

IAM Best Practices for Security





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Why Do We Need Access Management?

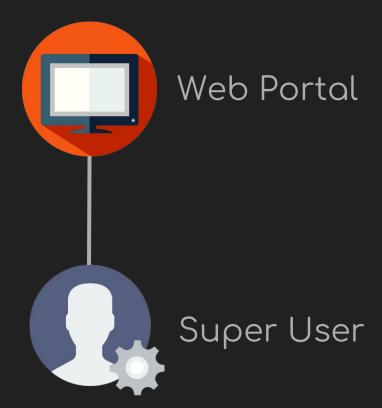


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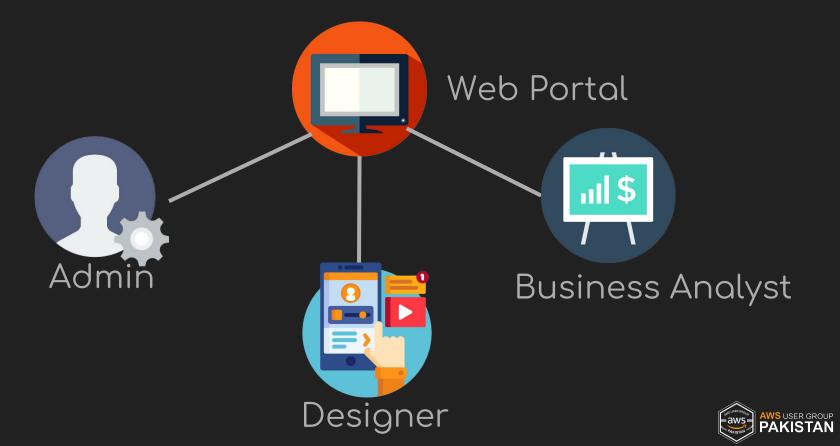


Why Do We Need Access Management?





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What is AWS IAM?





What is AWS IAM?

AWS Identity and Access Management (IAM) is a service that helps you securely control access to AWS resources for your users. It is used to create accounts and manage authorization on AWS resources.

Components of AWS IAM

There are four main components of AWS IAM

- USER
- GROUP
- ROLE
- POLICY



User

Group

Role

Policy

WHO IS THAT USER?



User

Group

Role

Policy

Using IAM, you can create and manage AWS users, and their permissions to allow and deny their access to AWS resources.



User

Group

Role

Policy

An IAM group is a collection of IAM users. You can use groups to specify permissions for a collection of users, which can make those permissions easier to manage for those users

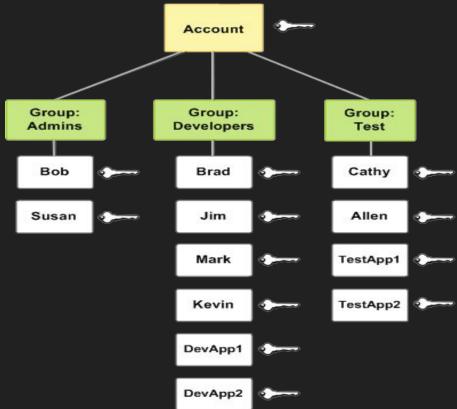


User

Group

Role

Policy





User

Group

Role

Policy

An IAM role is an IAM entity that defines the set of permissions for making AWS service request. It determine what the identity can and cannot do in AWS.



User

Group

Role

Policy

To assign permissions to a user, group, role or resource you create a policy which is a document that lists permissions.



Best Practices For Security



Never use your root account for day to day tasks instead creating an admin user for yourself



According to the Identity Theft Resource Center

1,093

Breaches occurred last year

According to the Identity Theft Resource Center

40%

Increase from 2016

Lock away your AWS account root user access keys



Grant least privileges



Use roles to delegate permissions



Use roles for applications that run on Amazon EC2 instances



Rotate Credentials Regularly



Monitor Activity in Your AWS Account





Thank you

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