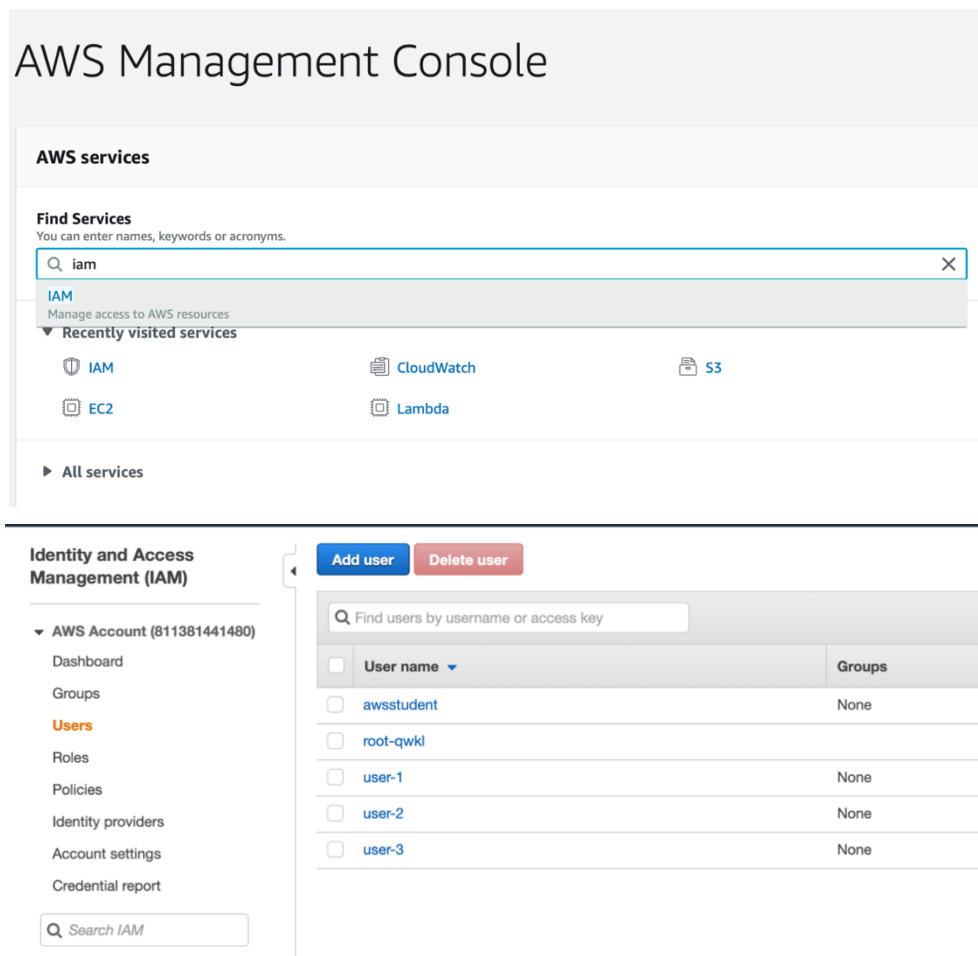


EXPERIMENT-5: Introduction to IAM in AWS

Steps:

1. To Create User First, log in to your AWS Console and select IAM from the list of services.
2. Select Users.
3. Select Add User.
4. Enter a User name and check Programmatic access, then select Next: Permissions. This account will be used by our AWS CLI and Serverless Framework. They'll be connecting to the AWS API directly and will not be using the Management Console.
5. Select Attach existing policies directly.
6. Search for Administrator Access and select the policy, then select Next: Tags. We can provide a more fine-grained policy here and we cover this later in the Customize the Serverless IAM Policy chapter. But for now, let's continue with this. We can optionally add some info to our IAM user. But we'll skip this for now. Click Next: Review.
7. Select Create user.
8. Select Show to reveal Secret access key.
9. Take a note of the Access key ID and Secret access key. We will be needing this later.

Screenshots:



Summary

User ARN

arn:aws:iam::811381441480:user/spl66/user-1

Path

/spl66/

Creation time

2019-11-26 22:42 UTC+0530

Permissions

Groups

Tags (2)

Security credentials

Access Advisor

▼ Permissions policies

Get started with permissions

This user doesn't have any permissions yet. Get started by adding the user to a group, or

Add permissions

▶ Permissions boundary (not set)

Summary

User ARN

arn:aws:iam::811381441480:user/spl66/user-1

Path

/spl66/

Creation time

2019-11-26 22:42 UTC+0530

Permissions

Groups

Tags (2)

Security credentials

Access Advisor

Add user to groups

Group name

Attached permissions

Summary

User ARN

arn:aws:iam::811381441480:user/spl66/user-1

Path

/spl66/

Creation time

2019-11-26 22:42 UTC+0530

Permissions

Groups

Tags (2)

Security credentials

Access Advisor

Sign-in credentials

Summary

• Console sign-in link: https://811381441480.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 secure REST or HTTP Query protocol requests to AWS service APIs. For your protection, you should never share frequent key rotation. Learn more

Create access key

Access key ID

Created

Last used

No results

SSH keys for AWS CodeCommit

Use SSH public keys to authenticate access to AWS CodeCommit repositories. Learn more

Upload SSH public key

SSH key ID


Upload

No results

Create New Group

Group Actions ▾

Q Search

<input type="checkbox"/>	Group Name 	Users
<input type="checkbox"/>	EC2-Admin	0
<input type="checkbox"/>	EC2-Support	0
<input type="checkbox"/>	S3-Support	0

[IAM](#) > [Groups](#) > **EC2-Support**

▼ Summary

Group ARN: arn:aws:iam::811381441480:group/spl66/EC2-Support

Users (in this group): 0

Path: /spl66/

Creation Time: 2019-11-26 22:42 UTC+0530

UsersPermissionsAccess Advisor

This group does not contain any users.

Add Users to Group

[IAM](#) > [Groups](#) > **EC2-Support**

▼ Summary

Group ARN: arn:aws:iam::811381441480:group/spl66/EC2-Support

Users (in this group): 0

Path: /spl66/

Creation Time: 2019-11-26 22:42 UTC+0530

UsersPermissionsAccess Advisor

Managed Policies

The following managed policies are attached to this group. You can attach up to 10 managed policies.

Attach Policy

Policy Name	Actions
AmazonEC2ReadOnlyAccess	Show Policy Detach Policy Simulate Policy

Inline Policies

Show Policy

```
{
  "Version": "2012-10-17",
  "Statement": [
    {
      "Effect": "Allow",
      "Action": [
        "s3:Get*",
        "s3:List*"
      ],
      "Resource": "*"
    }
  ]
}
```

Cancel

Summary

Group ARN: `arn:aws:iam::811381441480:group/spl66/EC2-Admin`
Users (in this group): 0
Path: `/spl66/`
Creation Time: 2019-11-26 22:42 UTC+0530

UsersPermissionsAccess Advisor

Managed Policies

There are no managed policies attached to this group.

Attach Policy

Inline Policies

This view shows all inline policies that are embedded in this group.

Create Group Policy

Policy Name	Actions
EC2-Admin-Policy	Show Policy Edit Policy Remove Policy Simulate Policy

Create New GroupGroup Actions

Q Search			
<input type="checkbox"/>	Group Name	Users	Inline Policy
<input type="checkbox"/>	EC2-Admin	0	✓
<input type="checkbox"/>	EC2-Support	0	
<input type="checkbox"/>	S3-Support	0	

Summary

Group ARN: `arn:aws:iam::811381441480:group/spl66/S3-Support`
Users (in this group): 0
Path: `/spl66/`
Creation Time: 2019-11-26 22:42 UTC+0530

UsersPermissionsAccess Advisor

⚠ This group does not contain any users.

Add Users to Group

Select users to add to the group S3-Support

Q Search				
<input type="checkbox"/>	User Name	Groups	Password	Password Last Used
<input type="checkbox"/>	awsstudent	0	✓	Never
<input type="checkbox"/>	root-qwkl	0		N/A
<input checked="" type="checkbox"/>	user-1	0	✓	Never
<input type="checkbox"/>	user-2	0	✓	Never
<input type="checkbox"/>	user-3	0	✓	Never

We encountered the following errors while processing your request:

- ✖ User: `arn:aws:sts::811381441480:federated-user/awsstudent` is not authorized to perform: `iam:ListGroupsWithUser` on resource: `root-qwkl` with an explicit deny
- ✖ User: `arn:aws:sts::811381441480:federated-user/awsstudent` is not authorized to perform: `iam:ListUserPolicies` on resource: `root-qwkl` with an explicit deny
- ✖ User: `arn:aws:sts::811381441480:federated-user/awsstudent` is not authorized to perform: `iam:ListAccessKeys` on resource: `root-qwkl` with an explicit deny
- ✖ User: `arn:aws:sts::811381441480:federated-user/awsstudent` is not authorized to perform: `iam:GetLoginProfile` on resource: `root-qwkl` with an explicit deny

IAM > Groups > S3-Support

Summary

Group ARN: arn:aws:iam::811381441480:group/spl66/S3-Support
Users (in this group): 1
Path: /spl66/
Creation Time: 2019-11-26 22:42 UTC+0530

Users Permissions Access Advisor

This view shows all users in this group: 1 User


User	Actions
 user-1	Remove User from Group

IAM > Groups > EC2-Support

Summary

Group ARN: arn:aws:iam::811381441480:group/spl66/EC2-Support
Users (in this group): 0
Path: /spl66/
Creation Time: 2019-11-26 22:42 UTC+0530

Users Permissions Access Advisor

 This group does not contain any users.

[Add Users to Group](#)


IAM > Groups > EC2-Support

Summary

Group ARN: arn:aws:iam::811381441480:group/spl66/EC2-Support
Users (in this group): 1
Path: /spl66/
Creation Time: 2019-11-26 22:42 UTC+0530

Users Permissions Access Advisor

This view shows all users in this group: 1 User

User	Actions
 user-2	Remove User from Group

IAM > Groups > EC2-Admin

Summary

Group ARN: arn:aws:iam::811381441480:group/spl66/EC2-Admin
Users (in this group): 0
Path: /spl66/
Creation Time: 2019-11-26 22:42 UTC+0530

Users Permissions Access Advisor

 This group does not contain any users.

[Add Users to Group](#)


IAM > Groups > EC2-Admin

Summary

Group ARN: arn:aws:iam::811381441480:group/spl66/EC2-Admin [🔗](#)
Users (in this group): 1
Path: /spl66/
Creation Time: 2019-11-26 22:42 UTC+0530

Users Permissions Access Advisor

This view shows all users in this group: 1 User

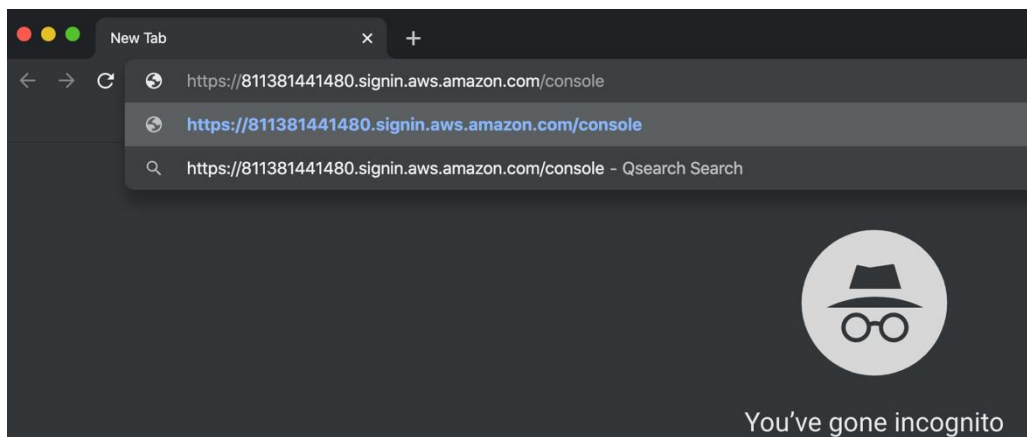
User	Actions
 user-3	Remove User from Group

Create New Group

Group Actions ▾

Q Search

<input type="checkbox"/>	Group Name ▾	Users	Inline Policy
<input type="checkbox"/>	EC2-Admin	1	✓
<input type="checkbox"/>	EC2-Support	1	
<input type="checkbox"/>	S3-Support	1	



Account ID or alias

811381441480

IAM user name

user-1

Password

.....

Sign In

[Sign-in using root account credentials](#)

[Forgot password?](#)

S3 buckets

[+ Create bucket](#)

[Edit public access settings](#)


[Empty](#)

[Delete](#)


☐

Bucket name ▾

☐

 ql-cf-templates-1574788327-3ebb6fa7cc4043e1-us-west-2

☐

 qls-10318500-8757d1ad7ae8e456-s3bucket-14smam9k1xmh5

AWS Management Console

AWS services

Find Services

You can enter names, keywords or acronyms.

▼ Recently visited services



Resource Groups ▾

user-1 @ 8113-8144-1480 ▴

Launch Instance ▾

Connect

Actions ▾

<input type="checkbox"/>	Name ▾	Instance ID ▴	Instance Type ▾	Availability Zone ▾	Instance State ▾	Status Checks ▾	Alarm Status	Public DNS (IPv4)
An error occurred fetching instance data: You are not authorized to perform this operation.								

IAM User:
user-1

Account:
8113-8144-1480

My Account

My Organization

My Service Quotas

My Billing Dashboard

Orders and Invoices

My Security Credentials

Switch Role

Sign Out



Account ID or alias

811381441480

IAM user name

user-2

Password

.....

Sign In

[Sign-in using root account credentials](#)

[Forgot password?](#)

Name	Instance ID	Instance Type	Availability Zone	Instance State	Status Checks	Alarm Status	Public DNS (IPv4)	IPv4 Public IP	IPv6
	i-0c37332068e7f2969	t2.micro	us-west-2a	running	2/2 checks ...	None	ec2-34-215-199-132.us...	34.215.199.132	-

Stop Instances

Are you sure you want to stop these instances?

- i-0c37332068e7f2969



Note that when your instances are stopped:

- Any data on the ephemeral storage of your instances will be lost.



Error stopping instances

You are not authorized to perform this operation. Encoded authorization failure message:

B0GJKaKw0YDKfoo8zdlGiYd7LbXzfPEupLkHMsp6gaZ2u43q-2U96-
QIV7HAIiMPeZbDxFC2IHizoQEAgn2jY97lySuaOI5P8a6uNttonmfD3LBzzL6omDD5_yEoWBU2gbH2hUImPO_Ub3kCQA4gh213
Cz3oykboJxZM7NKTj-24lrvxqPzuEhMMqx7nPenlG5UY6y_74fVcbFbNML77uKGK-c2Bfr1UuQfp-
AzotaBxJ2GlpA__lzywCznwsqmSPODbGseqLpIHIOZ2UVcMeJCxr1dKbjhTCDq77X4qsizJH93PSJluvhTFcpbcCNMfc2M271Hq
CJajWzul852eL0JNSITqpXx_txoTIAZHRp0D1n7cujgKdhzQiTv08GDKXu4NcsxGpvmofvAsf9a4nRxujzelLCY_Wjs-
gnBgwk992_4OHBmKy0QvhErkXdv8s6fgEWGdCTRFFNndapmIpVvTSR0xc-
i0Ooif4My1na6Pck7Mzb1CvYDBnR6BJyJcvlsxYc19KFj6BGPRQ2OeCHkXv03iWm6dSVjfmKopsUftvdTerHQ78q7OFvc-
KHoeceOJZ2ym4bQ6sOqi-
PcP2szYVhvbvIcaoaI9RvvYBtlpJeXNJJu1SONpy46HXj8U5No0QIZYRYcU30c_DnB69fVeTwoLodPd4KBYSSM1h3CQELPN8Au8
DxDc6Tp2xmwBxqwPjGnz0A1OaqSU2sMmLajjrNklrjmoMrJhEcbB7KckB7YQD7Vrdn54vRiCxHmjvBPTSJ1hbHwyN_Nnti2eOnT
UXxm02s2UzCrKjwrp9Ee_yjbzg_I2xEdJPO1k4E8C4m4WJfP0U7WlzmC3Fwz_1Hg

Cancel

Yes, Stop

S3 buckets



Search for buckets



Create bucket

Edit public access settings

Empty

Delete



Error

Access Denied




811381441480

user-3

.....

Sign-in using root account credentials

[Forgot password?](#)



The screenshot shows the AWS Management Console interface for an EC2 instance. At the top, there is a search bar with the text "Filter by tags and attributes or search by keyword". Below this, a table lists EC2 instances. The first instance is highlighted in blue, showing its ID "i-0c37332068e7f2969", type "t2.micro", and status "2/2 checks ...". A context menu is open over this instance, displaying several actions: "Connect", "Get Windows Password", "Create Template From Instance", "Launch More Like This", "Instance State" (with a right-pointing arrow), "Instance Settings" (with a right-pointing arrow), "Image" (with a right-pointing arrow), "Networking" (with a right-pointing arrow), "CloudWatch Monitoring" (with a right-pointing arrow), "Start", "Stop" (in orange), "Stop - Hibernate", "Reboot", and "Terminate".

	Name	Instance ID	Instance Type	Availability Zone	Instance State	Status Checks
		i-0c37332068e7f2969	t2.micro			2/2 checks ...

- Connect
- Get Windows Password
- Create Template From Instance
- Launch More Like This
- Instance State
- Instance Settings
- Image
- Networking
- CloudWatch Monitoring
- Start
- Stop
- Stop - Hibernate
- Reboot
- Terminate