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- IAM Group = Collection of IAM Users.

- It is possible to attach multiple policies to the IAM uses of IAM Gusoup, Max = 10.

- You can add & remove policies to IAM user &

groups anytime.

- If you attach anytime any IAM user to IAM Group, IAM user individual permissions will not belost, Group level permissions will be inherited.
- An IAM user can be attached to multiple IAM coroups at the same time.
- For new IAM users by default there are not Policies to attached.
- X-IAM USET Groups are used to assign policies to bunch of IAM users at Same time.
- Policies contains fermissions.
- ** Policies / permissions are written in Json, Format
 - AWS has policies editor or policy genrator, these will help you to genrate Ison code Automatically.
 - * Managed folicies created & managed by AWS (Predefined Policies)
 - Inline Policy = creeted & managed by customer (customer managed policies)
 - ARN's will be used in <u>Ison</u> Policies.
 - IAM User is used to access AWS console & services but not bogin to EC2 instance.

* IAM ROLES

Roles = Temporary access without Credentials.

- If you use IAM Roles, you no need to configure keys on the machines.
 - Based on the permissions that you have attached to the role, those permission are available from the instance
 - 1 ECZ instance can have only 1 ROLE attached, at at time.
 - 1 Role can be attached to multiple E(2 instance

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What is SAML ?

- Charles and Allert you we SAML = Security Assertion Markup Language is a open fedretion

 Standard that allow an identity

 Provider (idf) to authoriticate users

 and pass identity & securit info about.

 Them to a service provider (sp). This

 into it sent it sent into is sent in XML Document.
- SAML Performs + Wo functions
 - Authentication Who are you?
 - Authorization what can you do ?
 - and a super wheels as alway so and the grant When you enable organizations in the AWS Account will become management mor and a Roya

* IAM TAGS * - Tags are key-value pair Tags are used for identification purpose. TAGS are not IAM specific, it is through out AWS - TARS are very important, but it is optional - TAGS are useful for Billing Purpose also. - TAGS are useful for doing Automations in AWS. - TAGS are helpful for doing cost oftimization. CPA Memosy * IAM credential Report: - A Report that list all your account users and -8+9+45 of their various credential * IAM ACCESS Advisor: - It Shows the service permissions granted to the user and when those were 1951 used. * IAM Access Angluzer:= It is used to analyze access of IAM users (unused & external access) # IAM Policies Structure consist of · version - Policy language version. An identities for the policy (offinal) ostatement - one or more individual statemenent. (Require * Statement Consist of:-· sid = An identifier for the statement Coptinal) · Effect = Allow or Deny · principle = Account / user/ Role to which policy is applied, · Action = List of actions this Policy allows or denieg. · Regourse = List of resources which the actions apply to. · conditions = conditions for when the policy is in effect (optional). IAM USERS IAM COSOBIS IAM Roles Policies JAM IAM service. 7995 IAM TAP

Fedre tions

organization

This also comes in IAM service. XX