AWS - IAM



IAM - Identity and Access Management

- You use IAM to control who is authenticated (signed in) and authorized (has permissions) to use resources.
- > IAM is service that enables you to manage users and group permission in AWS.

Why we go for IAM in AWS

- To avoid a security and logistical headache.
- IAM allows you to limit access as needed and it can create multiple users with individual security credentials and permission.
- It is used to free in AWS service. (no cost for this)
- Using the root user only to create your first IAM user.
- Language is used to create IAM in AWS is JSON,CLI

Identity and Access Management (IAM)

- Group
- User
- Policies
- ➢ Roles
- > Identity provider
- Account settings
- Credentials report

Group:

- > An IAM group is a collection of IAM users.
- Groups let you specify permissions for multiple users
- Any user in that group automatically has the permissions that are assigned to the group.

User:



- IAM enables you to securely control access to AWS services and resources for your users.
- You can create and manage AWS users and groups and use permissions to allow and deny their permissions to AWS resources.

Policies:

- Permissions in the policies determine whether the request is allowed or denied.
- > In AWS have already predefined policies
- We can create policies of our own e.g.: write, read & list

Roles:

- > IAM entity that defines a set of permissions for making AWS service requests.
- > IAM roles are not associated with a specific user or group.

Identity provider:

> Identity provider offers user authentication as a service.

Account settings:

It has the Password policy & Security Token Service (STS) and endpoints with region.

Credentials report:

In this report have lists of all users in your account and the status of their various credentials, including passwords, access keys, and MFA devices.

IAM Resources:

- > User
- > Groups
- > Roles
- > Identity provider
- > Customer managed policies



Customer managed policies:

- https://xxxxxxxx.signin.aws.amazon.com/console
- It can be changed like this
- <u>https://test</u> team.signin.aws.amazon.com/console

Authentication:

- > Two type of authentication in IAM(user logging & MFA)
- > In another method we can use the access key and secret key

Multi-factor authentication (MFA):

- In this we have three ways to secure (Virtual MFA device, U2F security key, Other hardware MFA device)
- Virtual MFA device (It is used to scan the Google authentication app for more security purpose .In this every 30sec create one new code)
- U2F security key (If you already use a U2F security key with other services, and it has an AWS supported configuration (for example, the Yubikey 4 or 5 from Yubico), you can also use it with AWS)
- Other hardware MFA device (In the Google we have seen the lock symbol in this we can see the certificate for the organisation.



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Manage MFA device

Choose the type of MFA device to assign:

- Virtual MFA device Authenticator app installed on your mobile device or computer
- U2F security key

YubiKey or any other compliant U2F device

Other hardware MFA device Gemalto token

With 2-step verification, whenever you sign in to your Google Account you will need your password and a code that this app will generate.

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Scan barcode

Manual entry

For more information about supported MFA devices, see AWS Multi-Factor Authentication



b or USB Security Key	
used instead of a smartphone or tablet or as a backup	
equire you to authenticate with your MFA device.	
sly registered device that isn't working? Resynchronize	Register Token/Fob or USB Security Key Resynchronize
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	b or USB Security Key used instead of a smartphone or tablet or as a backup require you to authenticate with your MFA device.

Access key and secret key

- > Access key & secret key have for the both root user and user.
- For root users have the full permission for everything and user has the set of permission for them.

In IAM we should follow these steps:

- Group
- > User
- Policies
- > Widely role in security concepts

Task 1:

- Now create the groups
- Create the user and attach to the group



- Now create your own policies to s3 (list, read)
- Then resources (all specific)
- Now go and check the with Customer managed using that link httpd//: team.signin.aws.amazon.com/console
- > Only we can see the S3 service and other services we can't use it

Task 2:

- Now create the groups
- Create the user and attach to the group
- Now create your own policies to EC2 instance (full access)
- Then resources(all specific)
- Now go and check the with Customer managed using that link httpd//: team.signin.aws.amazon.com/console
- > Only we can see the EC2 service and other service we can't use it

Task 3:

> If you lost your access key how can you login

Task 4 (service to service):

- > Now create the groups
- Create the user and attach to the group
- Now create your own policies to s3 (list, read)
- Then resources(all specific)
- Now create the role for s3
- Then create EC2 instance and attach the IAM role for s3
- Launch the instance using root user

Task 5:

For the IAM user, How can create own MFA authentication for the user

For Example:



Activity 1:

IAM users sign-in link customizable: Instead of the Account ID, the customer name can be updated.



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n keys	 Delete your root access keys Activate MFA on your root account Create individual IAM users Use groups to assign permissions Apply an IAM password policy 	* * * *	Additional information IAM best practices IAM documentation Web Identity Federation Playground Policy Simulator Videos, IAM release history and additional resources

Activity 2:

Group Creation: Click Create New Group

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Choose the policy related to the group by using the search tab, like ec2, S3 any services.

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Review the policy & create the Group.





Activity 3:

Creating User by clicking Add User.

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Add the user to the existing group or create a new group and add the user.

Services V Resource Groups V	۶.	🗘 Karthik Raja 👻	Global 👻 Support 👻
permissions for Tom			^
Add user to group dd user to an existing group or create a new one. Using group Create group Create group Create group Create group	Attach existing policies directly ups is a best-practice way to manage user's permissions by job	functions. Learn more	
Q Search		Showi	ing 1 result
Group 👻	Attached policies		
ec2admin	AmazonEC2FullAccess		

Review and create the user finally.

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aws	Services 🗸 Resource Group)5 v %			🗘 Karthik R	aja 🕶 Global 👻 S	Support 👻	
Add user			1	2	3	-4		
			Details	Permissions	Review	Complete		1
Review								I
Review your choices	s. After you create the user, you can	view and download the autogenerated password and access key.						1
User details								1
	User name	Tom						1
	AWS access type	Programmatic access and AWS Management Console access						1
	Console password type	Custom						
	Require password reset	No						1
Permissions su	mmary							I
The user shown abo	ove will be added to the following gro	ups.						1
Туре	Name							I
Group	ec2admin							
								1
					Cancel Previo	Create user		J
								Ŧ
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luser	0	2	3-4	
	Details	Permissions	Review Complete	
User	Access key ID	Secret access key	Email login instructions	
Tom	AKIAIPEU4Y74WPXV25QQ	********* Show	Send email 🗗	
			Close	

Collect the Access Key ID & Secret access key and keep it safe for rest of the activities.

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	a	ws	Services 🧹 Resource Groups 🤟 🔭		ل Karthil	k Raja ▼ Global ▼ Support ▼
,	Add	l u	ser	Details	2 3 Permissions Review	Complete
	•	0.4/10	Success You successfully created the users shown below. You can view and download user security cre time these credentials will be available to download. However, you can create new credentials Users with AWS Management Console access can sign-in at: https://citibank.signin.aws.amazc	dentials. You can also email users instru at any time. In com/console	ctions for signing in to the AWS Management Co	insole. This is the last
l	i≊ Di	own	10au .csv			
			User	Access key ID	Secret access key	Email login instructions
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Activity 4:

Policies are already available have set of permissions, that to be attached for group/user.

We can create an own Policy too, Click Create Policy.

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arch IAM	Create	Policy actions				C 0
ashboard	Filter: A	All ~ Q Search			She	owing 345 resul
oups		Policy name 👻	Туре	Attachments -	Description	
les		AdministratorAccess	Job function	0	Provides full access to AWS services and resources.	
olicies		AlexaForBusinessDeviceSetup	AWS managed	0	Provide device setup access to AlexaForBusiness services	
entity providers		AlexaForBusinessFullAccess	AWS managed	0	Grants full access to AlexaForBusiness resources and access to related AWS Se	rvices
count settings		AlexaForBusinessGatewayExecution	AWS managed	0	Provide gateway execution access to AlexaForBusiness services	
edential report		AlexaForBusinessReadOnlyAccess	AWS managed	0	Provide read only access to AlexaForBusiness services	
		📫 AmazonAPIGatewayAdministrator	AWS managed	0	Provides full access to create/edit/delete APIs in Amazon API Gateway via the A	WS Manage
cryption keys		📫 AmazonAPIGatewayInvokeFullAccess	AWS managed	0	Provides full access to invoke APIs in Amazon API Gateway.	
		AmazonAPIGatewayPushToCloudWatch	AWS managed	0	Allows API Gateway to push logs to user's account.	
		AmazonAppStreamFullAccess	AWS managed	0	Provides full access to Amazon AppStream via the AWS Management Console.	
		AmazonAppStreamReadOnlyAccess	AWS managed	0	Provides read only access to Amazon AppStream via the AWS Management Cor	nsole.
		AmazonAppStreamServiceAccess	AWS managed	0	Default policy for Amazon AppStream service role.	
		🚺 AmazonAthenaFullAccess	AWS managed	0	Provide full access to Amazon Athena and scoped access to the dependencies n	eeded to en
		AmazonChimeFullAccess	AWS managed	0	Provides full access to Amazon Chime Admin Console via the AWS Management	t Console.
		🚺 AmazonChimeReadOnly	AWS managed	0	Provides read only access to Amazon Chime Admin Console via the AWS Manag	gement Cons
		📫 AmazonChimel IserMananement	AWS managed	0	Provides user management access to Amazon Chime Admin Console via the AM	/S Managem

Search the service and select a portion of access that needs to be provided as permission.

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aws	Services 🗸 Resource Groups 🗸	*	🏠 Karthik Raja 👻 Global 👻 Support :	~
Expand a	all Collapse all			*
▼ \$3	(1 action)		Clone Remove	
	Service *	53		
	Actions * close	Specify the actions allowed in S3 [®] Q. Filter actions Manual actions (add actions)	Switch to deny permissions	I.
		 All S3 actions (s3⁺) Access level groups List (1 selected) 	Expand all Collapse all	
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Name the policy, review and create it.

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Review policy				
Before you create this policy, pr	rovide the required information an	d review this policy.		
Name*	s3limitedarces			
	Maximum 64 characters. Use alphan	umeric and '+=. @ ' characters.		
	mountain o'r onalaetero, ooo alphain			
Description				*
				-
	Maximum 1000 abarratora Lisa alab	numeric and 'up @ ' sharestar		11
	maximum roop characters, ose april	anamono ana '-,ge_ enalastera.		
Summary				
Q Filter				
Service 👻	Access level	Resource	Request condition	
Allow (1 of 125 services)	Show remaining 124			
\$3	Limited: List		None	
	Limtou. Liot	741163041663	None	•

You can check under Customer managed section for the created policy.

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Search IAM	s3limitedacces has been created.			×
Dashboard Groups	Create policy Policy actions			
Users	Filter: All V Q Search			Showing 346 results
Roles	All	Туре	Attachments •	Description
Identity providers	AWS managed	lob function	0	Provides full accors to AWS convisos and recourses
Account settings	Job function	AW/S managed	0	Provide davice setun access to Alexa ForBusiness services
Credential report	Customer managed sDeviceSetup	AWS managed	0	Grante full access to AlexaForBusiness recourses and access to related AWS Services
		AWS managed	0	Provide nateway execution access to AlexaForBusiness services
Encryption keys		AWS managed	0	Provide read only access to AlexaForBusiness services
	AmazonAPIGatewayAdministrator	AWS managed	0	Provides full access to create/edit/delete APIs in Amazon API Gateway via the AWS Manao
	AmazonAPIGatewayInvokeFullAccess	AWS managed	0	Provides full access to invoke APIs in Amazon API Gateway.
	AmazonAPIGatewayPushToCloudWatch	AWS managed	0	Allows API Gateway to push logs to user's account.
	AmazonAppStreamFullAccess	AWS managed	0	Provides full access to Amazon AppStream via the AWS Management Console.
	AmazonAppStreamReadOnlyAccess	AWS managed	0	Provides read only access to Amazon AppStream via the AWS Management Console.
	AmazonAppStreamServiceAccess	AWS managed	0	Default policy for Amazon AppStream service role.
	AmazonAthenaFullAccess	AWS managed	0	Provide full access to Amazon Athena and scoped access to the dependencies needed to e
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Search IAM	 s3limitedacces has been created. 			×
Dashboard Groups	Create policy Policy actions -			

Dashboard Groups Users Roles	Create policy Policy actions	Showing 5 results	
Policies	Policy name 🔻	Type Attachments - Description	
Identity providers	ec2-list-access	Customer managed 0	
Account settings	s3-list-access	Customer managed 1	
Credential report	Simitedacces	Customer managed 0	
	support-team	Customer managed 0	
Encryption keys	► techsupport	Customer managed 0	

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Activity 5:

To create the new role by clicking Create Role.



Choose any AWS Resource for allocating Role level mapping for it, Choosing S3.

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	Create role			1	_2	-3		
	Auto Scaling Batch CloudFormation CloudHSM CloudWatch Events CodeBuild CodeDeploy Config	DeepLens Directory Service DynamoDB EC2 EMR ElastiCache Elastic Beanstalk Elastic Container Service	Greengrass GuardDuty Inspector IoT Kinesis Lambda Lex Machine Learning	Trust CPUSTIONS Redshift Rekognition S3 SMS SNS SWF SageMaker	Permissions	Review y		
	DMS Select your use cas EC2 Allows EC2 instances to	Elastic Transcoder e call AWS services on your beha	MediaConvert	Service Catalog		_		
	EC2 - Scheduled Instan Allows EC2 Scheduled I	nces nstances to manage instances of	on your behalf.			_		
	EC2 - Spot Fleet Allows EC2 Spot Fleet to	o launch and manage spot fleet	instances on your behalf.					
	* Required				Cancel Nex	t: Permissions		



Choosing the customer managed policy, which we created in the earlier activity.

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	Create role	1	2 3	
		Trust	Permissions Review	
	Attach permissions policies			
	Choose one or more policies to attach to your ne	ew role.		
	Create policy 2 Refresh			
	Filter: Customer managed v Q Search		Showing 5 results	
	Policy name 👻	Attachments - Description		
	ec2-list-access	0		
	s3-list-access	D		
	Simitedacces	0		
	support-team	0		
	techsupport	0		
	* Required		Cancel Previous Next: Review	
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Review and create it with a name for reference to choose this IAM ROLE.

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aws Services	🗸 Resource Groups 🧹 🛠		🗘 Karthik Raja 👻 Global 👻 Support 👻
	Create role	1 2	3
	Review	Trust Permissions	Review
	Dravide the required information below.	nd review this role before you create it	
	Provide the required information below a	nd review this role before you create it.	
	Role name*	ec2_s3_list_role	
		Maximum 64 characters. Use alphanumeric and '+=,.@' characters.	
	Role description	ec2_s3_list_role	*
			*
		·	
	-		
	Irusted entities	AWS service: ec2.amazonaws.com	
	Policies		
	* Required	Cancel Previou	IS Create role
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Search IAM	Create role Delete role				2 0 0
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Users	Role name 👻	Description	Tru	sted entities	
Roles	ec2_s3_list_role	ec2_s3_list_role	AW	'S service: ec2	
Identity providers Account settings Credential report					Ţ
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IAM Role Test scenario:

Create an EC2 with IAM Role and attached to it, so that after login in into the EC2 server it will not expect.

- "AWS configuration" to list the S3 listing activity [for which the role has been created].
- > Also No access/secret key is required for setting the configuration.

Mapping the created the Role for the Creating EC2:

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1. Choose AMI 2. Choose Instance Type	3. Configure Instance 4. Add Storage 5. Add Tags 6. Configure Security Group 7. Review	
Step 3: Configure Instan	nce Details	
Configure the instance to suit your require	ements. You can launch multiple instances from the same AMI, request Spot instances to take advantage of the lower pricing, assign an access management role to the instance, and more.	A
Number of instances	Launch into Auto Scaling Group ()	
Purchasing option	(i) 🛛 Request Spot instances	
Network	(i) vpc-01a3c668 (default) ▼ C Create new VPC	
Subnet	INo preference (default subnet in any Availability Zon Create new subnet	
Auto-assign Public IP	() Use subnet setting (Enable)	
IAM role	(i) ec2_s3_list_role ▼ C Create new IAM role None	
Shutdown behavior	() ec2_s3_list_role	
Enable termination protection	1 Protect against accidental termination	
Monitoring	Decode CloudWatch detailed monitoring Additional charges apply.	
Tenancy	Shared - Run a shared hardware instance Additional charges will apply for dedicated tenancy.	
T2 Unlimited	Constant of the second se	•
	Cancel Previous Review and Launch Next: Add St	orage
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Once login into the EC2 and check with the S3 Bucket Listing command – AWS S3 Is

子 root@ip-172-31-31-174:~
login as: ec2-user
Authenticating with public key "imported-openssh-key"
Last login: Thu Dec 21 16:51:25 2017 from 49.207.190.68
_ / Amazon Linux AMI
https://aws.amazon.com/amazon-linux-ami/2017.09-release-notes/
No packages needed for security; 1 packages available
Run "sudo yum update" to apply all updates.
[ec2-user@ip-172-31-31-174 ~]\$ sudo su - root
Last login: Thu Dec 21 16:52:00 UTC 2017 on pts/0
[root@ip-172-31-31-174 ~]# aws s3 ls
2017-10-29 08:10:04 aws20171029
2017-11-20 06:05:25 aws20171120
2017-11-22 03:03:10 aws20171122
2017-11-27 10:46:16 aws20171127
2017-11-29 01:27:17 aws20171129
2017-12-01 14:52:00 aws20171201
2017-12-02 12:02:29 aws20171202
[root@ip-172-31-31-174 ~]#

Compare the same by creating an EC2 without attaching the role, you can see the difference.

It will ask Access/Secret Key, etc.



🗗 root@ip-172-31-20-197:~

login as: ec2-user Authenticating with public key "imported-openssh-key"

Amazon Linux AMI

https://aws.amazon.com/amazon-linux-ami/2017.09-release-notes/ No packages needed for security; 1 packages available Run "sudo yum update" to apply all updates. [ec2-user@ip-172-31-20-197 ~]\$ sudo su - root [root@ip-172-31-20-197 ~]\$ aws s3 ls Unable to locate credentials. You can configure credentials by running "aws configure". [root@ip-172-31-20-197 ~]\$ aws configure AWS Access Key ID [None]: AKIAIPEU4Y74WPXV25QQ AWS Secret Access Key [None]: