

# Organizations and Accounts

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**AWS Organizations** allow the creation of new AWS accounts. Centrally manage billing, control access, compliance, security, and share resources across your AWS accounts.



**Root Account User** is a single sign-in identity that has complete access to all AWS services and resources in an account. Each account has a Root Account User

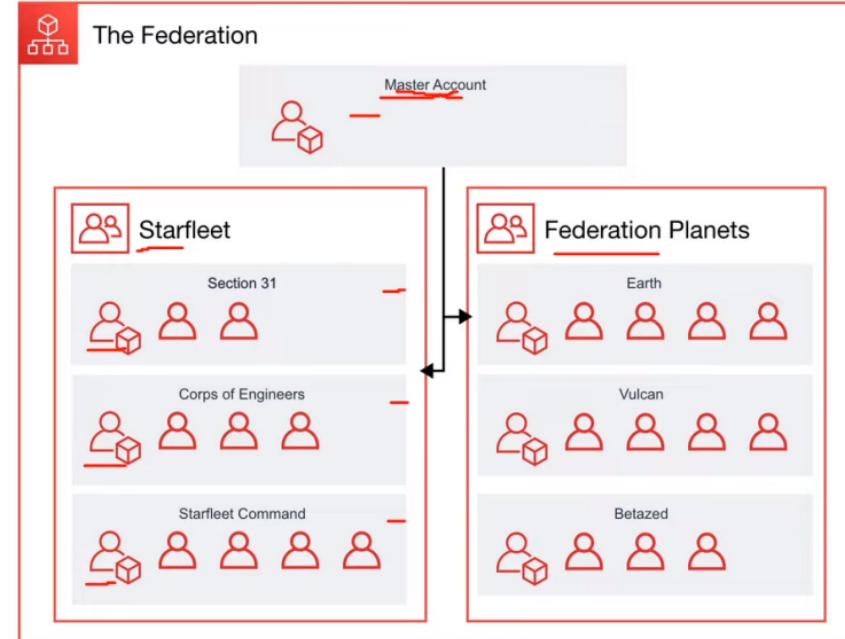


**Organization Units** are a group of AWS accounts within an organization which can also contain other organizational units - creating a hierarchy

**Service Control Policies** give central control over the allowed permissions for all accounts in your organization, helping to ensure your accounts stay within your organization's guidelines.

AWS Organizations must be turned on, once turned it cannot be turned off.

You can create as many AWS Accounts as you like, one account will be the Master/Root Account



**AWS Account** is not the same as a **User Account**



# AWS Control Tower

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AWS Control Tower helps **Enterprises** quickly set-up a secure, **AWS multi-account** Provides you with a **baseline environment** to get started with a **multi-account architecture**



## Landing Zone



A landing zone is a baseline environment following well-architected and best practices to start launching production ready workloads.

- AWS SSO enabled, Centralized logging for AWS CloudTrail, cross-account security auditing



## Account Factory

- automates provisioning of new accounts in your organization
- standardize the provisioning of new accounts with pre-approved account configurations
- configure your account factory with pre-approved network configuration and region selections
- enable self-service for your builders to configure and provision new accounts using AWS Service Catalog



## Guardrails

pre-packaged governance rules for security, operations, and compliance that customers can select and apply enterprise-wide or to specific groups of accounts

**AWS Control Tower** is the *replacement* for retired **AWS Landing Zones**



# AWS Config

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## What is Change management?

Change management in the context of Cloud Infrastructure is when we have **formal process** to:

- monitor changes
- enforce changes
- Remediate changes

## What is Compliance-as-code (CaC)?

Compliance as code is when we utilize programming to automate the monitoring, enforcing and remediating changes to stay compliant with a compliance programs or expected configuration.

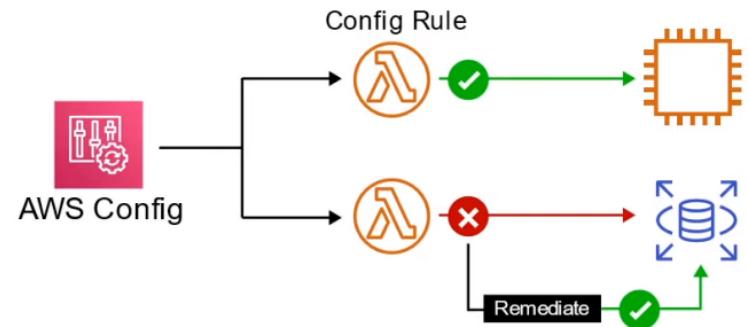


## What is AWS Config?

AWS Config as is **Compliance-as-Code framework** that allows us to **manage change** in your AWS accounts on a **per region basis**.

When should you use AWS Config?

- I want this **resource** to stay **configured a specific way** for **compliance**.
- I want to **keep track** of configuration **changes** to resources.
- I want **a list of all resources** within a region.
- I want to use **analyze potential security** weaknesses, you need detailed historical information.



# AWS Quick Starts

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**AWS Quick Starts** are **Prebuilt templates** by AWS and AWS Partners to help deploy wide range of stacks

Reduce hundreds of manual procedures into just a few steps

## A Quick Start is composed of **3** parts

1. A reference architecture for the deployment
  2. AWS CloudFormation templates that automate and configure the deployment
  3. A deployment guide explaining the architecture and implementation in detail

**MACHINE LEARNING**

**UPDATED**

## AWS QnABot

Built by AWS

Deploy a multi-channel, multi-language conversational interface (chatbot) that responds to your customer's questions, answers, and feedback.

Last update  
October 2021



A red arrow points from the "AWS QnABot" heading on the left towards the diagram on the right.

Most Quick Start reference deployments enable you to spin up a fully functional architecture in less than an hour!

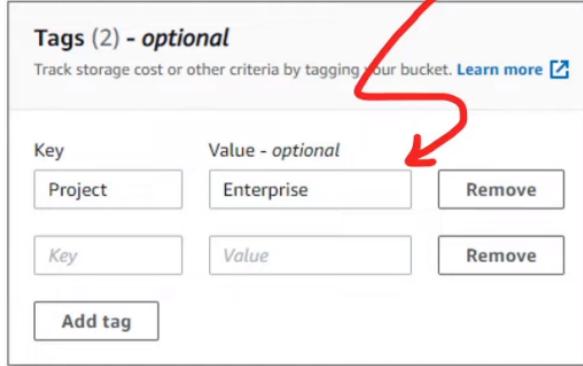


# Tagging

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A tag is a **key and value pair** that you can assign to AWS resources.



The screenshot shows the 'Tags (2) - optional' section of the AWS console. It includes a descriptive text about tracking storage cost or other criteria by tagging your bucket, a 'Learn more' link, and a table for managing tags. The table has two rows. The first row contains a 'Key' input field with 'Project' and a 'Value - optional' input field with 'Enterprise', followed by a 'Remove' button. The second row contains empty 'Key' and 'Value' input fields, also followed by a 'Remove' button. Below the table is an 'Add tag' button.

Tags allow you to organize your resources in the following ways:

- **Resource management**
  - specific workloads, environments eg. Developer Environments
- **Cost management and optimization**
  - Cost tracking, Budgets, Alerts
- **Operations management**
  - Business commitments and SLA operations eg. Mission-Critical Services
- **Security**
  - Classification of data and security impact
- **Governance and regulatory compliance**
- **Automation**
- **Workload optimization**

## Tag Examples

Dept = Finance

Status = Approved

Team = Compliance

Environment = Production

Project = Enterprise

Location = Canada

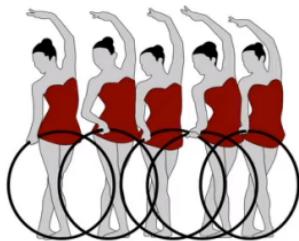


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# Resource Groups

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**Resource Groups** are a collection of resources that share one or more **tags**



Helps you organize and consolidate information based on your project and the resources that you use.

Resource Groups can display details about a group of resource based on

- Metrics
- Alarms
- Configuration Settings

At any time you can modify the settings of your resource groups to change what resources appear.

Resource Groups appears in the **Global Console Header** and Under **Systems Manager**

The image shows two screenshots of the AWS console. On the left, the Global Console Header is shown with the 'Services' dropdown open, revealing 'Resource Groups' as the selected item. A red arrow points from the text above to this 'Resource Groups' link. On the right, the 'Systems Manager' navigation menu is displayed under 'Application Management'. The 'Resource Groups' link is highlighted in orange and has a red arrow pointing to it from the text above. Other menu items include 'AppConfig' (marked as 'New') and 'Parameter Store'.



# Business Centric Services

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**Amazon Connect** is a **virtual call center service**. You can create workflow to route callers. You can record phone calls. Manage a queue of callers. Based on the same proven system used by the Amazon customer service teams.



**WorkSpaces** is **virtual remote desktop service** Secure managed service for provisioning either Windows or Linux desktops in just a few minutes which quickly scales up to thousands of desktops



**WorkDocs** is a **shared collaboration service**. A centralized storage to share content and files. It is similar to Microsoft SharePoint. Think of it as a shared folder where the company has ownership



**Chime** is **video-conference service**. It is similar to Zoom or Skype. You can screenshare, have multiple people on the call. It is secure by default and it can show you a calendar of your upcoming calls.



**WorkMail** is a **managed business email, contacts, and calendar service** with support for existing desktop and mobile email client applications. (IMAP). Similar to Gmail or Exchange.



**Pinpoint** is a **marketing campaign management service**. Pinpoint is for **sending targeted email** via SMS, push notifications, and voice messages. You can perform A/B testing or create Journeys (complex email response workflows)



**Simple Email Service (SES)** is a **transactional email service**. You **can integrate SES into your application to send emails**. You can create common template, track open-rates, keep track of your reputation.



**QuickSight** is a **Business Intelligence (BI) service**. Connect multiple data sources and quickly visualize data in the form of graphs with little to no programming knowledge.

