

What is Access Management?

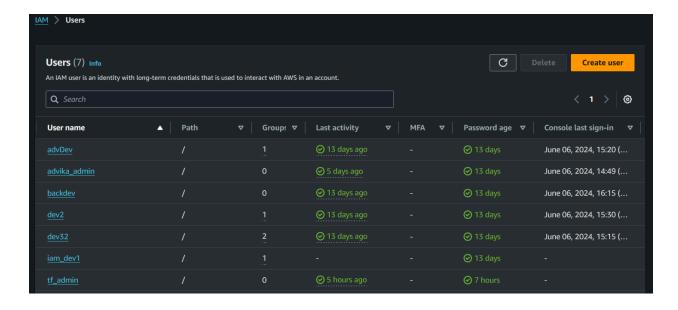
Access Management: Each and every user/role will have specific rights assigned which is done by policies which are in turn given by admins

IAM is a service using which I can securely control access to AWS resources(authentication) for your users(authorization)

Components of IAM:

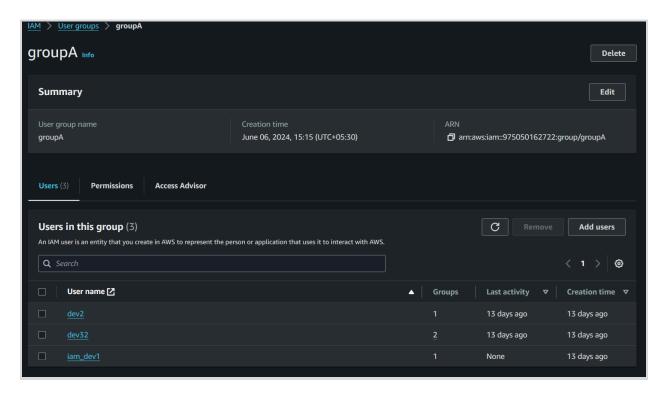
Users	Groups	Roles	Policies
The acc that you have created is the root acc	To group people with identical rights and access	Roles are assigned to applications, users to people	A document that explicitly lists the permissions you want to assign to a user, group, role etc
Access type is of 2 types: Programmatic access and AWS Management Console access		Defines a set of permissions for making AWS service requests	Policy is written in a json file via a code
Programmatic access- interaction with AWS APIs using different development tools, you get access keys		Roles can be assigned to any AWS service, has to be attached to a zero instance	If you add allow and deny policies both, it will prefer the one with the least number of permissions allowed
Access key ID: generated, can be viewed Secret Access Key: can only be viewed at the time of the creation of the user, so save it		Example: ec2 instance is now configured to interact with s3 in a particular acc, any application deployed in the given ec2 instance will be able to interact w S3	
Different login page for IAM users			

Created different users:

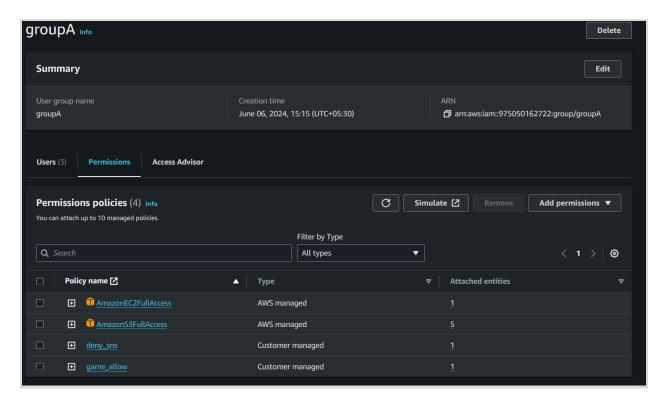


For better security, it is recommended to not create access keys for users

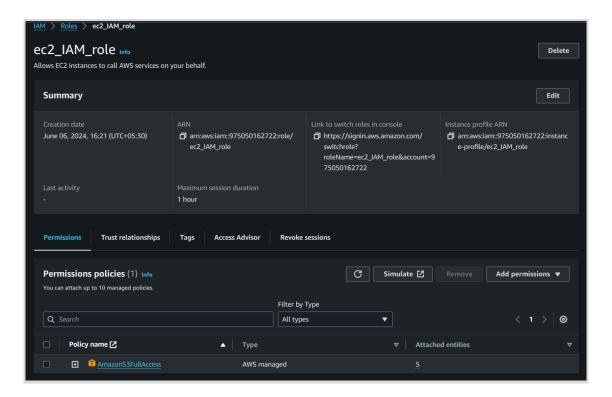
Created 2 User Groups: groupA and groupM

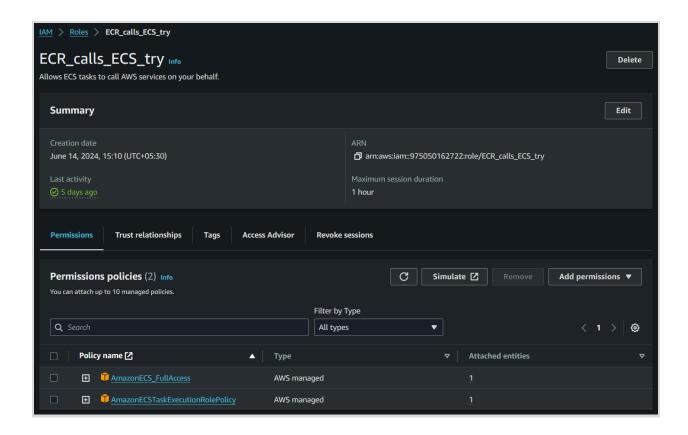


Attached policies by groups, both AWS created and self-created:



Created IAM Roles:





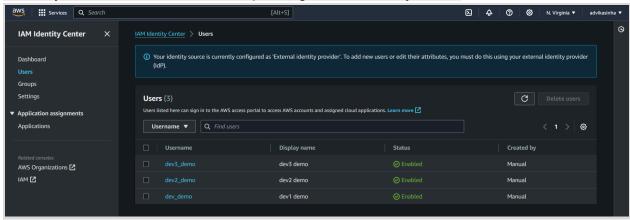
Encountered an API error in EC2 resources since I granted it permissions for S3: You are not authorized to perform this operation. not authorized to perform because no identity-based policy allows the ec2:DescribeAddresses action

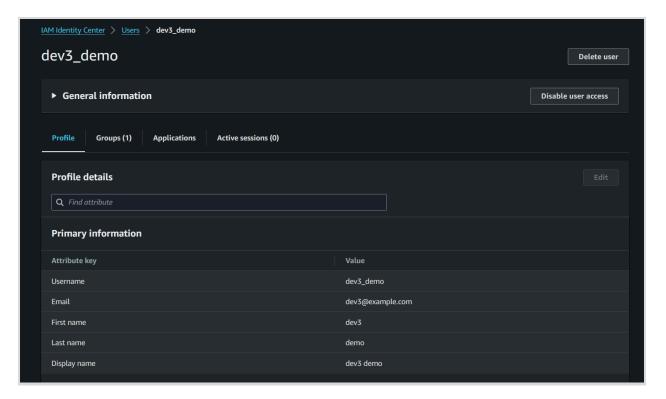
IAM IDENTITY CENTER USER:

Not tied to a single AWS account and they gain access to AWS accounts by assuming an IAM role in the chosen AWS account

Identity center defined for IAM to specify user details

Manually created IAM Users and Groups using the IAM Identity Center





Making Groups of Users

