

# **Mastering Multi-Account Strategy with AWS Control Tower**

*Simplifying Cloud Governance*

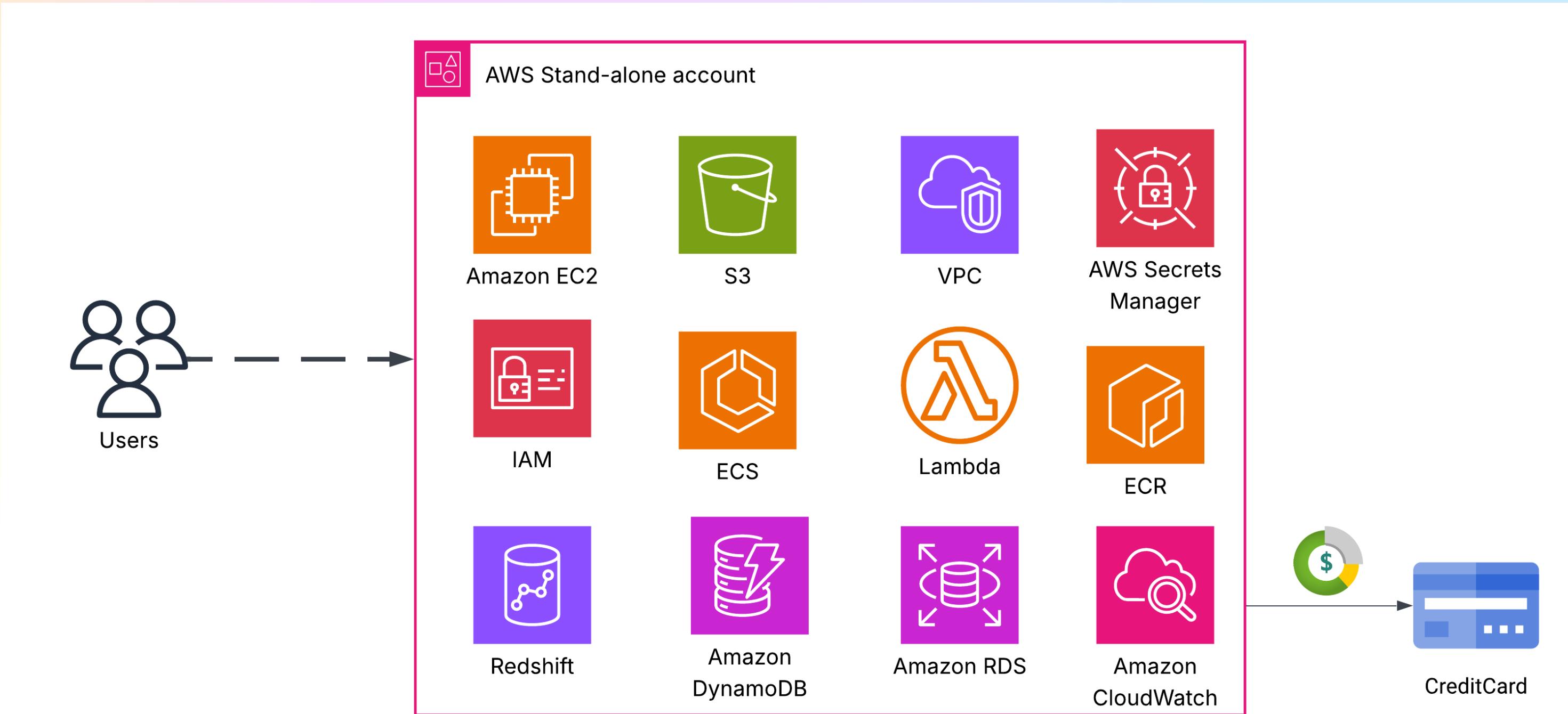
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**Cloud Architect - PwC**

# What we will cover today:

- *AWS Account*
- *A View from Enterprise Lens*
- *AWS Landing Zone*
- *AWS Control Tower(deep-dive)*
- *Demo*
- *Key Takeaways*
- *Career Path*
- *Q & A*

# AWS Account:

*Logical permissions boundary within AWS Ecosystem.*



# Enterprise Lens:

- *Reduced Blast Radius*
- *Single sign-on capability*
- *Centralized Security Management*
- *Centralized Logging*
- *Organizational standards*
- *Unified Billing, Cost Management*



Blast Radius



Single Sign-On



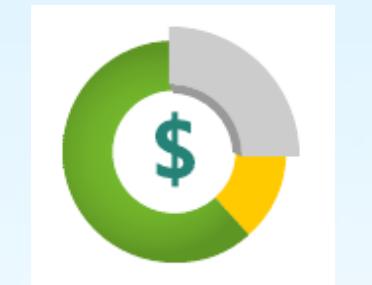
Security Lens



Logs



Organizations Standards

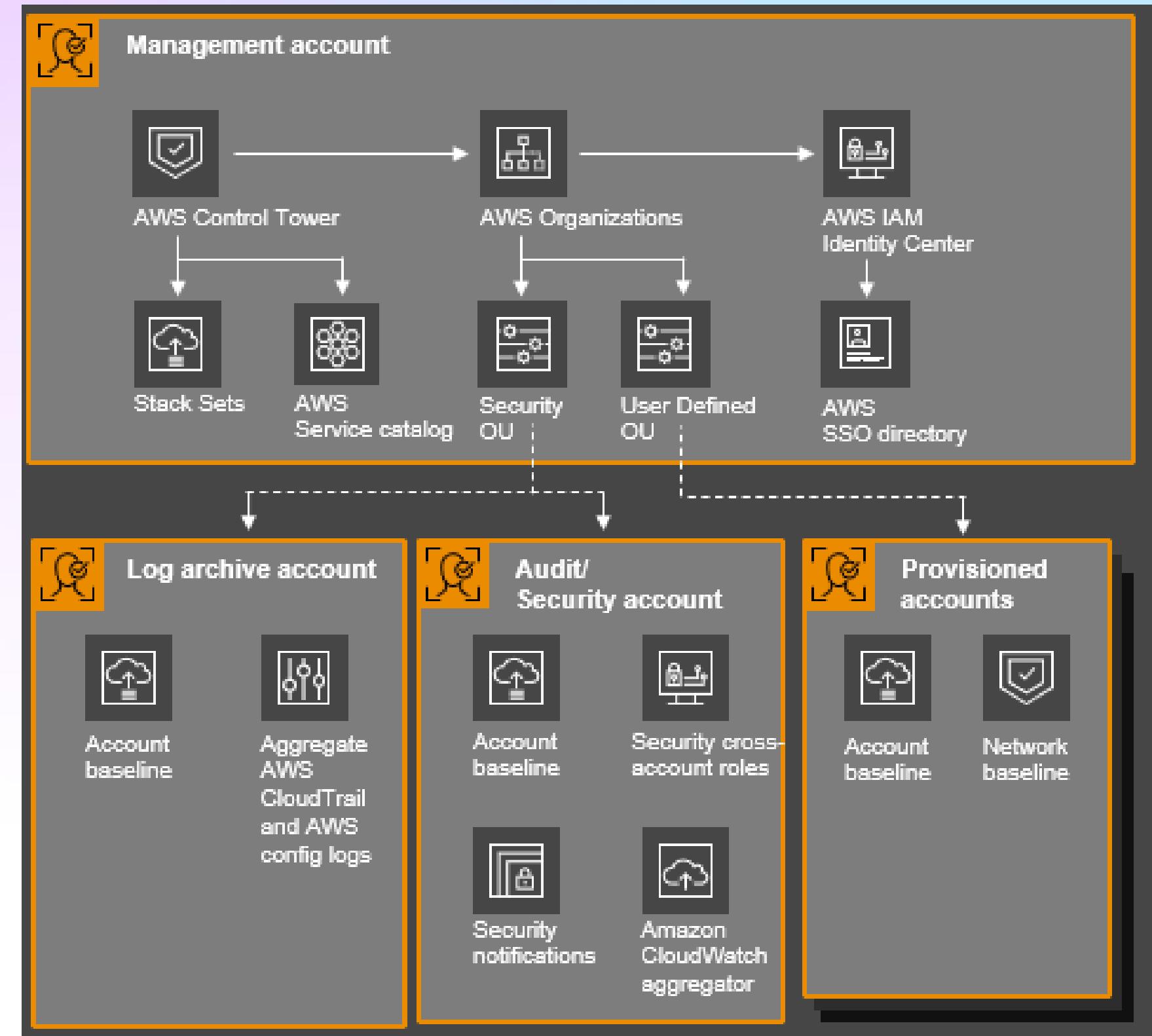


Cost Management and Billing

# AWS Landing Zone

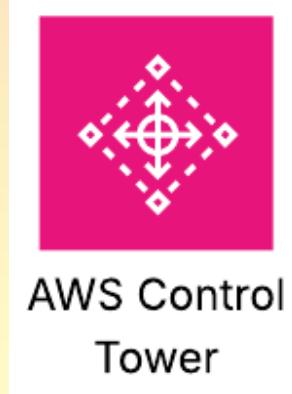
*Setup that is configurable, secure, scalable, multi-account AWS environments based on AWS best practices*

- *Management account*
- *Log-archive account*
- *Security account*
- *Workload accounts(1..n)*



*AWS Deprecated this in 2020\*\**

# Why use AWS Control Tower?



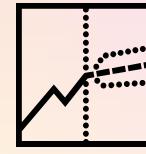
AWS Control Tower



AWS Organizations



*Set up a well-architected AWS Landing Zone in a few clicks*



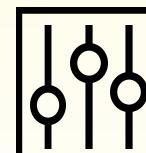
*Standardized account provisioning with Infrastructure-as-Code  
(CloudFormation or Terraform)*



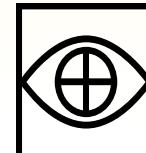
*Centralized policy management*



*Enforce governance and compliance proactively*



*Enable end-user self-service*

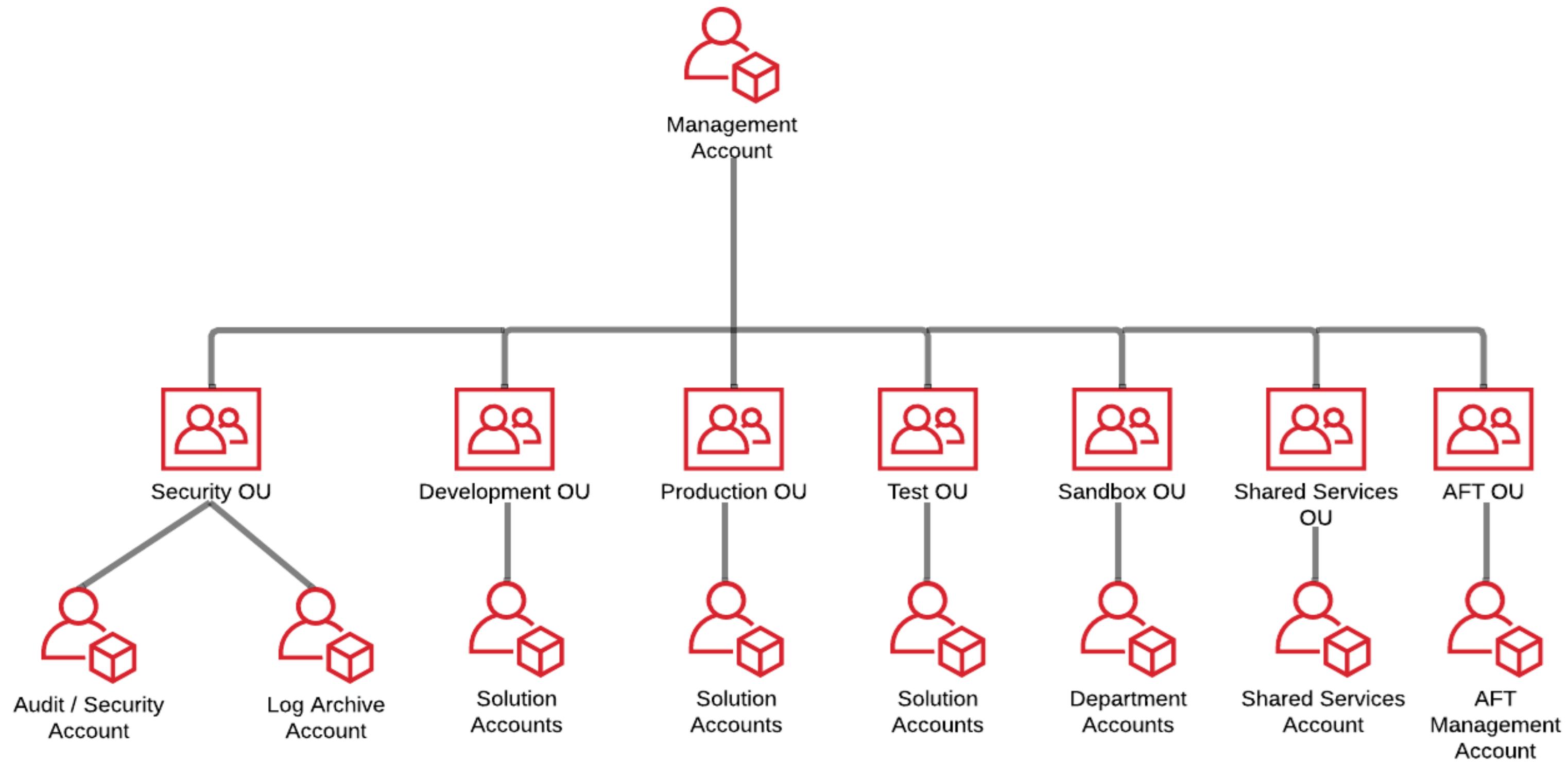


*Get continuous visibility into your AWS environment*



*Gain peace of mind*

# Enterprise OU Structure:



# Policy Enforcements:

## Mandatory controls

- Disallow configuration changes to CloudTrail
- Enable CloudTrail in all available regions
- Enable integrity validation for CloudTrail log file
- Disallow configuration changes to AWS config
- Enable AWS config in all available regions

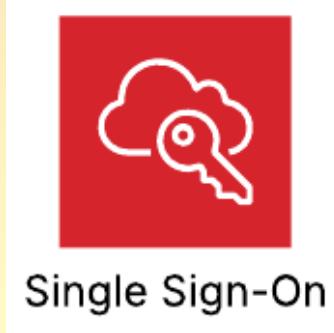
## Strongly recommended controls

- Disallow creation of access keys for the root user
- Disallow actions as a root user
- Detect whether MFA for the root user is enabled

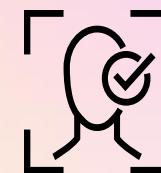
## Elective controls

- Disallow changes to replication configuration for Amazon S3 Buckets
- Detect whether MFA is enabled for AWS IAM users
- Detect whether versioning for Amazon S3 Buckets is enabled

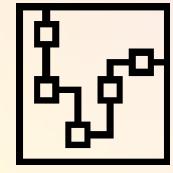
# Centralized Identity and Access Management



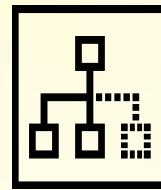
Single Sign-On



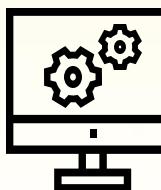
*AWS IAM Identity Center provides default directory for identity.*



*Enables federated access management across all accounts in your organization. Integrates with third party tools like Okta, ADFS etc.,*



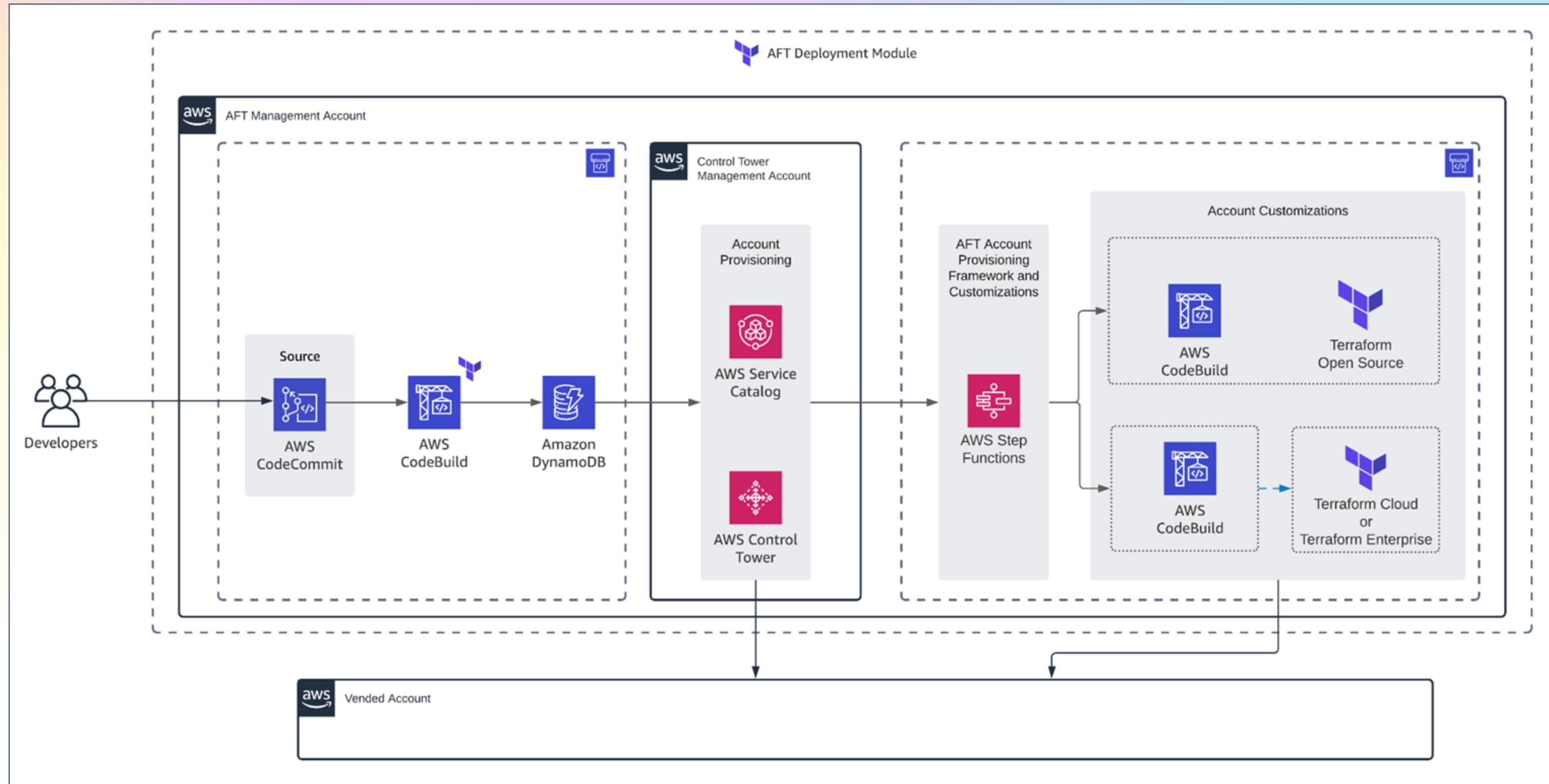
*Preconfigured IAM groups*



*Preconfigured permission sets (e.g., admin, read-only, write).*

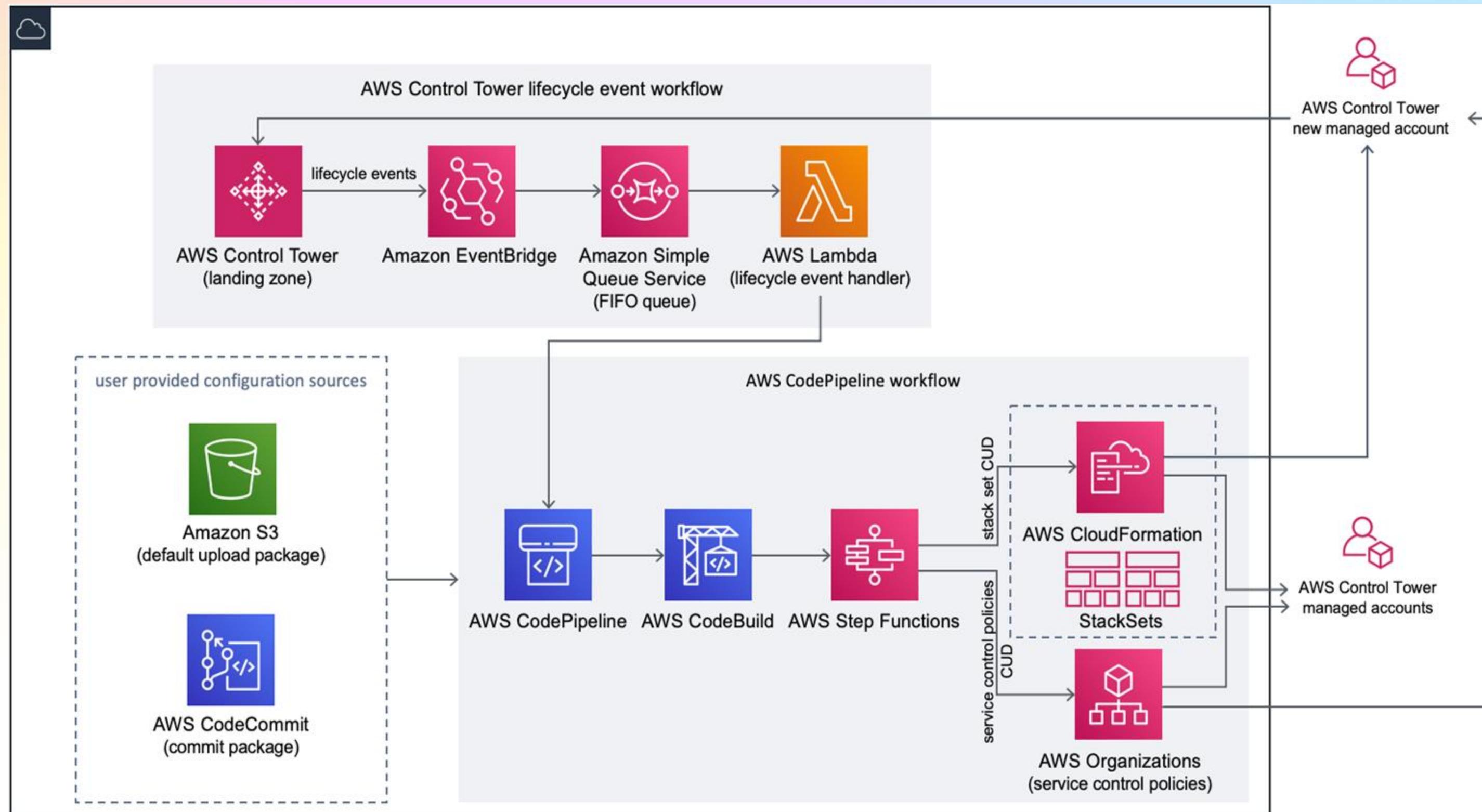
# Account Factory: Terraform

*Account requests, customizations are done through terraform configurations from SCM*



# Account Factory: Cloud Formation

*Account requests, customizations are done through Cloud Formation templates*



# **Demo**

## Key Takeaways:

- *Use Control Tower features to Simplify your Cloud Governance*
- *Create OU's as per the business requirements*
- *Build Secure Foundations with Controls library*
- *Always follow IaC best practices*
- *Always visualize solution from Enterprise Lens*

## Career Path:

- *Cloud Architect - Designs secure multi-account AWS environments*
- *DevOps Engineers – Automates provisioning via Account Factory*
- *Cloud Administrators – Manages users, access, budgets*
- *Cloud Security Engineers - Implements Controls & compliance*

# **Q & A**

# THANK YOU FOR ATTENDING!

Have queries/ideas later, Connect with me on LinkedIn

