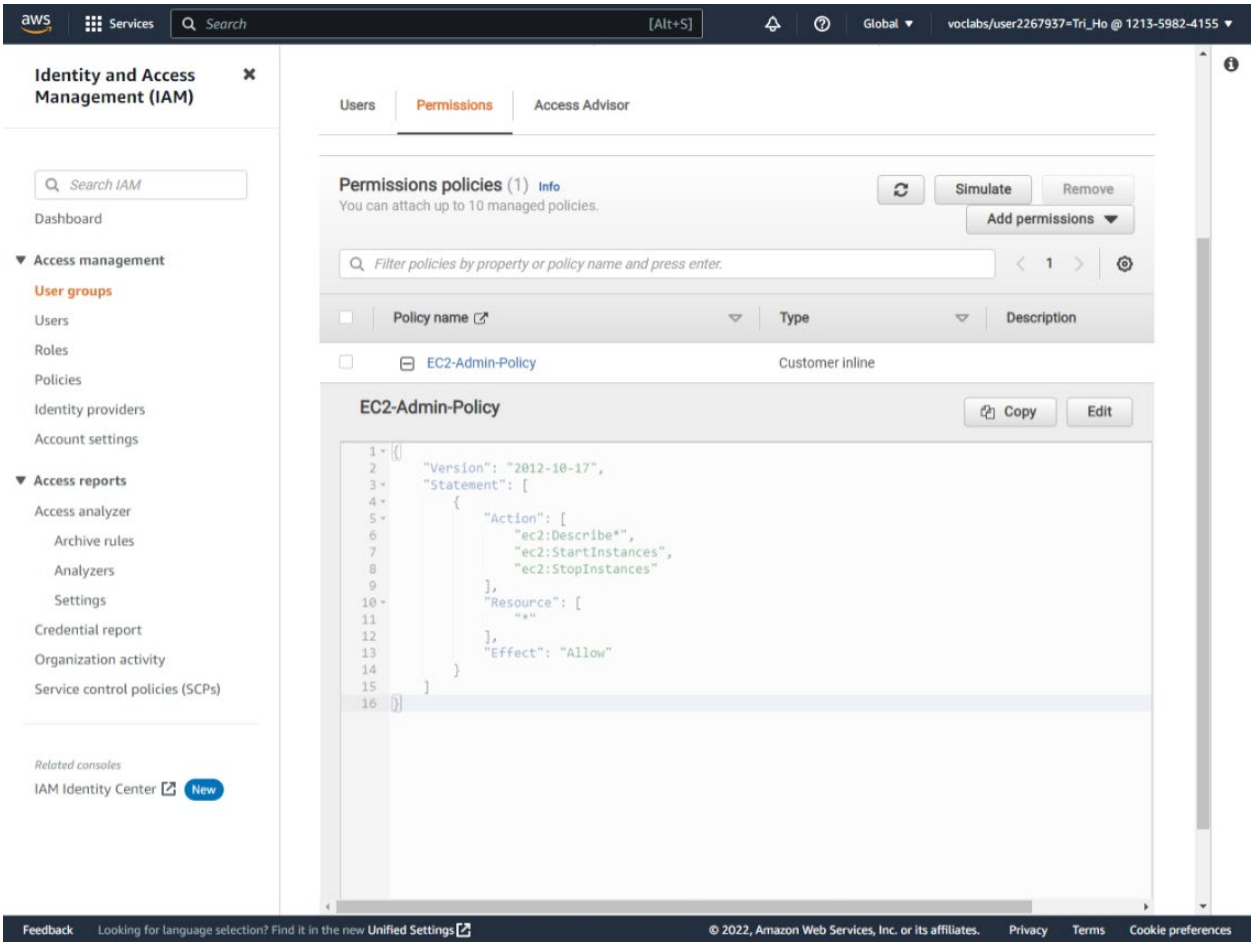
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New
Users
Permissions
Access Advisor
Permissions policies (1) Info
You can attach up to 10 managed policies.
Simulate
Remove
Add permissions
Filter policies by property or policy name and press enter.
1
Policy name
Type
Description
EC2-Admin-Policy
Customer inline
EC2-Admin-Policy
Copy
Edit
{
"Version": "2012-10-17",
"Statement": [
{
"Action": [
"ec2:Describe*",
"ec2:StartInstances",
"ec2:StopInstances"
],
"Resource": [
"*"
],
"Effect": "Allow"
}
]
}
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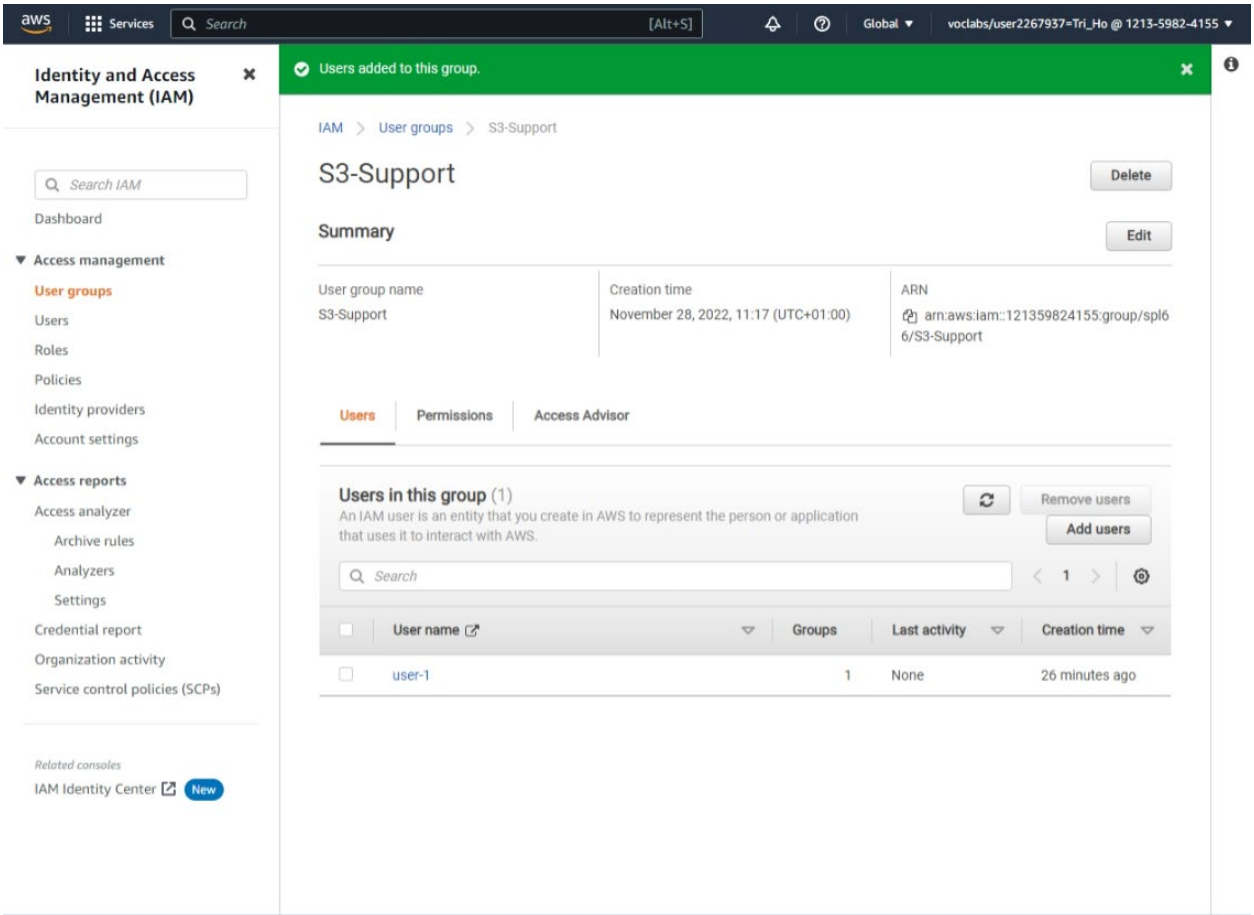
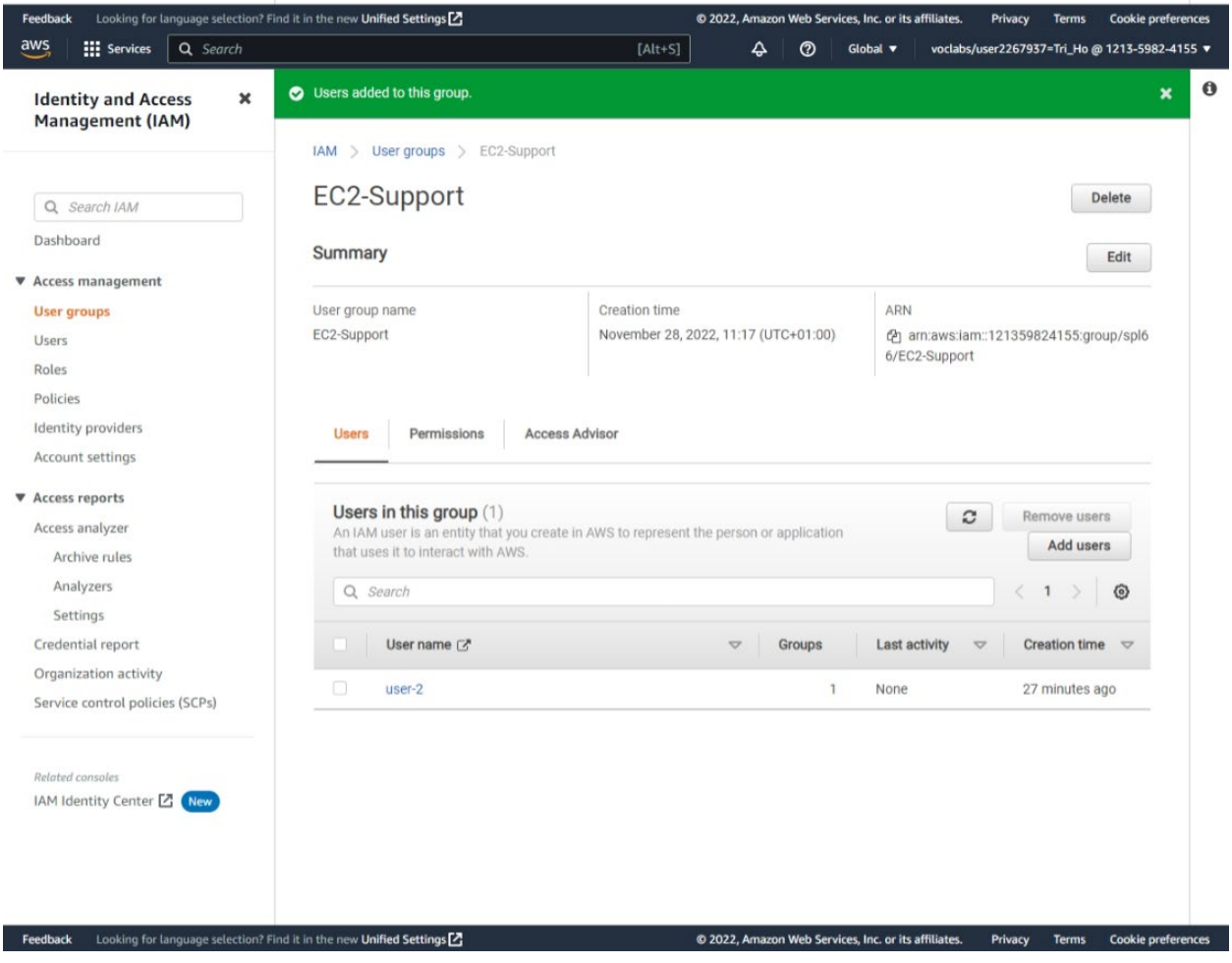
Task 2: Add Users to Groups


aws
Services
Search
[Alt+S]
Global
voclabs/user2267937=Tri_Ho @ 1213-5982-4155
Identity and Access Management (IAM)
Users added to this group.
IAM > User groups > S3-Support
S3-Support
Delete
Summary
Edit
User group name
S3-Support
Creation time
November 28, 2022, 11:17 (UTC+01:00)
ARN
arn:aws:iam::121359824155:group/spl66/S3-Support
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
IAM Identity Center
New
Users
Permissions
Access Advisor
Users in this group (1)
An IAM user is an entity that you create in AWS to represent the person or application that uses it to interact with AWS.
Remove users
Add users
Search
1
User name
Groups
Last activity
Creation time
user-1
1
None
26 minutes ago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aws
Services
Search
[Alt+S]
Global
voclabs/user2267937=Tri_Ho @ 1213-5982-4155
Identity and Access Management (IAM)
Users added to this group.
IAM > User groups > EC2-Support
EC2-Support
Delete
Summary
Edit
User group name
EC2-Support
Creation time
November 28, 2022, 11:17 (UTC+01:00)
ARN
arn:aws:iam::121359824155:group/spl66/EC2-Support
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
IAM Identity Center
New
Users
Permissions
Access Advisor
Users in this group (1)
An IAM user is an entity that you create in AWS to represent the person or application that uses it to interact with AWS.
Remove users
Add users
Search
1
User name
Groups
Last activity
Creation time
user-2
1
None
27 minutes ago
Feedback
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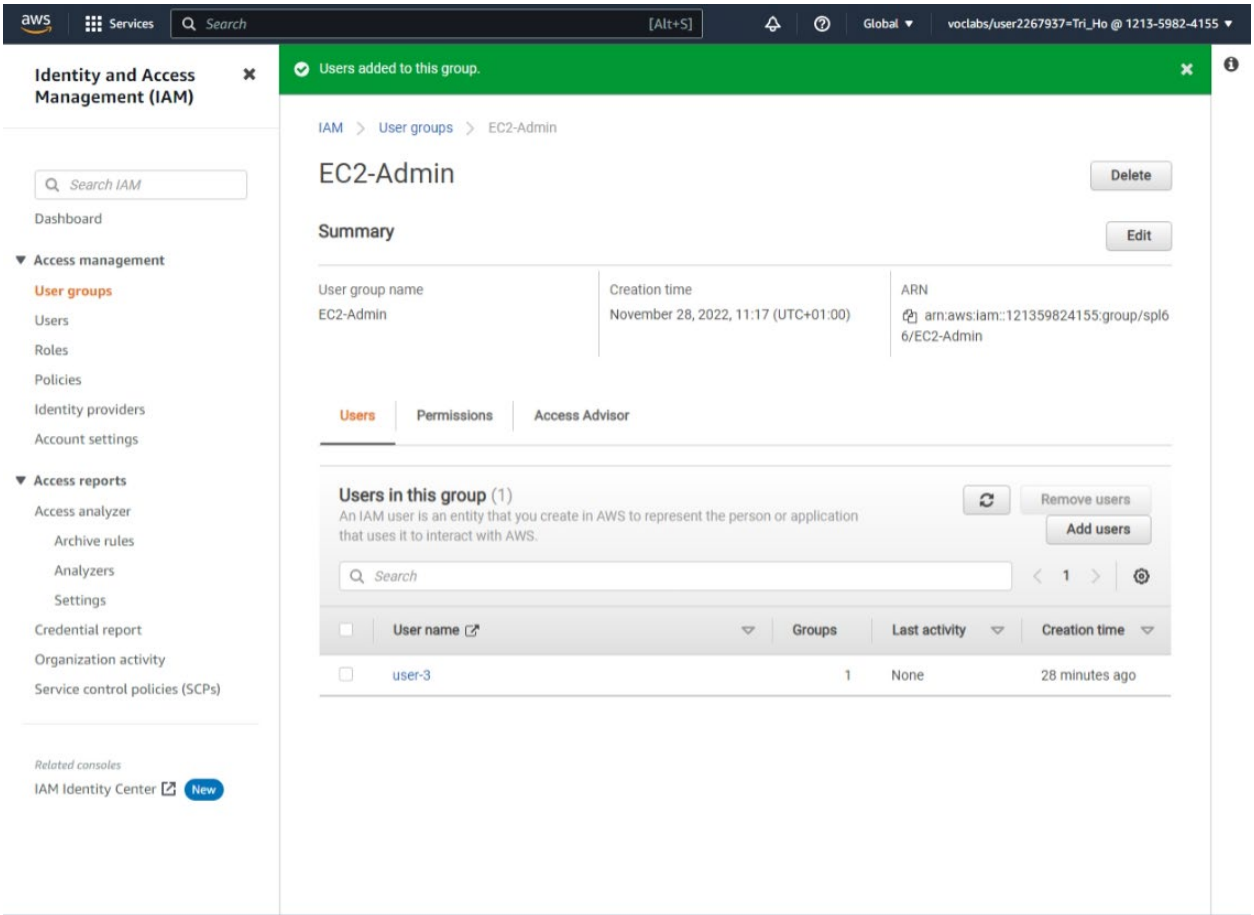
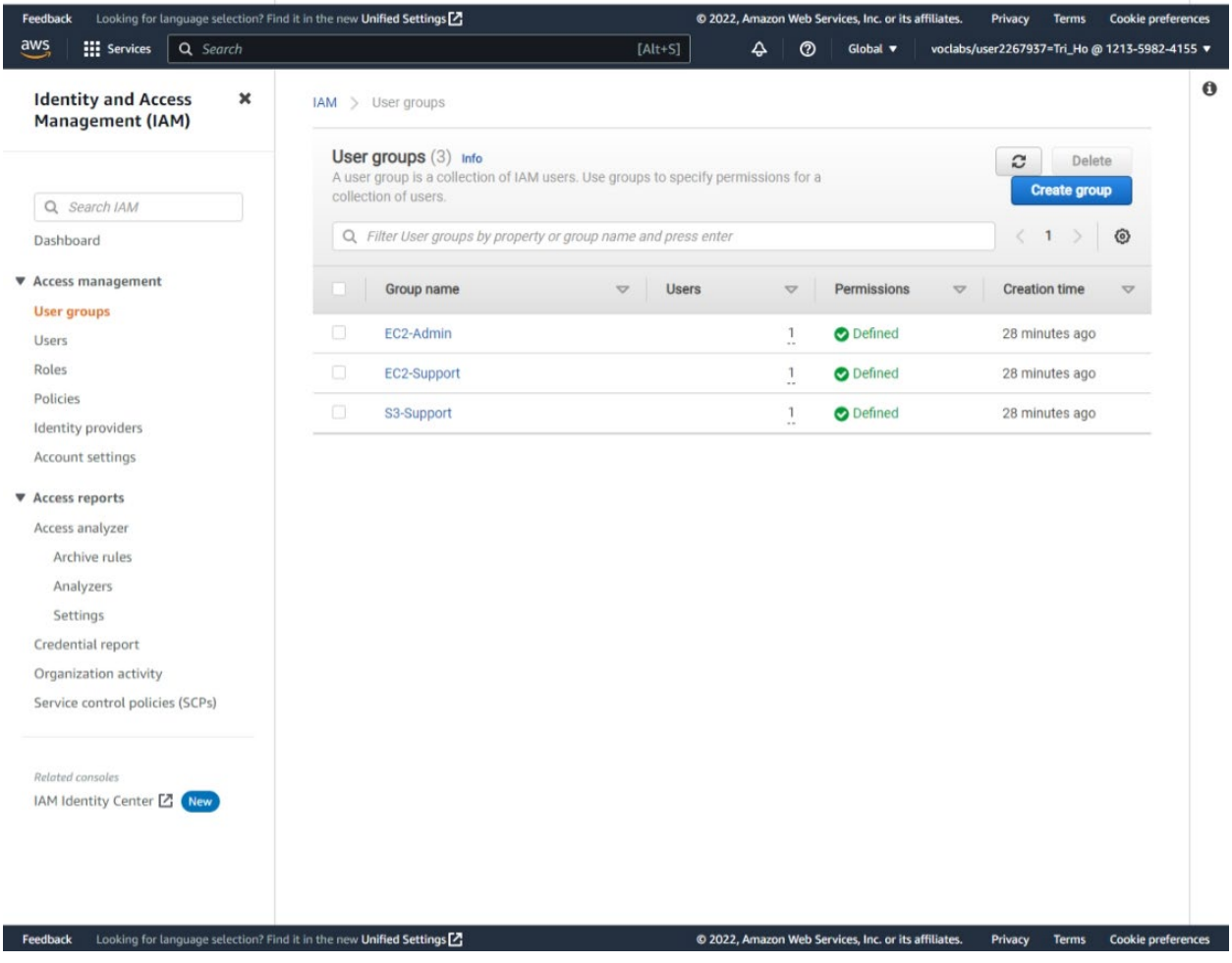

aws
Services
Search
[Alt+S]
Global
voclabs/user2267937=Tri_Ho @ 1213-5982-4155
Identity and Access Management (IAM)
Users added to this group.
IAM > User groups > EC2-Admin
EC2-Admin
Delete
Summary
Edit
User group name
EC2-Admin
Creation time
November 28, 2022, 11:17 (UTC+01:00)
ARN
arn:aws:iam::121359824155:group/spl66/EC2-Admin
Users
Permissions
Access Advisor
Users in this group (1)
An IAM user is an entity that you create in AWS to represent the person or application that uses it to interact with AWS.
Remove users
Add users
Search
User name
Groups
Last activity
Creation time
user-3
1
None
28 minutes ago
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
IAM Identity Center
New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aws
Services
Search
[Alt+S]
Global
voclabs/user2267937=Tri_Ho @ 1213-5982-4155
Identity and Access Management (IAM)
IAM > User groups
User groups (3) Info
A user group is a collection of IAM users. Use groups to specify permissions for a collection of users.
Delete
Create group
Filter User groups by property or group name and press enter
Group name
Users
Permissions
Creation time
EC2-Admin
1
Defined
28 minutes ago
EC2-Support
1
Defined
28 minutes ago
S3-Support
1
Defined
28 minutes ago
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
IAM Identity Center
New
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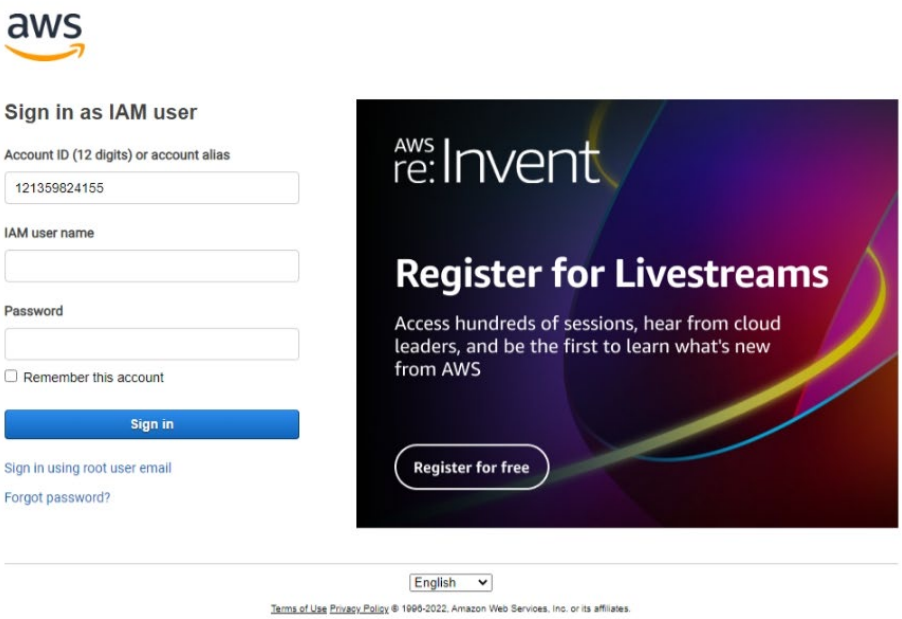
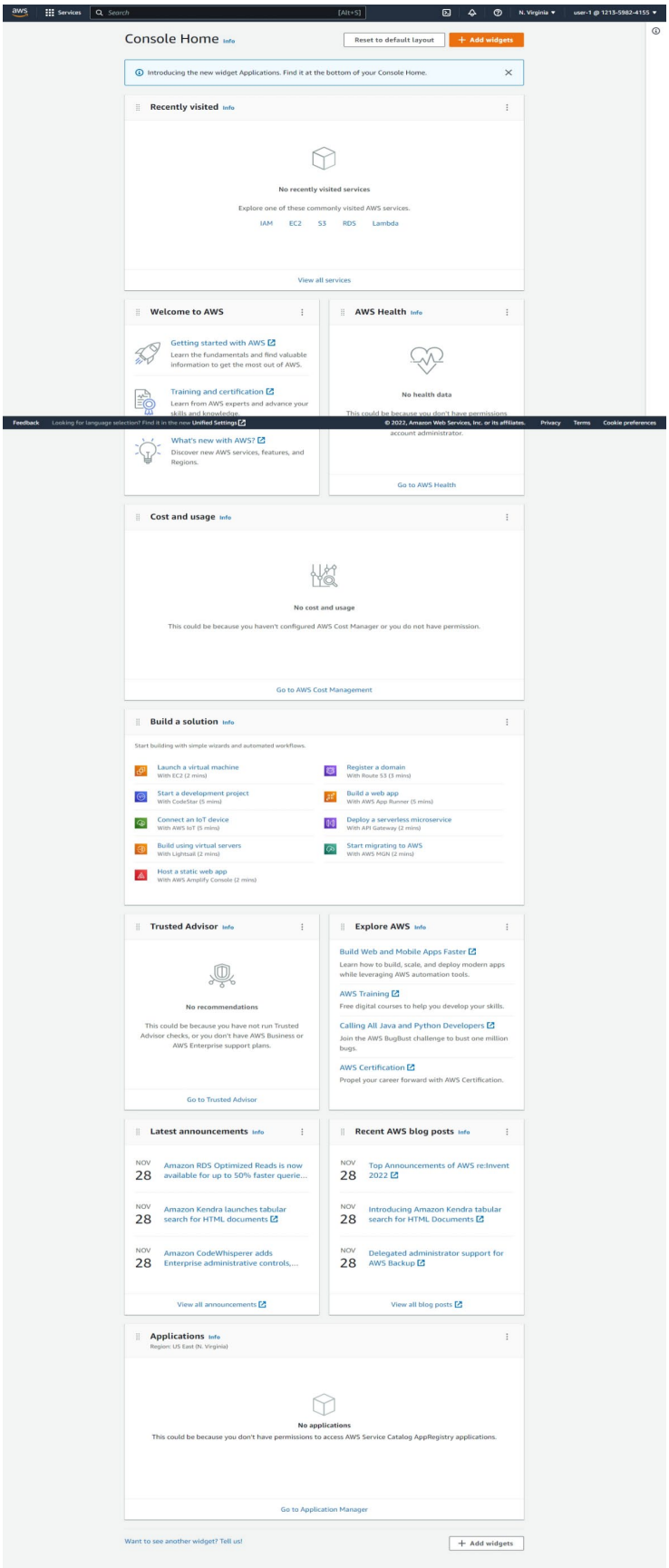
Task 3: Sign-In and Test Users




Services
Search
[Alt+S]
N. Virginia
user-1 @ 1213-5982-4155
Console Home Info
Reset to default layout
+ Add widgets
Introducing the new widget Applications. Find it at the bottom of your Console Home.
Recently visited Info
No recently visited services
Explore one of these commonly visited AWS services.
IAM EC2 S3 RDS Lambda
View all services
Welcome to AWS
Getting started with AWS
Learn the fundamentals and find valuable information to get the most out of AWS.
Training and certification
Learn from AWS experts and advance your skills and knowledge.
What's new with AWS?
Discover new AWS services, features, and Regions.
AWS Health Info
No health data
This could be because you don't have permissions
account administrator.
Go to AWS Health
Feedback
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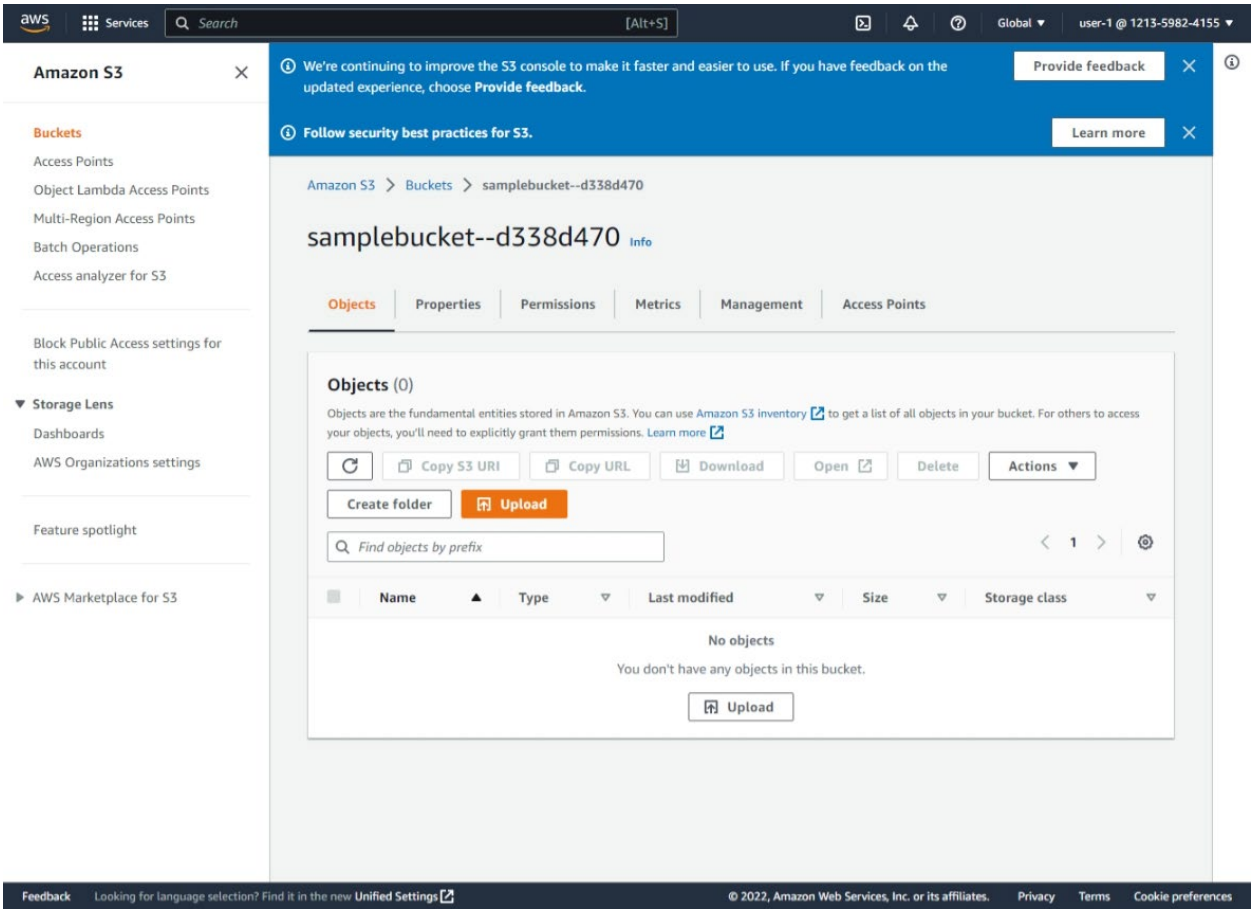
Cost and usage Info
No cost and usage
This could be because you haven't configured AWS Cost Manager or you do not have permission.
Go to AWS Cost Management
Build a solution Info
Start building with simple wizards and automated workflows.
Launch a virtual machine
With EC2 (2 mins)
Register a domain
With Route 53 (3 mins)
Start a development project
With CodeStar (5 mins)
Build a web app
With AWS App Runner (5 mins)
Connect an IoT device
With AWS IoT (5 mins)
Deploy a serverless microservice
With API Gateway (2 mins)
Build using virtual servers
With Lightsail (2 mins)
Start migrating to AWS
With AWS MGN (2 mins)
Host a static web app
With AWS Amplify Console (2 mins)
Trusted Advisor Info
No recommendations
This could be because you have not run Trusted Advisor checks, or you don't have AWS Business or AWS Enterprise support plans.
Go to Trusted Advisor
Explore AWS Info
Build Web and Mobile Apps Faster
Learn how to build, scale, and deploy modern apps while leveraging AWS automation tools.
AWS Training
Free digital courses to help you develop your skills.
Calling All Java and Python Developers
Join the AWS BugBust challenge to bust one million bugs.
AWS Certification
Propel your career forward with AWS Certification.
Latest announcements Info
NOV 28 Amazon RDS Optimized Reads is now available for up to 50% faster querie...
NOV 28 Amazon Kendra launches tabular search for HTML documents
NOV 28 Amazon CodeWhisperer adds Enterprise administrative controls,...
View all announcements
Recent AWS blog posts Info
NOV 28 Top Announcements of AWS re:Invent 2022
NOV 28 Introducing Amazon Kendra tabular search for HTML Documents
NOV 28 Delegated administrator support for AWS Backup
View all blog posts
Applications Info
Region: US East (N. Virginia)
No applications
This could be because you don't have permissions to access AWS Service Catalog AppRegistry applications.
Go to Application Manager
Want to see another widget? Tell us!
+ Add widgets


aws
Services
Search
[Alt+S]
Global
user-1 @ 1213-5982-4155
Amazon S3
We're continuing to improve the S3 console to make it faster and easier to use. If you have feedback on the updated experience, choose Provide feedback.
Provide feedback
Follow security best practices for S3.
Learn more
Buckets
Access Points
Object Lambda Access Points
Multi-Region Access Points
Batch Operations
Access analyzer for S3
Block Public Access settings for this account
Storage Lens
Dashboards
AWS Organizations settings
Feature spotlight
AWS Marketplace for S3
Amazon S3 > Buckets > samplebucket--d338d470
samplebucket--d338d470 Info
Objects
Properties
Permissions
Metrics
Management
Access Points
Objects (0)
Objects are the fundamental entities stored in Amazon S3. You can use Amazon S3 inventory to get a list of all objects in your bucket. For others to access your objects, you'll need to explicitly grant them permissions. Learn more
Copy S3 URI
Copy URL
Download
Open
Delete
Actions
Create folder
Upload
Find objects by prefix
1
Name
Type
Last modified
Size
Storage class
No objects
You don't have any objects in this bucket.
Upload
Feedback
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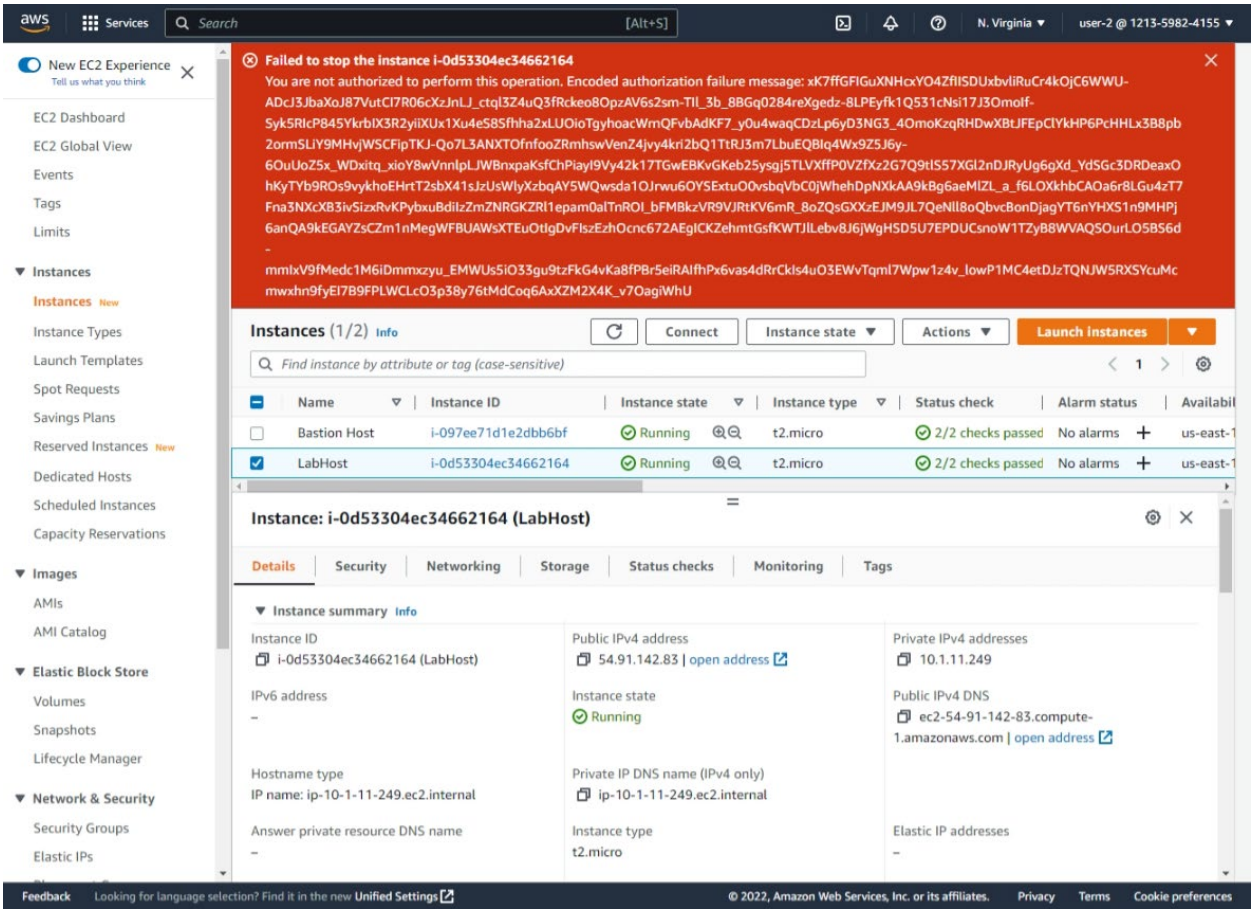
Failed to stop the instance i-0d53304ec34662164
You are not authorized to perform this operation. Encoded authorization failure message: xK7ffGFIGuXNHcxYO4ZfISDUxbvliRuCr4kOjC6WWU-ADcJ3JbaXoJ87VutCI7R06cXzJnLJ_ctql3Z4uQ3fRckeo8OpzAV6s2sm-TIl_3b_8BGq0284reXgedz-8LPEyfk1Q531cNsi17J3OmoIf-Syk5RIcP845YkrbIX3R2yiiXUx1Xu4eS85fhha2xLUOioTgyhoacWmQFvbAdKF7_y0u4waqCDzLp6yD3NG3_4OmoKzqRHDwXBtJFEpCIYkHP6PcHHLx3B8pb2ormSLiY9MHvjWSCFipTKJ-Qo7L3ANXTOfnfooZRmhswVenZ4jvy4kri2bQ1TtRJ3m7LbuEQBIq4Wx9Z5J6y-6OuUoZ5x_WDxitq_xioY8wVnnlpLJWBnxpaKsfChPiayI9Vy42k17TGwEBKvGKeb25ysgj5TLVXffP0VZfXz2G7Q9tIS57XGl2nDJRyUg6gXd_YdSGc3DRDeaxOhKyTYb9ROs9vykhoEHrtT2sbX41sJzUsWlyXzbqAY5WQwsda1OJrwu6OYSExtuO0vsbqVbC0jWhehDpNXkAA9kBg6aeMlZL_a_f6LOXkhbCAOa6r8LGu4zT7Fna3NXcXB3ivSizxRvKPybxuBdilzZmZNRGKZRl1epam0alTnROI_bFMBkzVR9VJRtKV6mR_8oZQsGXXzEJM9JL7QeNll8oQbvcBonDjagYT6nYHXS1n9MHPj6anQA9kEGAYZsCZm1nMegWFBUAWsXTEuOtlgDvFlszEzhOcnc672AEgICKZehmtGsfKWTJlLebv8J6jWgHSD5U7EPDUCsnoW1TZyB8WVAQSOurLO5BS6d-rmmlxV9fMedc1M6iDmmxzyu_EMWUs5iO33gu9tzFkG4vKa8fPBr5eiRAlfhPx6vas4dRrCkIs4uO3EWvTqml7Wpw1z4v_lowP1MC4etDJzTQNJW5RXSYcuMcmwxhn9fyEI7B9FPLWCLcO3p38y76tMdCoq6AxXZM2X4K_v7OagiWhU
Instances (1/2) Info
Connect
Instance state
Actions
Launch instances
Find instance by attribute or tag (case-sensitive)
Name
Instance ID
Instance state
Instance type
Status check
Alarm status
Bastion Host
i-097ee71d1e2dbb6bf
Running
t2.micro
2/2 checks passed
No alarms
LabHost
i-0d53304ec34662164
Running
t2.micro
2/2 checks passed
No alarms
Instance: i-0d53304ec34662164 (LabHost)
Details
Security
Networking
Storage
Status checks
Monitoring
Tags
Instance summary Info
Instance ID
i-0d53304ec34662164 (LabHost)
Public IPv4 address
54.91.142.83 | open address
Private IPv4 addresses
10.1.11.249
IPv6 address
–
Instance state
Running
Public IPv4 DNS
ec2-54-91-142-83.compute-1.amazonaws.com | open address
Hostname type
IP name: ip-10-1-11-249.ec2.internal
Private IP DNS name (IPv4 only)
ip-10-1-11-249.ec2.internal
Answer private resource DNS name
–
Instance type
t2.micro
Elastic IP addresses
–
EC2 Dashboard
EC2 Global View
Events
Tags
Limits
Instances
Instance Types
Launch Templates
Spot Requests
Savings Plans
Reserved Instances
Dedicated Hosts
Scheduled Instances
Capacity Reservations
Images
AMIs
AMI Catalog
Elastic Block Store
Volumes
Snapshots
Lifecycle Manager
Network & Security
Security Groups
Elastic IPs
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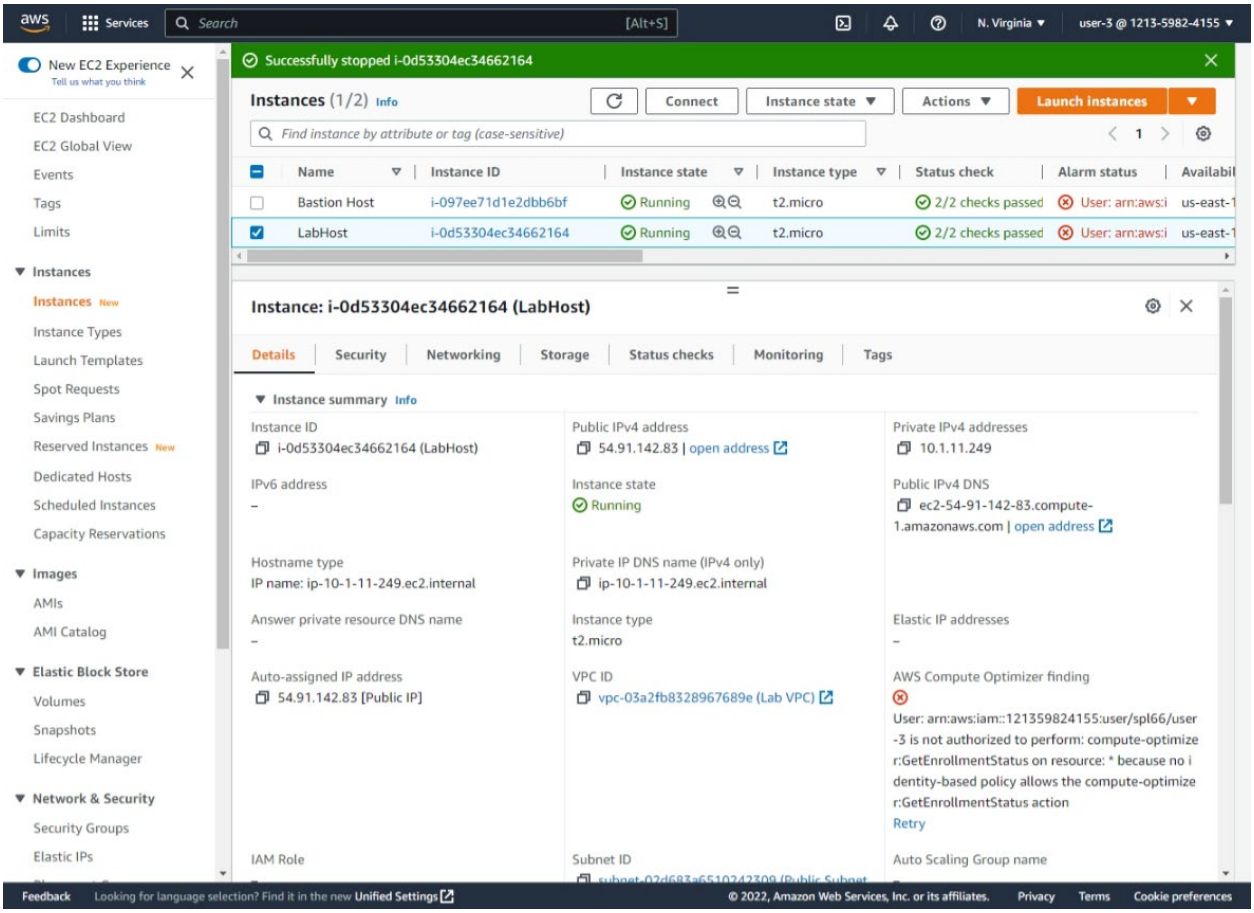
Services
Search
[Alt+S]
N. Virginia
user-3 @ 1213-5982-4155
New EC2 Experience
Tell us what you think
EC2 Dashboard
EC2 Global View
Events
Tags
Limits
Instances
Instances New
Instance Types
Launch Templates
Spot Requests
Savings Plans
Reserved Instances New
Dedicated Hosts
Scheduled Instances
Capacity Reservations
Images
AMIs
AMI Catalog
Elastic Block Store
Volumes
Snapshots
Lifecycle Manager
Network & Security
Security Groups
Elastic IPs
Successfully stopped i-0d53304ec34662164
Instances (1/2) Info
Connect
Instance state
Actions
Launch instances
Find instance by attribute or tag (case-sensitive)
Name
Instance ID
Instance state
Instance type
Status check
Alarm status
Bastion Host
i-097ee71d1e2dbb6bf
Running
t2.micro
2/2 checks passed
User: arn:aws:i
LabHost
i-0d53304ec34662164
Running
t2.micro
2/2 checks passed
User: arn:aws:i
Instance: i-0d53304ec34662164 (LabHost)
Details
Security
Networking
Storage
Status checks
Monitoring
Tags
Instance summary Info
Instance ID
i-0d53304ec34662164 (LabHost)
Public IPv4 address
54.91.142.83 | open address
Private IPv4 addresses
10.1.11.249
IPv6 address
–
Instance state
Running
Public IPv4 DNS
ec2-54-91-142-83.compute-1.amazonaws.com | open address
Hostname type
IP name: ip-10-1-11-249.ec2.internal
Private IP DNS name (IPv4 only)
ip-10-1-11-249.ec2.internal
Answer private resource DNS name
–
Instance type
t2.micro
Elastic IP addresses
–
Auto-assigned IP address
54.91.142.83 [Public IP]
VPC ID
vpc-03a2fb8328967689e (Lab VPC)
AWS Compute Optimizer finding
User: arn:aws:iam::121359824155:user/spl66/user-3 is not authorized to perform: compute-optimizer:GetEnrollmentStatus on resource: * because no identity-based policy allows the compute-optimizer:GetEnrollmentStatus action
Retry
IAM Role
Subnet ID
Auto Scaling Group name
Feedback
Looking for language selection? Find it in the new Unified Settings
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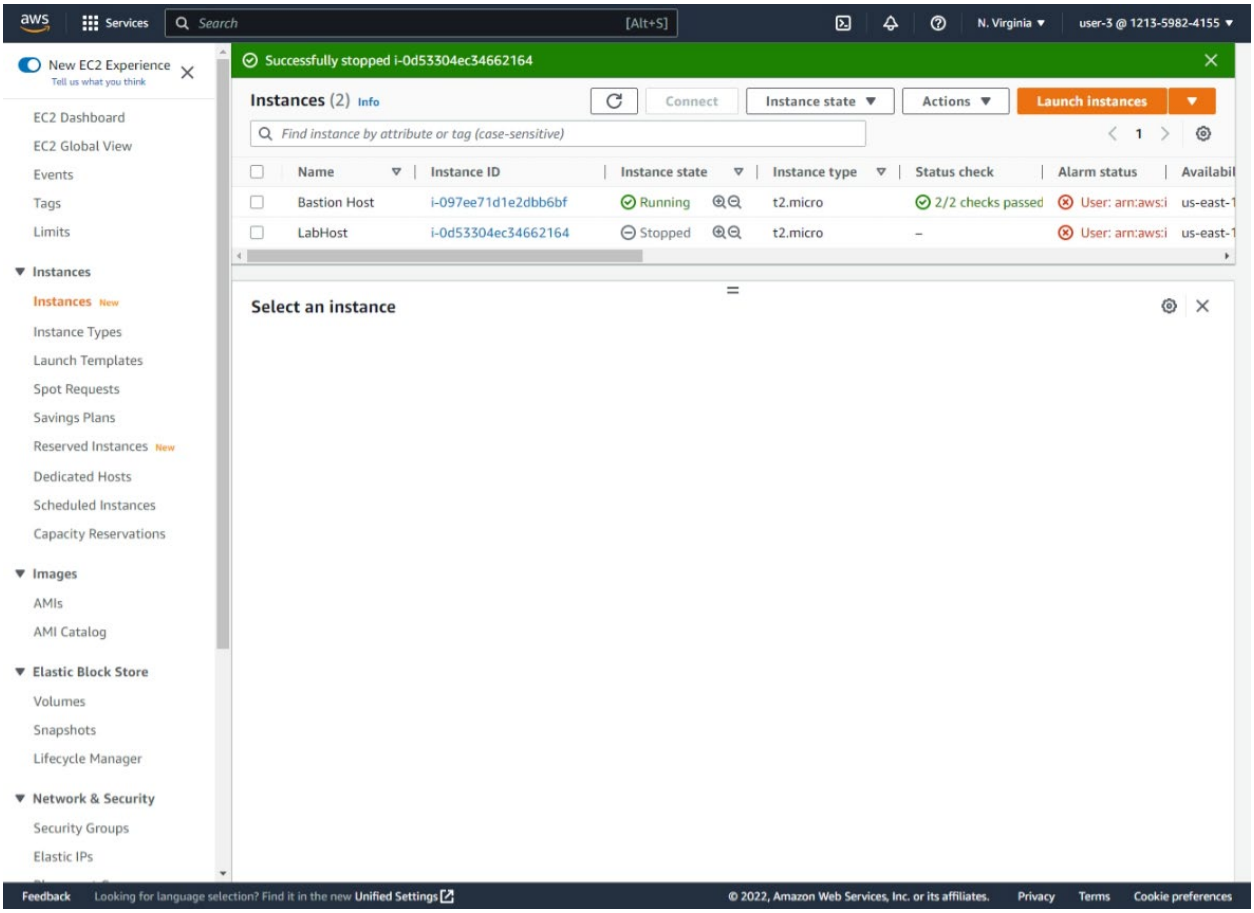
Privacy
Terms
Cookie preferences



Lab Complete