



lab



lab title

**AWS Identity and Access Management (IAM)
V1.00**



Course title

**BackSpace Academy
AWS Certified Associate**



Table of Contents

Contents

Table of Contents.....	1
About the Lab	2
Creating an IAM User.....	3
Creating an IAM Group	6
Adding a User to a Group	7
Creating an Account Alias	9
Clean Up.....	10

About the Lab

Please note that not all AWS services are supported in all regions. Please use the US-East-1 (North Virginia) region for this lab.

These lab notes are to support the hands on instructional videos of the Identity and Access Management (IAM) section of the AWS Certified Associate Course.

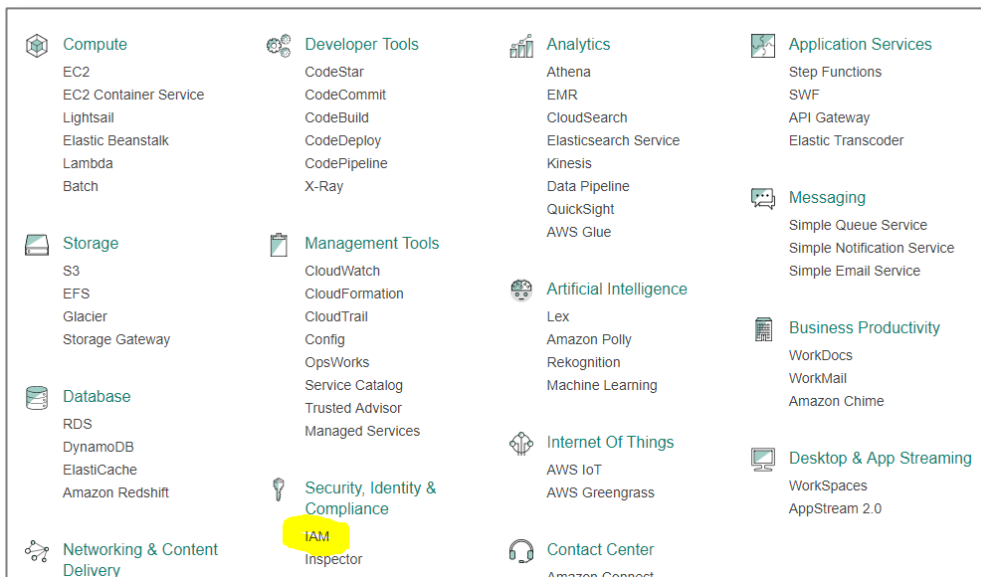
Please note that AWS services change on a weekly basis and it is extremely important you check the version number on this document to ensure you have the latest version with any updates or corrections.

Creating an IAM User

In this section, we will use the Identity and Access Management (IAM) service to create a user with console access and programmatic access.

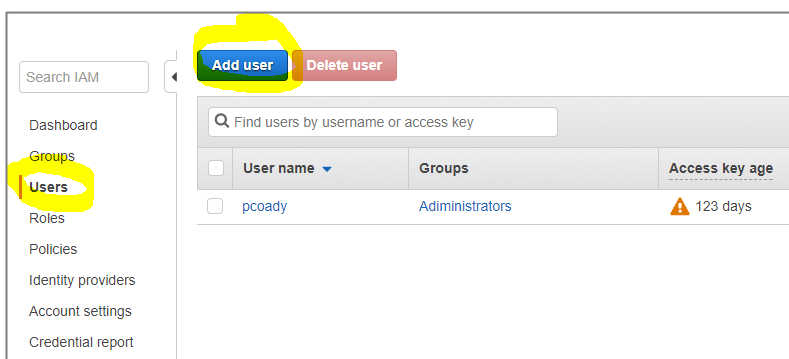
From the AWS console click “Services”

Select “IAM” from the Security, Identity & Compliance services.



Select “Users”

Click “Add user”



Give the user a name

Add user

1 Details 2 Permissions 3 Review 4 Complete

Set user details

You can add multiple users at once with the same access type and permissions. [Learn more](#)

User name* test-user

+ Add another user

Check “Programmatic access”

Check “AWS Management Console access”

Select AWS access type

Select how these users will access AWS. Access keys and autogenerated passwords are provided in the last step. [Learn more](#)

Access type* ☒ **Programmatic access**
Enables an **access key ID** and **secret access key** for the AWS API, CLI, SDK, and other development tools.

☒ **AWS Management Console access**
Enables a **password** that allows users to sign-in to the AWS Management Console.

Console password* ☒ Autogenerated password
☐ Custom password

Require password reset ☒ User must create a new password at next sign-in
Users automatically get the `IAMUserChangePassword` policy to allow them to change their own password.

* Required

Cancel **Next: Permissions**


We won't create any permissions for the user at this point.


Click “Next Review”


Add user

1 Details 2 Permissions 3 Review 4 Complete

Set permissions for test-user

 Add user to group

 Copy permissions from existing user

 Attach existing policies directly

Add user to an existing group or create a new one. Using groups is a best-practice way to manage user's permissions by job functions. [Learn more](#)

Create group Refresh

Cancel Previous **Next: Review**

Click "Create user"

Add user

1 Details 2 Permissions 3 **Review** 4 Complete

Review

Review your choices. After you create the user, you can view and download the autogenerated password and access key.

User details

User name	test-user
AWS access type	Programmatic access and AWS Management Console access
Console password type	Autogenerated
Require password reset	Yes

Permissions summary

The user shown above will be added to the following groups.

Type	Name
Managed policy	IAMUserChangePassword

Cancel Previous **Create user**

Download the csv file containing the user credentials (access key and secret access key) to a safe location.

You will need this for access using the Command Line Interface (CLI) later in the course.

Add user

1 Details 2 Permissions 3 Review 4 **Complete**

Success

You successfully created the users shown below. You can view and download user security credentials. You can also email users instructions for signing in to the AWS Management Console. This is the last time these credentials will be available to download. However, you can create new credentials at any time.

Users with AWS Management Console access can sign-in at: <https://backspace-academy.signin.aws.amazon.com/console>

Download .csv

	User	Access key ID	Secret access key	Password	Email login instructions
▶	test-user	AKIAJZGZ6UMOZT3U5V6Q	***** Show	***** Show	Send email ↗

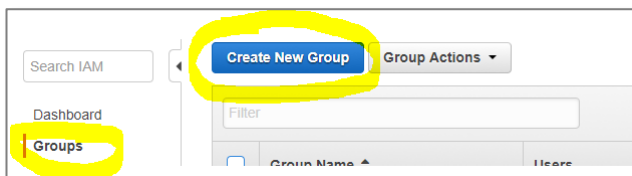
Close

Creating an IAM Group

In this section, we will use the Identity and Access Management (IAM) service to create a group with administrator access. We will also add our newly created user to the group.

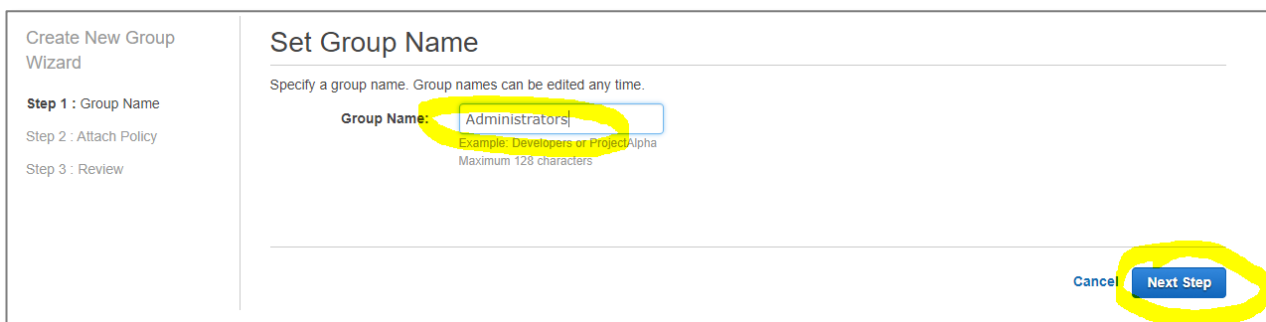
Select “Group”

Click “Create New Group”



Give the group a name

Click “Next Step”



Select the “AdministratorAccess” policy

Click “Next Step”

Create New Group Wizard

Step 1 : Group Name

Step 2 : Attach Policy

Step 3 : Review

Attach Policy

Select one or more policies to attach. Each group can have up to 10 policies attached.

Filter: Policy Type Showing 291 results

	Policy Name	Attached Entities	Creation Time	Edited Time
<input checked="" type="checkbox"/>	AdministratorAccess	1	2015-02-07 05:39 UTC+1100	2015-02-07 05:39 UTC+...
<input type="checkbox"/>	AmazonDMScloudWatchLo...	1	2016-01-08 10:44 UTC+1100	2016-01-08 10:44 UTC+...
<input type="checkbox"/>	AmazonDMSVPCManagem...	1	2015-11-19 03:33 UTC+1100	2016-05-24 02:29 UTC+...
<input type="checkbox"/>	AmazonRDSEnhancedMoni...	1	2015-11-12 06:58 UTC+1100	2015-11-12 06:58 UTC+...
<input type="checkbox"/>	AWSCodeDeployRole	1	2015-05-05 04:05 UTC+1100	2017-09-12 05:09 UTC+...
<input type="checkbox"/>	AWSCodeStarServiceRole	1	2017-04-20 01:20 UTC+1100	2017-07-14 05:53 UTC+...
<input type="checkbox"/>	AWSElasticBeanstalkEnhan...	1	2016-02-09 10:17 UTC+1100	2016-08-23 06:28 UTC+...
<input type="checkbox"/>	AWSElasticBeanstalkMultic...	1	2016-02-09 10:15 UTC+1100	2016-06-07 09:45 UTC+...
<input type="checkbox"/>	AWSElasticBeanstalkService	1	2016-04-12 06:27 UTC+1100	2017-06-22 02:49 UTC+...

Cancel Previous **Next Step**

Click "Create Group"

Create New Group Wizard

Step 1 : Group Name

Step 2 : Attach Policy

Step 3 : Review

Review

Review the following information, then click **Create Group** to proceed.

Group Name	Administrators	Edit Group Name
	arn:aws:iam::aws:policy/AdministratorAccess	Edit Policies

Cancel Previous **Create Group**

The Group has been created

Search IAM

Create New Group Group Actions

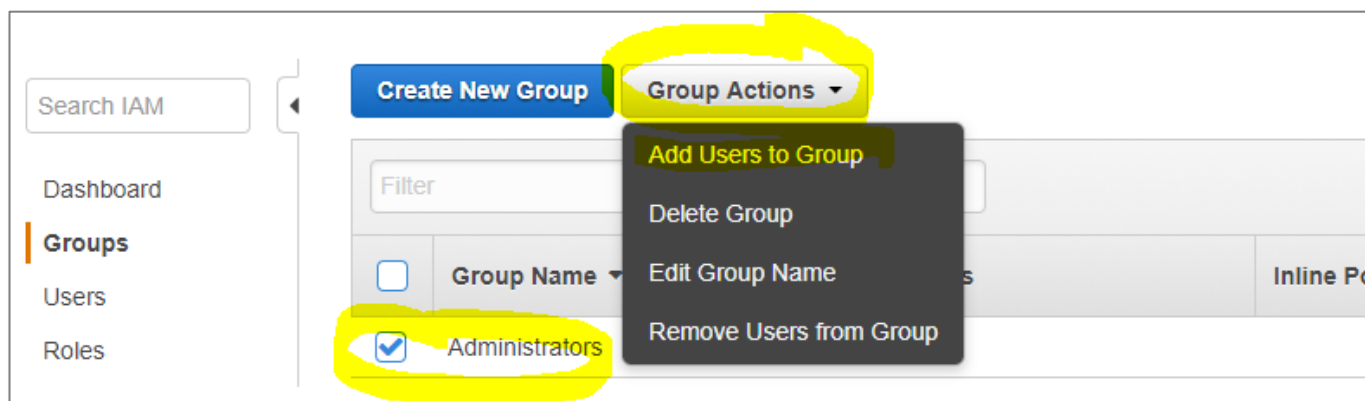
Filter

Group Name	Users	Inline Policy
<input checked="" type="checkbox"/> Administrators	0	

Adding a User to a Group

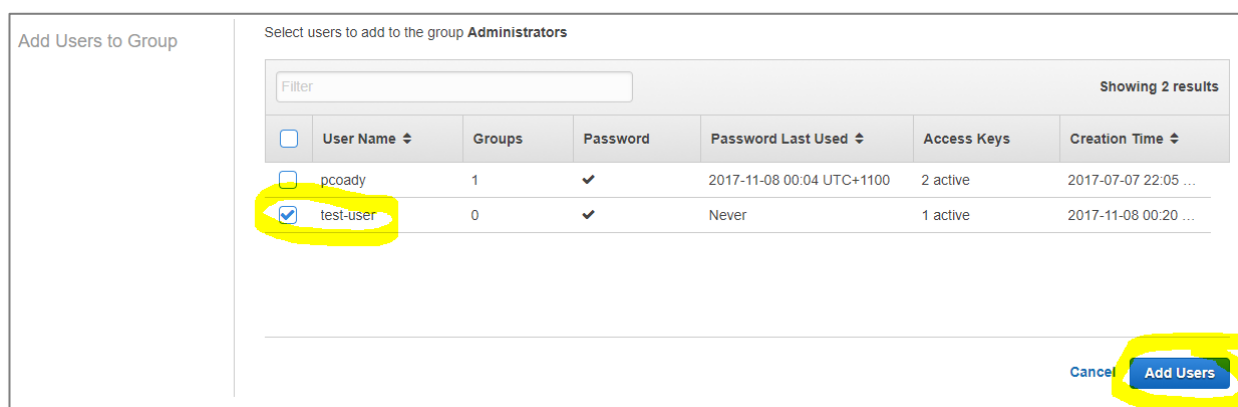
Select the group

Click "Group Actions" – "Add users to group"



Select the newly created user

Click "Add Users"

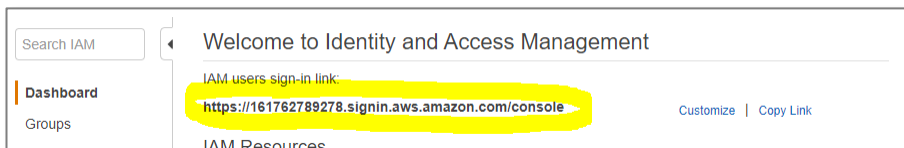


Creating an Account Alias

In this section, we will use the Identity and Access Management (IAM) service to create an alias for our account. This will simplify the login process for our users.

Go to the IAM Dashboard

Here you can see the login url requires the account number.



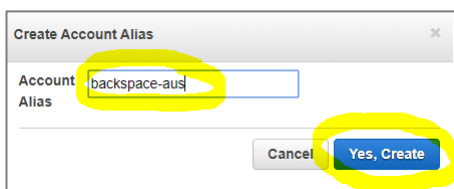
Creating an account alias makes it easier for users to remember the account to login to.

Click "Customize"

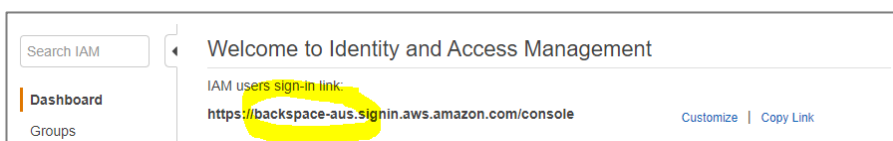


Create a unique alias name

Click "Yes, Create"



We can now use the account alias for logging in.



Clean Up

IAM is a free service so there is no need to clean up to avoid a bill.