AWS IAM

AWS Identity and Access Management (IAM)

Cheat sheets, Practice Exams and Flash cards 👉 www.exampro.co/clf-c02
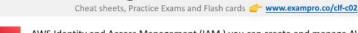
AWS Identity and Access Management (IAM) you can create and manage AWS users and groups, and use permissions to allow and deny their access to AWS resources.

IAM Policies — JSON documents which grant permissions for a specific user, group, or role to access services. Policies are attached to **IAM Identities**

IAM Permission — The API actions that can or cannot be performed. They are represented in the IAM Policy document

IAM Identities

IAM Users — End users who log into the console or interact with AWS resources programmatically or via clicking UI interfaces

IAM Groups — Group up your Users so they all share permission levels of the group eg. Administrators, Developers, Auditors

IAM Roles — Roles grant AWS resources permissions to specific AWS API actions Associate policies to a Role and then assign it to an AWS resource

8:59:52 / 14:17:51

IAM policies are written in JSON and contain the permission which determine what API actions are allowed or denied.

Version policy language version. 2012-10-17 is the latest version.

Statement container for the policy element you are allowed to have multiples

Sid (optional) a way of labeling your statements.

Effect Set whether the policy will Allow or Deny

Action list of actions that the policy allows or denies

Principal account, user, role, or federated user to which you would like to allow or deny access

Resource the resource to which the action(s) applies

Condition (optional) circumstances under which the policy grants permission

```
{
    "Version": "2012-10-17",
    "Statement": [{
        "Sid": "Deny-Barclay-S3-Access",
        "Effect": "Deny",
        "Action": "s3:*",
        "Principal": {"AWS": ["arn:aws:iam:123456789012:barclay"]},
        "Resource": "arn:aws:s3:::my-bucket"
    },{
        "Effect": "Allow",
        "Action": "iam:CreateServiceLinkedRole",
        "Resource": "*",
        "Condition": {
            "StringLike": {
                "iam:AWSServiceName": [
                    "rds.amazonaws.com",
                    "rds.application-autoscaling.amazonaws.com"
                ]
            }
        }
    }]
}
```

9:01:52 / 14:17:51