

Vidyavardhini's College of Engineering and Technology

Department of Artificial Intelligence & Data Science

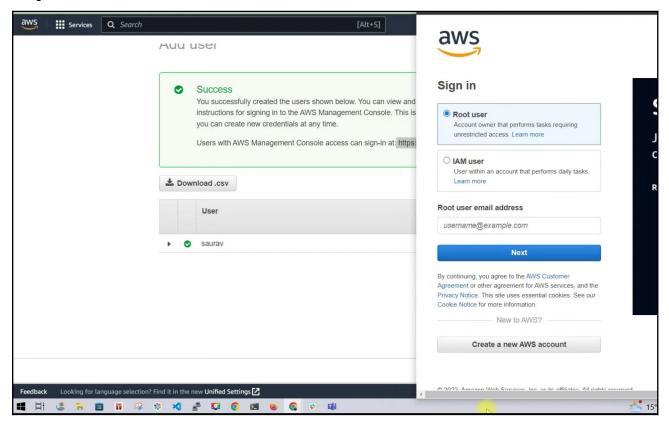
Experiment No. 8

Aim: To study and implement Identity and Access Management (IAM) practices on AWS

Theory:

- Identity Management is a set of business processes, and a supporting infrastructure, for the creation, maintenance and use of digital identities.
- IAM is an essential function for protecting the privacy of information, enhancing user experience, enabling accountability, and controlling access to an organization's assets.
- IAM is the collection of processes and technology used to manage digital identities and the resource access provided through them.
- Components of access management
 - Establishing unique identities and associated authentication credentials.
 - Authoritative source is maintained as a central repository for storage.
 - Providing capability to identities to request entitlements
 - Assigning roles or entitlements to identities.
 - · Managing off boarding and other business work processes by workflows
 - Providing capability to approve, revoke, review or certify entitlements or roles assigned to users.

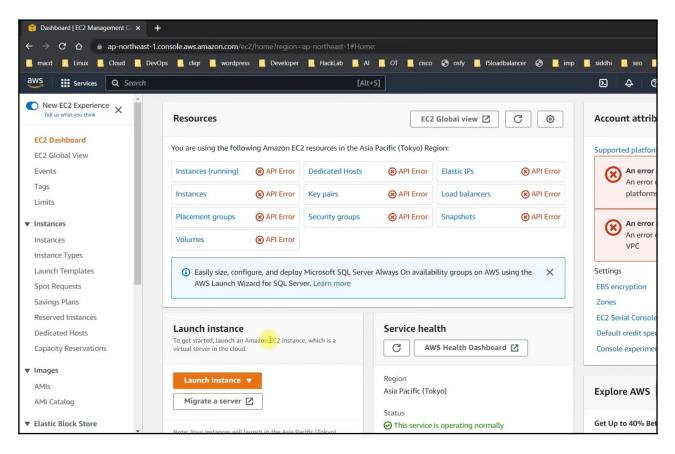
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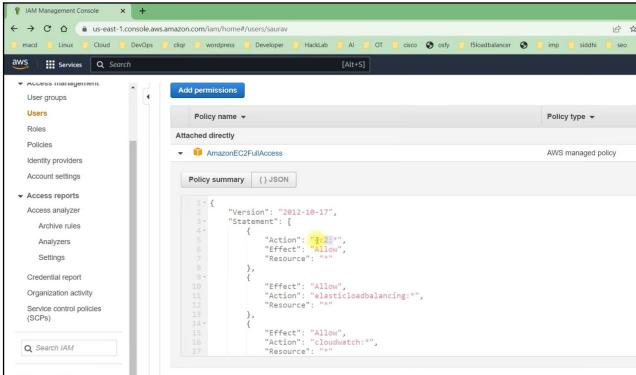




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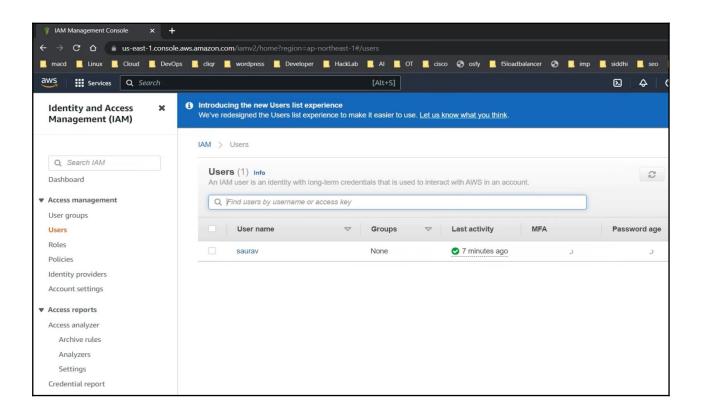






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Conclusion: In AWS IAM (Identity and Access Management), users are entities that represent individuals or services interacting with AWS resources. Users are granted permissions through IAM policies, which specify what actions they can perform on which AWS resources. IAM allows you to create, manage, and delete users, enabling you to control access to your AWS environment securely. Users can have unique credentials (such as username and password) or use temporary security credentials for programmatic access. By managing users and their permissions, IAM helps organizations enforce the principle of least privilege, ensuring that users have only the access they need to perform their tasks.