



AWS Control Tower

Activation Day

5-26-2021



Agenda

All times Central US (GMT -05:00)

09:00 AM	09:15 AM	Introductions
09:15 AM	10:00 AM	AWS Control tower Overview
10:00 AM	10:50 AM	Multi-Account Governance / OU Structure
10:50 AM	11:00 AM	Break
11:00 AM	11:30 AM	AWS Control Tower Demo
11:30 AM	12:00 PM	AWS Control Tower Customizations
12:00 PM	01:00 PM	CloudCheckr Presentation / Lunch Break
01:00 PM	04:00 PM	Introduction to our labs

Presenters Introduction



Jarrid Kleinfelter
Sr. Solutions Architect
Wisconsin



Andrew Timpone
Solutions Architect
Ohio

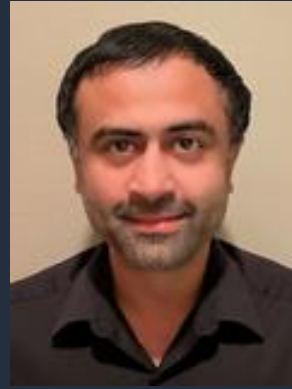


Roguen Keller
Sr. Customer Delivery Architect
Illinois

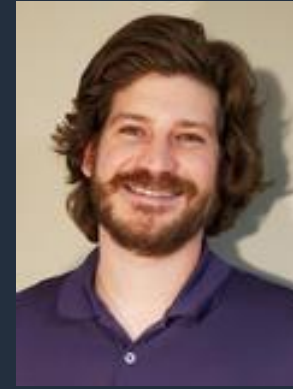
Support Introduction



Dan Ullom
Solutions Architect
Missouri



Jimmy Thanki
Sr. Solutions Architect
Iowa



David McElligott
Solutions Architect
Nebraska



Lijan Kuniyil
Solutions Architect
Massachusetts



Sahil Saini
Cloud Infra Architect
New York



Sushanth Mangalore
Solutions Architect
Illinois



Jayapradha Krishnan
Sr. Solutions Architect
California



Johanna Wood
Sr. Migration Specialist
Massachusetts

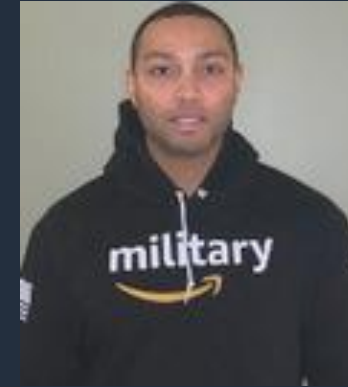
Support Introduction



Charles Proctor
Demand Gen Rep
Virginia



Fernanda Machado
Solutions Architect
Amsterdam



Craig Edwards
Solutions Architect
Virginia



Vijay Kumar
Solutions Architect
North Carolina

Introduction Poll

<https://pollev.com/jarridkleinf831>



Every home needs a strong architecture



Comble aluminium
Color blanc noir. Rd 4R. 1500

Volet aluminium
dus. motorisé 250

6000

250

3100

750

Base vitrée coulissante
aluminium. Gris perle.

Sol parquet bois marin.
Tech. - lames de 12x 2000

Revetement de terraz.
Peinture de couleur noire. Rd 4R.

AWS management and governance services

Security and IAM

Enable




AWS
Control Tower


AWS
Organizations


AWS
Budgets


AWS
License Manager


AWS Well-
Architected Tool

Provision




AWS
CloudFormation


AWS
Service Catalog


AWS
OpsWorks


AWS
Marketplace

Operate




Amazon
CloudWatch


AWS
CloudTrail


AWS
Config


AWS Systems
Manager


AWS Cost and
Usage Report


AWS
Cost Explorer

BUSINESS AGILITY + GOVERNANCE CONTROL

Automation

Business agility *and* governance control



With AWS Control Tower, you don't have to choose between agility and control

You can have both



Governance



- Security
- Compliance
- Operations
- Spend Management

Agility



- Self-service access
- Experiment fast
- Respond quickly to change

What is a landing zone?



landing zone:

- Secure pre-configured environment for your AWS presence
- Scalable and flexible
- Enables agility and innovation

AWS Landing Zone Solution:

- Implementation of a landing zone based on multi-account strategy guidance
- Customers get code that they will need to manage & maintain

AWS Control Tower:

- AWS Managed Service version of AWS Landing Zone

AWS Control Tower

The easiest self-service solution to automate the setup of **new AWS multi-account environments**



AWS Managed Service version of multi account environment



Deployment of AWS best practice Blueprints and Guardrails



An AWS service, offering automated account creation based on AWS best practices



Dashboard for monitoring compliance status

AWS Control Tower

Easiest way to set up and govern at scale



Enable



Provision



Operate

Business agility + governance control

Enable governance



Out of the Box in < 1 Hr...ZERO lines of code written 2 email addresses and 2 mouse clicks



Automated landing zone



Built-in identity and access



Account factory



Preconfigured log archive and
audit access to accounts



Guardrails



Built-in monitoring and notification

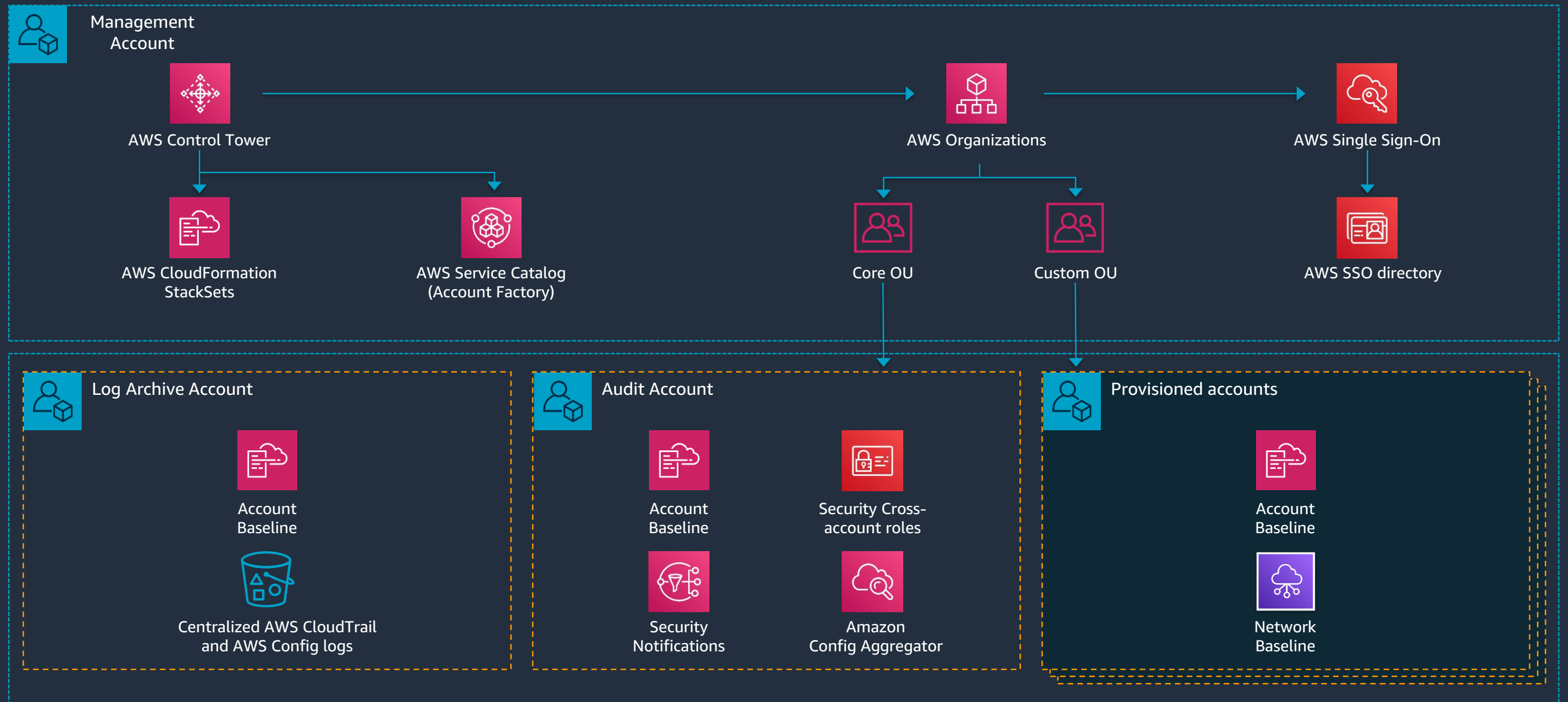


Dashboard for visibility

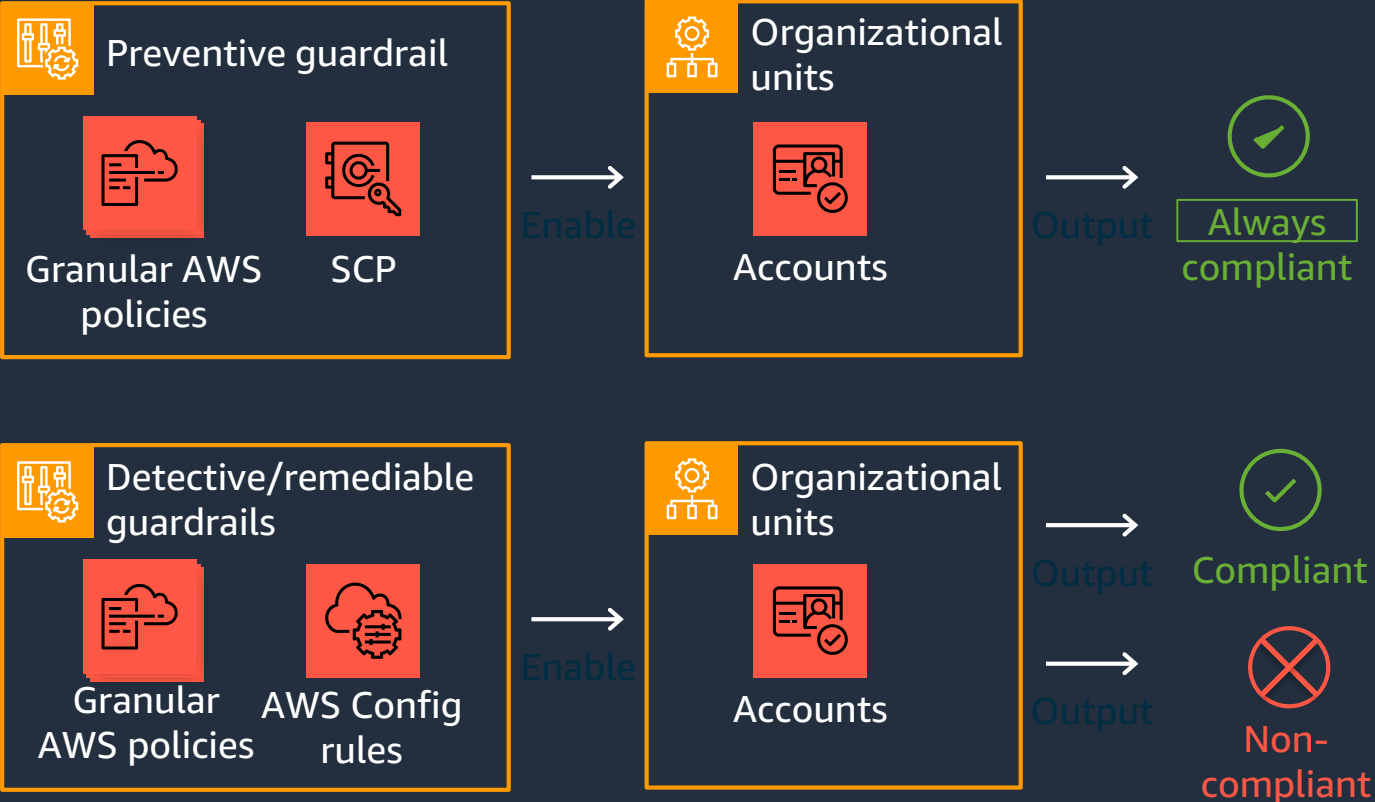


Automatic updates

Landing Zone provisioned by AWS Control Tower



Establish guardrails



Guardrail Examples

Guardrail	Type	Requirement
Enable MFA for the Root User	Detective	Strongly Recommended
Disallow public read access to S3	Detective	Strongly Recommended
Enable AWS Config in All Available Regions	Preventive	Mandatory
Disallow Policy Changes to Log Archive	Preventive	Mandatory
Integrate CloudTrail Events with CloudWatch Logs	Preventive	Mandatory
Disallow Amazon S3 Buckets That Are Not Versioning Enabled	Detective	Elective
Disallow Delete Actions on Amazon S3 Buckets Without MFA	Detective	Elective

Centralize identity and access



- AWS SSO provides default directory for identity
- AWS SSO also enables federated access management across all accounts in your organization
- Preconfigured groups (e.g., AWS Control Tower administrators, auditors, AWS Service Catalog end users)
- Preconfigured permission sets (e.g., admin, read-only, write)
- AWS SSO integrates with 3rd party IDP (Microsoft Azure AD, PING, OKTA)

AWS Control Tower

Easiest way to set up and govern at scale



Enable



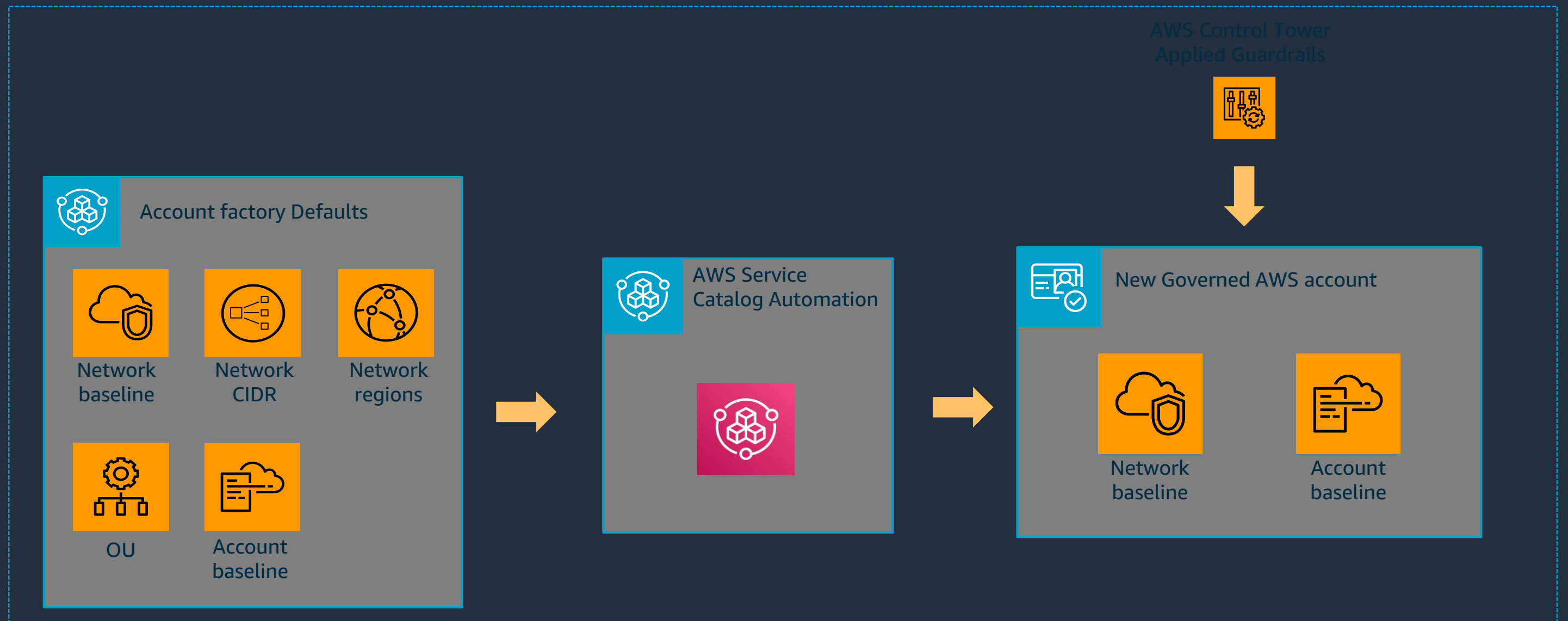
Provision



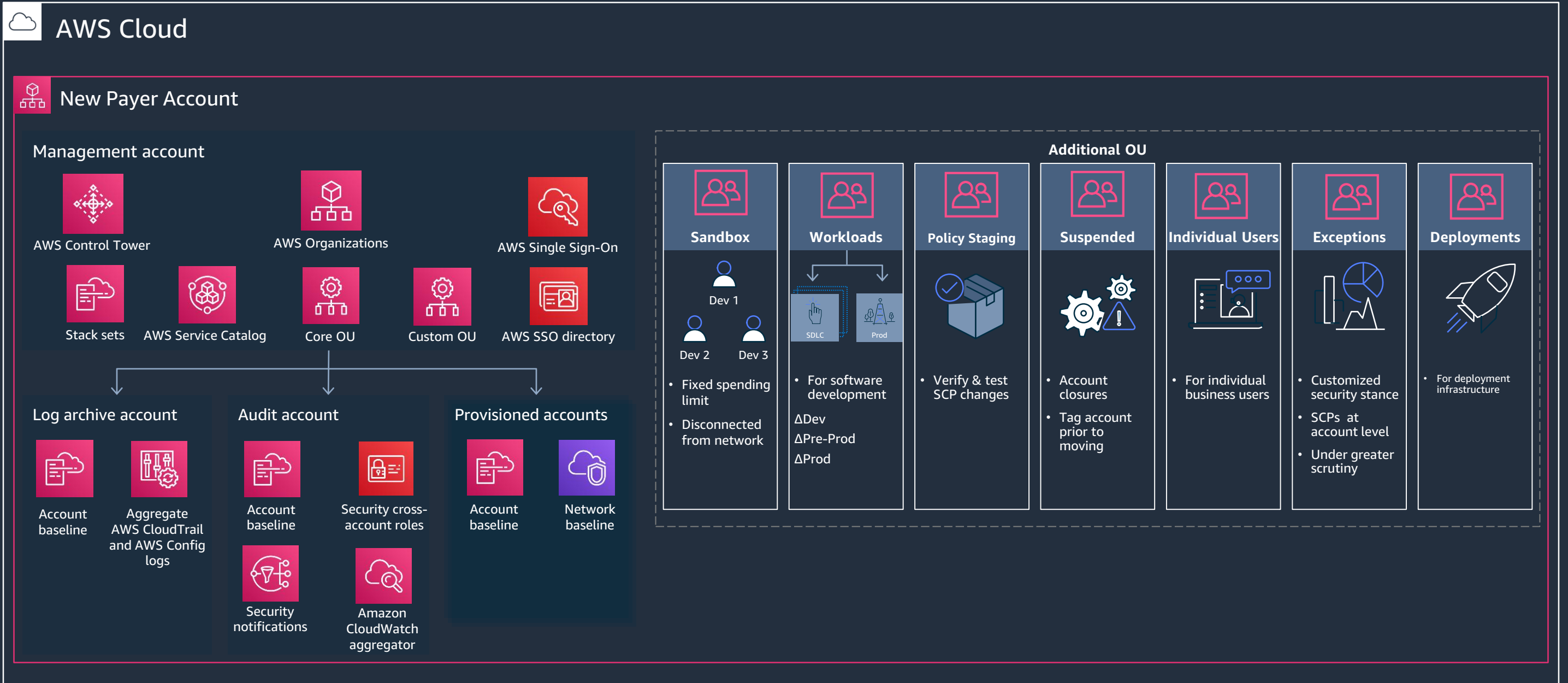
Operate

Business agility + governance control

Automate Compliant Account Provisioning



New customer journey



Existing customer journey

Jump start your Organization



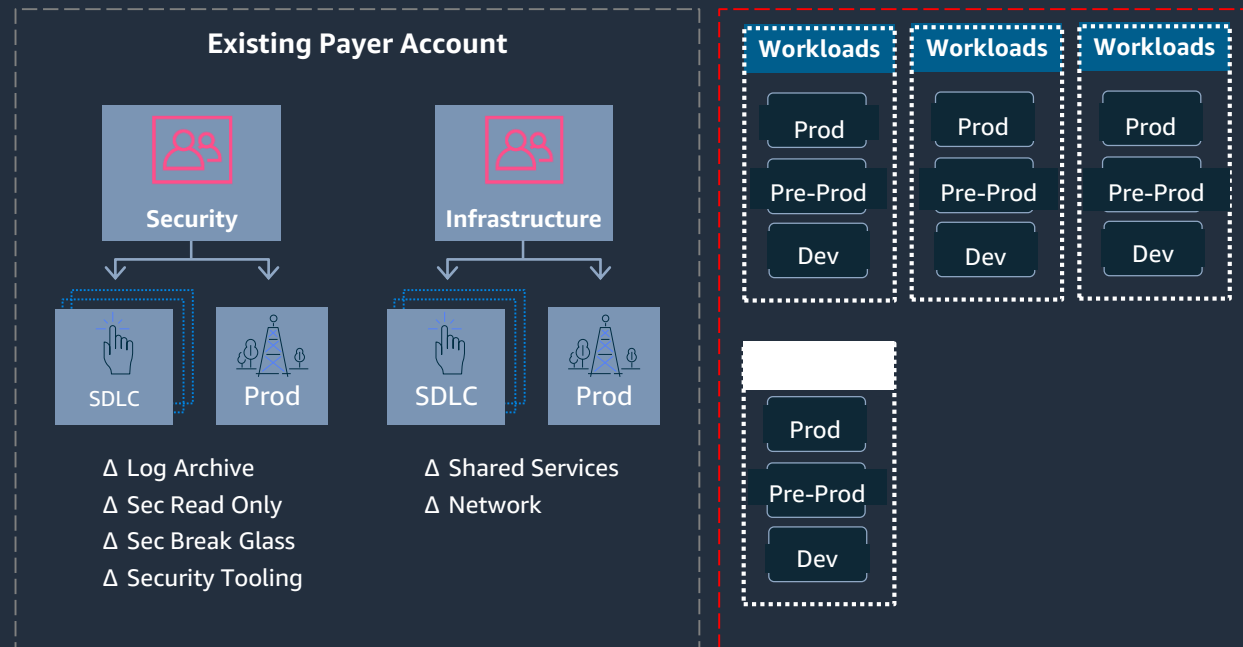
Review and test requirements:

- Single Sign-On
- Secure Token Service - STS
- Service Control Policies (SCP)
- AWS Config
- CloudTrail
- CloudFormation Stack Sets

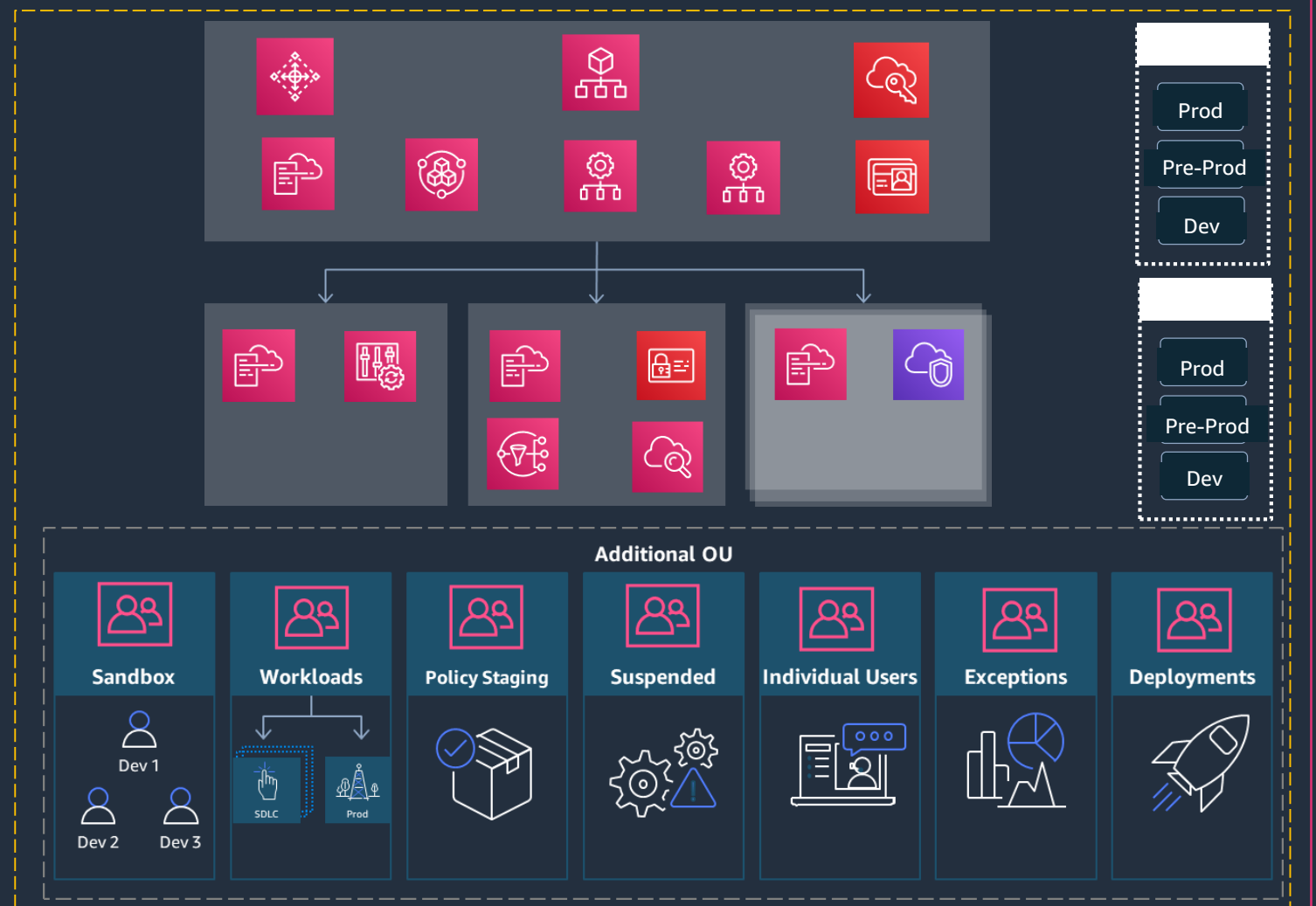
Existing customer journey

AWS Cloud

Existing Payer Account



Available for non-ALZ customers



Extend central governance with AWS Organizations



Centrally provision resources in a multi-account environment



Share resources and control access to accounts, regions, and services



Optimize costs and identify cost-saving measures



Seamless integration with AWS security services



AWS CloudFormation



AWS Personal Health Dashboard



AWS Trusted Advisor



AWS Audit Manager



Amazon GuardDuty



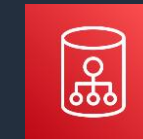
AWS Systems Manager



AWS Resource Access Manager



AWS Compute Optimizer



Amazon Cloud Directory



AWS Firewall Manager



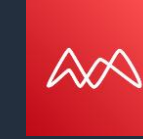
AWS Service Catalog



AWS Backup & Backup Policies



AWS Cost Explorer



Amazon Macie



AWS Security Hub



Tag Policies



AWS License Manager



AWS IAM Access Analyzer



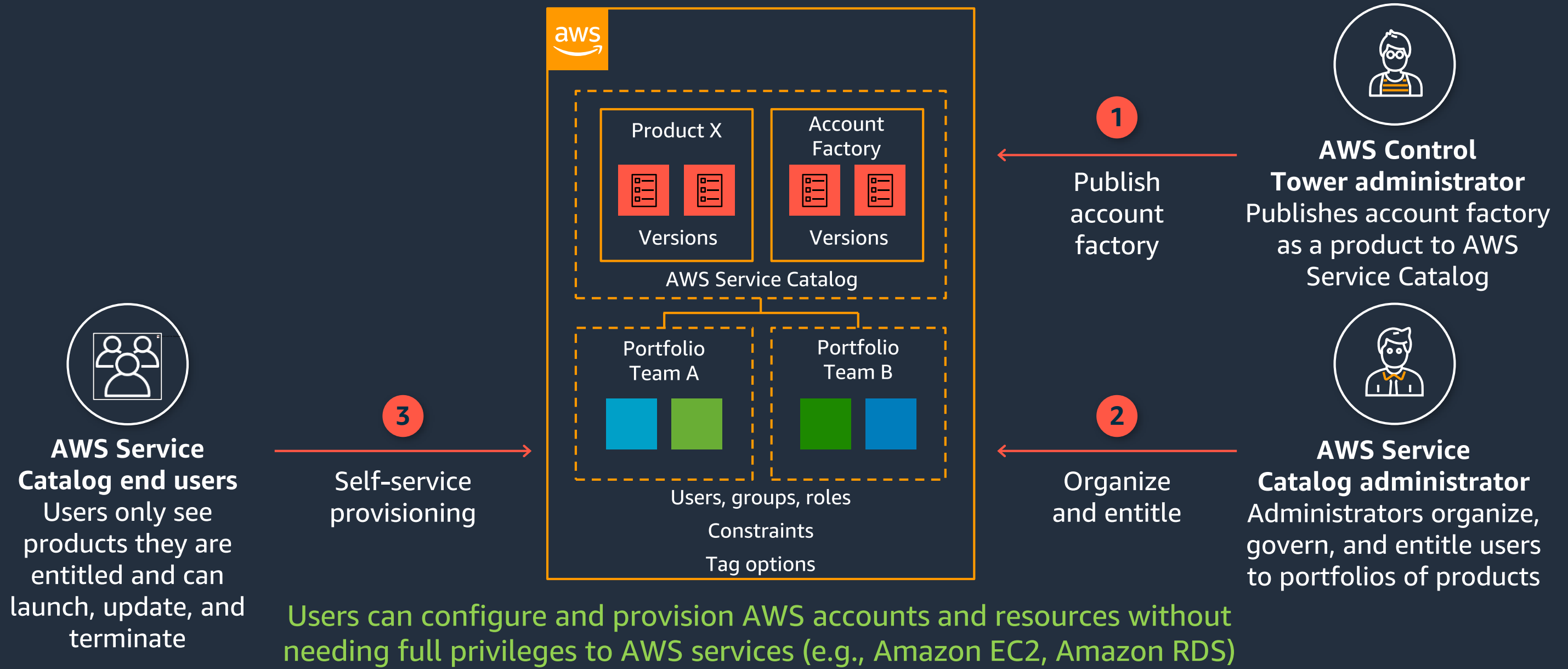
AI/ML Policies



S3 Storage Lens

<https://docs.aws.amazon.com/organizations/>

Self-service account provisioning in AWS Service Catalog



AWS Control Tower

Easiest way to set up and govern at scale



Enable



Provision



Operate

Business agility + governance control

Dashboard for oversight

aws Services Resource Groups Admin/0490293 @ 423... Oregon Support

AWS Control Tower

- Dashboard
- Accounts
- Organizational units
- Guardrails
- Users and access
- Account factory
- Shared accounts

AWS Control Tower > Dashboard

Recommended actions

Environment summary

3	34
Organizational units	Accounts

Guardrail summary

28	12
Preventive guardrails	Detective guardrails

Noncompliant resources [Info](#)

Resource ID	Resource type	Service	Region	Account name	OU	Guardrail
vol-842jhdkjsj83821234	Volume	EC2	us-west-2	db-uswest-1-gamma	Custom	Enable encryption for EBS volumes at
vol-05flia830kd209897	Volume	EC2	us-east-1	testing-beta-1	Project 1	Enable encryption for EBS volumes at
sg-031234b83bac98765	Security Group	EC2	eu-west-1	ops-test-4	Project 1	Disallow internet connection through

Organizational units [Info](#)

Name	Parent OU	Compliance
Core	Root	Compliant
Project 1	Root	Noncompliant
Custom	Root	Noncompliant

Accounts

< 1 ... >

Account name	Account email	Organizational unit	Owner	Compliance status
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Pricing and availability



Generally available in Americas (Canada, N. Virginia & Ohio, Oregon), APAC (Sydney, Singapore) and EU (Ireland, Frankfurt, London, Stockholm)



No additional charge for using AWS Control Tower



Pay only for underlying AWS services (e.g., AWS Config rules, AWS CloudTrail) that are enabled

Summary of key features



Automated landing zone with best practice blueprints



Guardrails for policy management



Account factory for account provisioning



Dashboard for visibility and actions



Built-in identity and access management



Preconfigured log archive and audit access to accounts



Built-in monitoring and notifications



Automatic updates

Questions?



AWS Control Tower customizations

Lifecycle events

Benefits:

- Amazon EventBridge Integration
- Operation Status

Events supported:

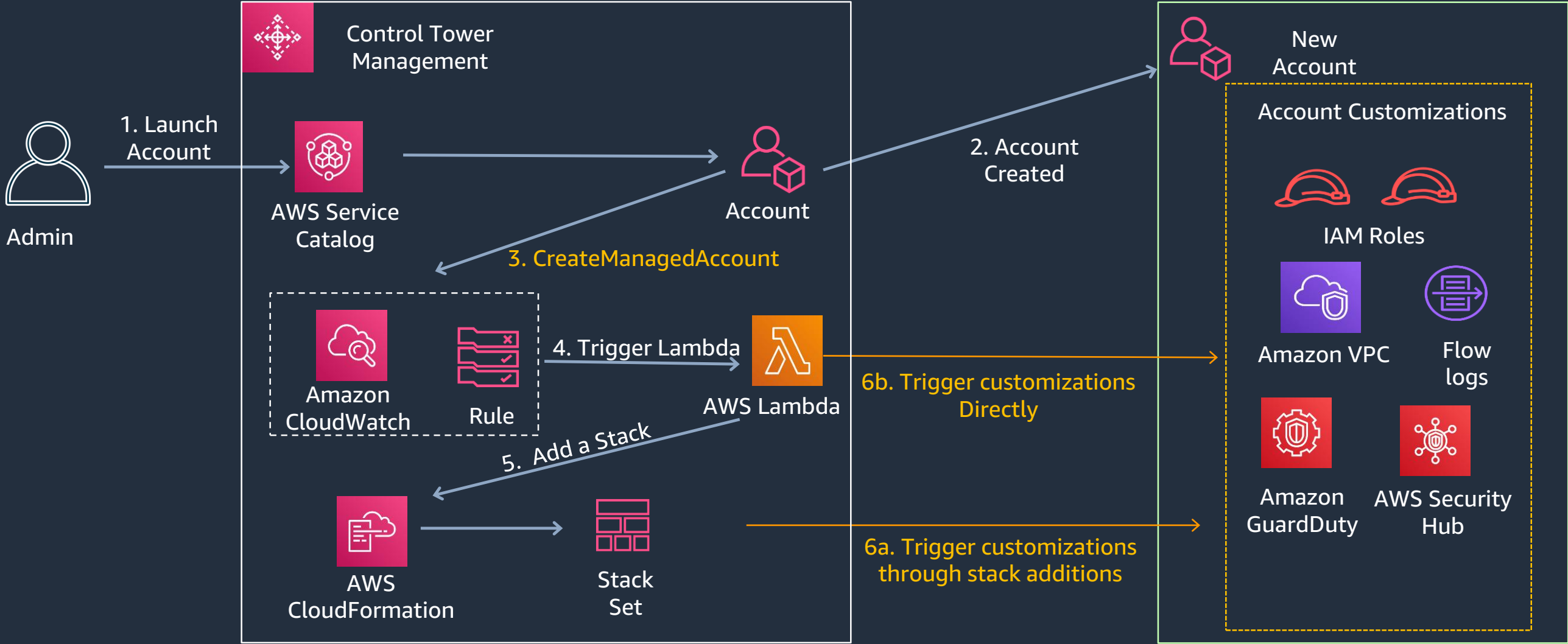
1. CreateManagedAccount
2. UpdateManagedAccount
3. EnableGuardrail
4. DisableGuardrail
5. SetupLandingZone
6. UpdateLandingZone
7. RegisterOrganizationalUnit
8. DeregisterOrganizationalUnit

Life Cycle Events

- **CreateManagedAccount:**
 - Creates and provisions a new account using account factory.
- **UpdateManagedAccount:**
 - Updates a provisioned product that is associated with an account you created using account factory.
- **EnableGuardrail:** Enables a guardrail on an OU that was created by Control Tower.
- **DisableGuardrail:** Disables a guardrail on an account that was created by Control Tower.
- **SetupLandingZone:** Sets up a landing zone.
- **UpdateLandingZone:** Updates a landing zone.
- **RegisterOrganizationalUnit:** Creates a new OU.
- **DeregisterOrganizationalUnit:** Deletes an OU that was created by Control Tower.

Configure/Trigger Customizations with LifeCycle Events

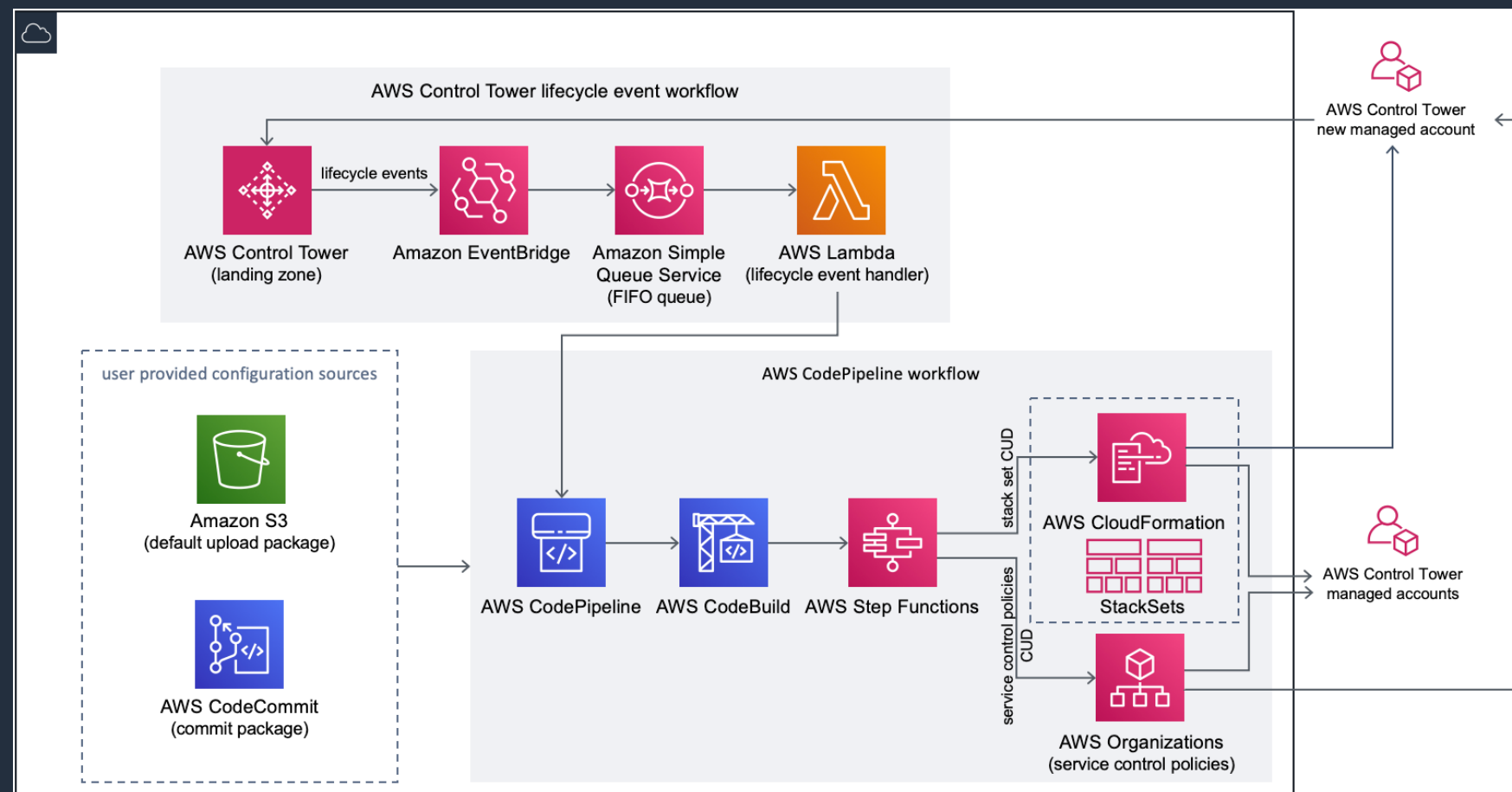
CreateManagedAccount: The log records whether AWS Control Tower successfully completed every action to create and provision a new account using account factory.



How to customize AWS CT today?

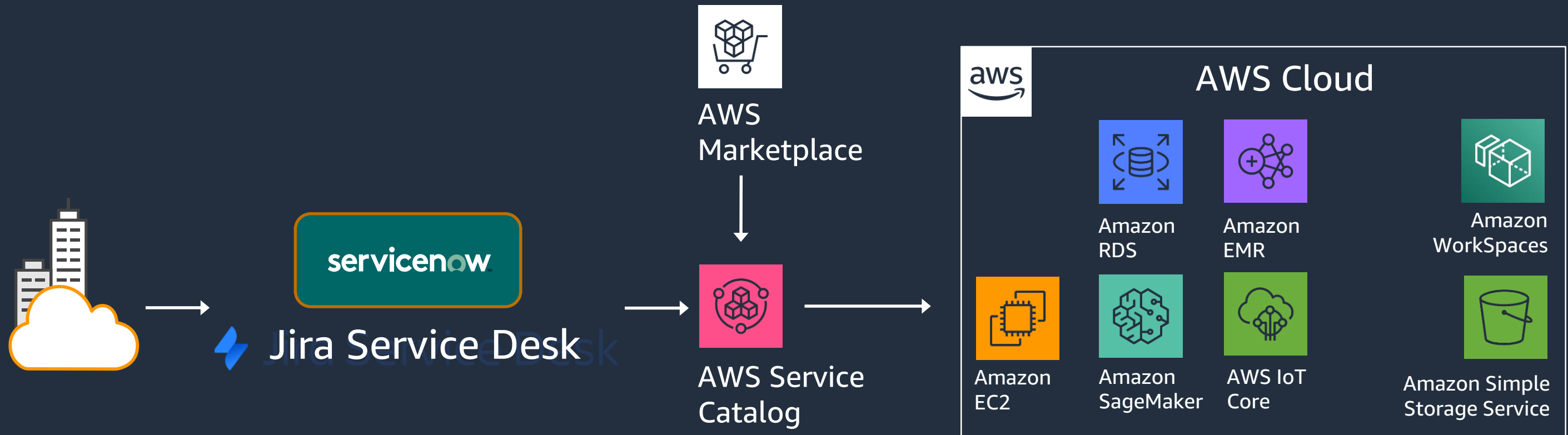
- Automate post-account creation tasks
- Extend your Control Tower Landing Zone
- Attach resources to accounts
- Deploy SCP's & Config rules

Customization Reference Solution



<https://aws.amazon.com/solutions/customizations-for-aws-control-tower/>

Enabling self-service via AWS & ITSM Tools



1

Users browse and request AWS services

2

Administrators procure, publish, and govern AWS services

3

Operators monitor and manage AWS services

Use cases for Control Tower solutions on AWS Marketplace

<https://aws.amazon.com/marketplace/solutions/control-tower/>

Operational Readiness

Establish centralized infrastructure software and services to manage a multi-account environment and deliver enhanced performance and security.



Multi-account security



Identity management



Network management



SIEM



Operational intelligence



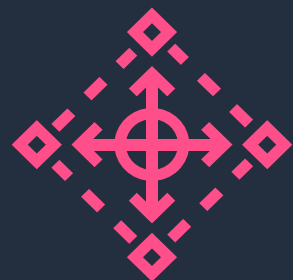
Cost management and governance

Operational Excellence

Elevate your multi-account environment by detecting the occurrence of security events, enabling faster responses, and making security improvements.

Journey from zero to hero

Implementation



AWS Control Tower

Identity and Network



okta

aviatrix

CISCO

onelogin

Security

ALERT LOGIC



CROWDSTRIKE

tenable

TREND MICRO

Monitoring and Insights

DATADOG

PagerDuty

cutover

dynatrace

New Relic



Security Monitoring

logz.io

splunk

sumo logic

Cost Management and Governance

Spot by NetApp

Cloud Checkr

cloudtamer.io



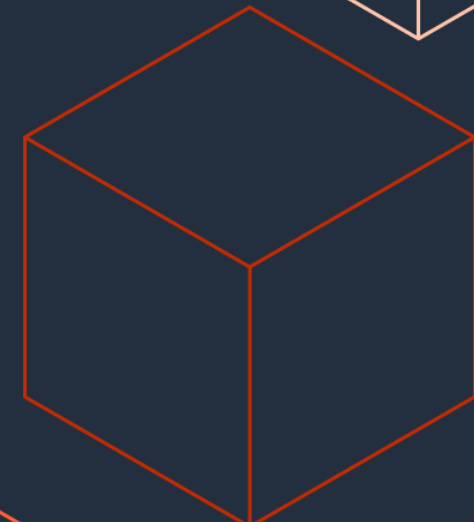
Knowledge Check

<https://pollev.com/jarridkleinf831>



Session survey

https://survey.immersionday.com/F_3kSP3Gg



Session reference material

<https://github.com/jarridkleinfelter/awsctactivationday526/blob/main/README.md>

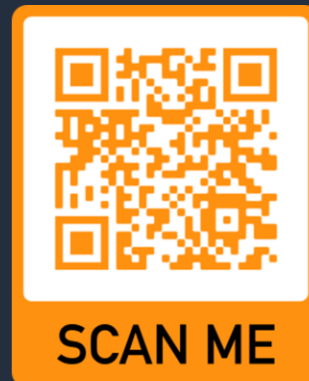


How do I get started?

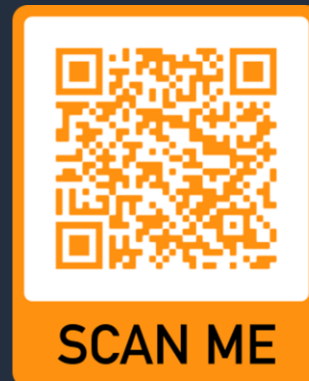
Getting started : <https://tinyurl.com/y2gtzf9c>

AWS Control Tower labs: <https://controltower.aws-management.tools/>

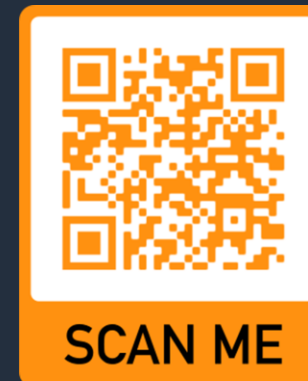
How-to videos (Management & Governance): <https://tinyurl.com/y3yeohkm>



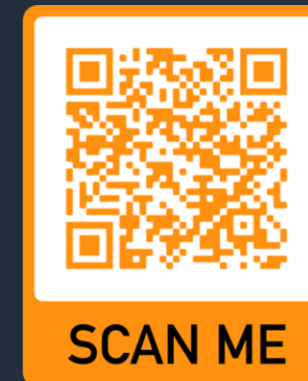
Management &
Governance AWS Blog



AWS Organizations
website



AWS Control Tower
Getting Started



AWS Well-Architected
website

Thank you

aws-cs-bd@amazon.com