

# Assignment Interview question

## 1. What is the need of IAM?

IAM, or Identity and Access Management, is like the gatekeeper for your digital stuff in the cloud. It helps you decide who gets to go in, what they can do, and what they can't touch. So, if you have pictures, documents, or anything stored online, IAM makes sure only the right people can access them and that they only do the things you want them to. It's like having a bouncer for your digital space, keeping it safe and organized.

## 2. If i am a non tech person, how will you define policies in IAM.

IAM policies are like setting digital rules for your team. It's akin to giving specific access keys to different colleagues based on their roles. Imagine you have a house with rooms—some accessible to family, others to friends. Similarly, policies help decide who can enter which 'digital room' in your online space. For example, your financial manager gets access to the 'financial room,' while your designer can enter the 'creative room.' This way, IAM policies ensure a secure and organized online environment, letting each team member do their job without accidentally stumbling into areas they shouldn't.

## 3. Please define a scenario in which you would like to create your on own IAM policy

In managing an e-commerce platform, a customized IAM policy proves essential. For instance, you can create a policy granting your development team permissions to modify website code and databases, while limiting access to sensitive customer data. Simultaneously, your customer support team may have a policy allowing access to customer information for issue resolution but restricting alterations to the website infrastructure. This tailored IAM policy optimizes security and operational efficiency by providing each team with precisely the permissions they need, preventing unauthorized access and potential mishandling of sensitive data.

## 4. Why do we prefer not using root account?

Avoiding the use of the root account is crucial for security. The root account holds unparalleled access, akin to a master key for all resources. Using it for daily operations poses a significant risk; if compromised, an attacker gains unrestricted control. Instead, employing IAM users with limited permissions enhances security by following the principle of least privilege. IAM users function like individual keys, granting specific access to designated areas, mitigating the potential fallout of a security breach. This approach ensures a more granular and secure access control system, minimizing the impact of unauthorized access to critical resources.

## 5. How to revoke policy for an IAM user?

To revoke a policy for an IAM user, access the AWS Management Console, navigate to IAM, and select the user. In the user's details, find the "Permissions" tab and click "Detach Policy." Choose the policy to revoke and confirm. This process is like taking away a specific key from someone without affecting their overall access. Alternatively, to modify permissions, select the user, click the "Add permissions" button, and adjust policy attachments. Regularly reviewing and updating policies ensures secure access management, aligning permissions with the user's evolving responsibilities while maintaining a least-privilege approach for optimal security.

## 6. Can a single IAM user be a part of multiple policy via group and root? how?

Yes, a single IAM user can be part of multiple policies through groups. Firstly, create different IAM policies specifying various access rules. Then, organize these policies into IAM groups based on roles or functions. Add the IAM user to multiple groups, allowing them to inherit the combined permissions of those groups. However, it's crucial to avoid relying on the root account for everyday tasks, as this presents security risks. Instead, use IAM users and groups to maintain a structured and secure access control model, enhancing manageability and reducing the likelihood of unintended access.