AWS Control Tower Lab Simulation Workbook

1. Introduction

This workbook is designed to help you understand AWS Control Tower, Account Factory, and SCP governance through theory and simulation exercises - without provisioning real AWS accounts.

2. Architecture Simulation

- Draw a layout of an AWS Organization with the following:
- 3 Organizational Units: Dev, Test, Prod
- Each OU contains 2-3 AWS accounts
- Control Tower governance accounts: Audit, Log Archive
- Identify where guardrails (SCPs and Config rules) would apply.
- Determine which services should be enabled in all accounts (e.g., CloudTrail, AWS Config).

3. Account Factory Simulation

- Simulate filling out a request for a new account:
- Account name: teamX-dev
- Email: teamX+dev@example.com
- OU: Dev
- Enable VPC creation? Yes
- Describe what steps AWS Control Tower will perform after submission.
- Estimate how long provisioning would take and what to check after creation.

4. SCP Policy Practice

"Statement": [

- Write an SCP to allow only t3.micro instances:{"Version": "2012-10-17",

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```
{
  "Effect": "Deny",
  "Action": "ec2:RunInstances",
  "Resource": "*",
  "Condition": {
    "StringNotEquals": {
      "ec2:InstanceType": "t3.micro"
    }
  }
}
```

- Practice writing SCPs that:
- Block S3 public access
- Deny IAM user creation

5. Account Lifecycle Planning

- Describe the lifecycle of an AWS account in an enterprise:
- Creation -> Use -> Monitoring -> Deactivation -> Quarantine or Archive
- Simulate steps for quarantining an unused account:
- Move to 'Quarantine OU'
- Apply SCP that denies all actions
- Remove IAM permissions
- Notify owner

6. Useful Resources

- AWS Control Tower Overview: https://docs.aws.amazon.com/controltower/latest/userguide/

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- AFT (Account Factory for Terraform): https://docs.aws.amazon.com/controltower/latest/userguide/aft-overview.html		
-	SCP	Examples: