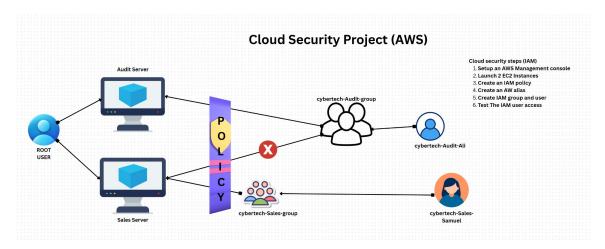
AWS IAM Cloud Security Project

1. Project Overview

I completed this project on cloud security controls in Amazon Web Services (AWS), focusing on Identity and Access Management (IAM). The goal was to create a least-privilege policy, attach it to a user group, and verify that the policy correctly restricts actions on two Amazon EC2 instances (audit and sales).

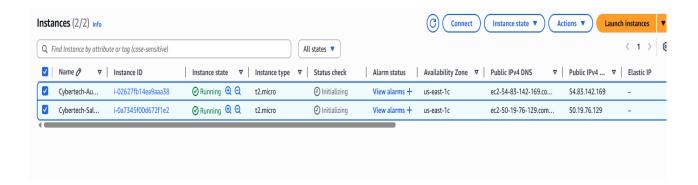


2. Tools & Concepts

- AWS IAM users, groups, policies, account alias
- Amazon EC2 instance tagging and lifecycle actions
- JSON policy syntax Effect, Action, Resource
- Principle of least privilege and policy testing

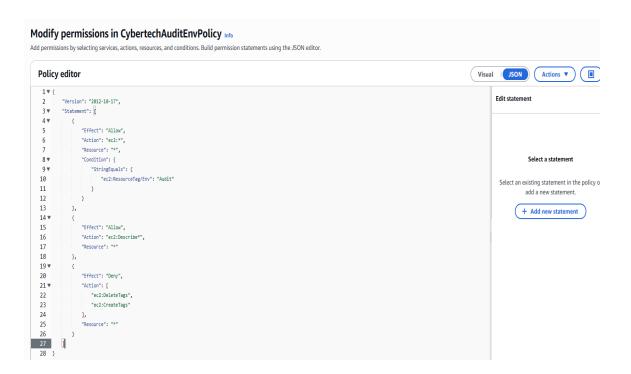
3. Tagging Strategy

I	I applied		а	descriptive	tag	to	each	EC2	i	nstance:
Instar	nce	- [Tag	Key				1	Tag	Value
audit					1	En	vironment			Audit
sales		Envir	onment	Sales						



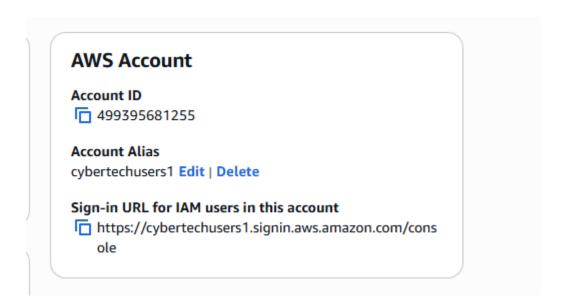
4. Creating the IAM Policy

I authored the following JSON policy to block instance stop/start actions on the audit server but allow those actions on the sales server:



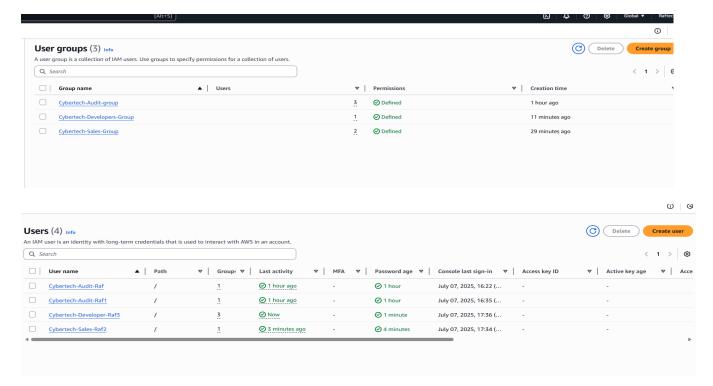
5. Account Alias

I set a memorable account alias to replace the default numeric URL, making signing easier for team members.



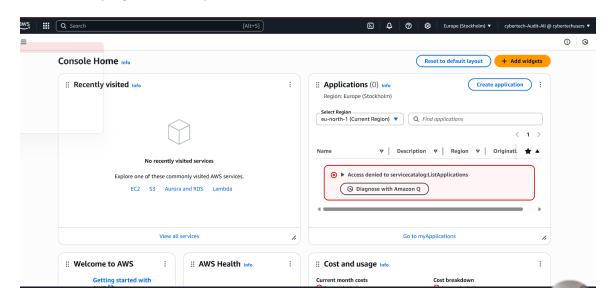
6. IAM Users & Groups

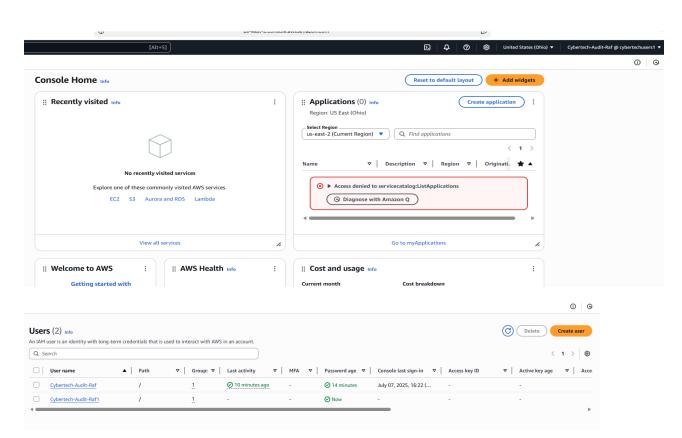
- 1. Created an IAM user group called Developers.
- 2. Attached the **CybertechAuditEnvPolicy** policy to the group.
- 3. Added individual IAM users who require controlled EC2 access.



7. Logging in as an IAM User

IAM users can sign in through:
- AWS Management Console (using the new alias URL)
- AWS CLI via programmatic keys





8. Testing the Policy

Test Action Expected Result Actual Result Stop audit instance Denied Access denied error displayed successfully Stop sales instance Allowed Instance stopped Start audit displayed instance Denied Access denied error Start sales instance | Allowed | Instance started successfully

