

Understanding IAM users

Questions	Notes
IAM	<ul style="list-style-type: none">• IAM allows you to control access to your aws services and resources• help you secure your cloud resources• you define who has access• you define what they can do• a free global service
Identities Vs Access	<ul style="list-style-type: none">• Identity: who can access your resources:<ul style="list-style-type: none">◦ root user◦ Individual users◦ Groups◦ Roles• Access : what resources they can access:<ul style="list-style-type: none">◦ Policies◦ aws managed policies◦ Customer managed policies◦ Permissions boundaries
users	<ul style="list-style-type: none">• Users are entities you create in IAM to represent the person or application needing to access your aws resources• what only can the root user do:<ul style="list-style-type: none">◦ Close your account◦ Change email address◦ modify your support plan• Application:<ul style="list-style-type: none">◦ you can generate access keys for an application running on-premises that needs access to your cloud ressources
Groups	<ul style="list-style-type: none">• Administrators: Perform administrative tasks as such as creating new users• Developers: use compute and database services to build applications• Analyst : analysts run budget and usage reports• Key takeaways:<ul style="list-style-type: none">◦ used to group users that perform similar tasks◦ Access permissions apply to all members of the group◦ Access is assigned using policies and roles• groups very useful : Let's say there's a user that's in a group and they actually leave, then all you have to do is remove them from the group in order to remove their access permission• Groups in the real world:<ul style="list-style-type: none">◦ Apply the same access controls to a large set of users: Apply the same access permissions to more than one user at once
Things to remember to the exam	<ul style="list-style-type: none">• Users and groups: the difference between the two• Principle of least privilege• Root user task• Real world use cases for IAM
security groups and IAM groups	<ul style="list-style-type: none">• Do not confuse security groups for EC2 with IAM groups .EC2 security groups act as firewalls , while IAM groups are collections of users