

Cloud Governance Principles

Course Description:

This Cloud Governance Principles whitepaper provides an introduction to cloud governance concepts and the growing importance of governance in cloud operations. Learn why cloud governance matters, the common problems that arise as cloud adoption scales, and the governance principles that help solve these problems. This course also covers best practices and practical examples of how cloud governance principles can be applied within organizations.

Target audience:

- Security Leader
- Financial Leader
- IT Leader
- Cloud Operations
- Software Engineer / Developer

Goals:

- Define cloud governance
- Better understand an organization's cloud adoption journey
- Describe the challenges of cloud governance at scale
- Define the Cloud Governance Principles - Account Management, Budget Enforcement, Continuous Compliance

Introduction	
<i>What is Cloud Governance?</i>	<p>Definition: A cloud Governance is a set of rules under which an organization can operate in the cloud to ensure ongoing compliance and long-term business objectives.</p> <p>Security Automation - Cloud Environment:</p> <ul style="list-style-type: none"> ▪ Manual Process with no Automation ▪ Online Workflow/Change Management with Rule Recommendations, Compliance Check but with some manual processes and Push ▪ Online Workflow/Change Management with Rule Recommendations, Compliance Check plus Automated Push/commit and Auto Verification ▪ Application-Center Rules & Management with Intent-Based (Golden Rules) ▪ Continuous, Adaptive Compliance & Enforcement with Recalibration to Eliminate Out-of-Band Changes <p>Governance-Case:</p> <ul style="list-style-type: none"> ▪ The ever-growing list of new cloud services being launched. ▪ The reality that your security boundary is now global in nature. ▪ The real risk of cloud budget exhaustion due to cost overruns that threaten profit and loss.
<i>Journey to Cloud Adoption</i>	<p>Step 1: Cloud Smart-Adoption</p> <ul style="list-style-type: none"> ▪ Limited Accounts/Subscription -Specific Systems -Manual Governance <p>Step 2: Growth - Complexity</p>

	<ul style="list-style-type: none"> ▪ Single Accounts/Subscription <ul style="list-style-type: none"> -Numerous Systems -Manual Governance <p>Step 3: Cloud at Scale</p> <ul style="list-style-type: none"> ▪ Multiple Accounts/Subscription <ul style="list-style-type: none"> -Numerous Systems -Manual Governance <p>Beyond Adoption: Cloud Lifecycle Management</p> <ul style="list-style-type: none"> ▪ Scale ▪ Optimization ▪ Compliance ▪ Innovation <p>Challenge at Scale:</p> <ul style="list-style-type: none"> ▪ Determine the current state of all cloud users & their access rights. ▪ IT Budgets ▪ Ensure deployments & operations are compliant with relevant legal regulatory, and/or contractual policies <p>Cloud Governance Principles:</p> <ul style="list-style-type: none"> ▪ Account Management ▪ Budget Enforcement ▪ Continuous Compliance
<i>Account Management</i>	<ul style="list-style-type: none"> ➤ Native access to all environments ➤ Self Service & Automation ➤ Building to the organizational structure
<i>Budget Enforcement</i>	<ul style="list-style-type: none"> ➤ Budget Transparency ➤ Agnostic Reporting ➤ Proactive Enforcement <p>Note: cloudtamer.io (a comprehensive cloud governance software that allows you to manage your cloud presence at scale)</p>
<i>Continuous Compliance</i>	<p>Policy & Compliance regimes</p> <p>Prevent: Establish boundaries to prevent non-compliance with cloud resources.</p> <p>Detect: Continuously monitor you cloud with compliance checks.</p> <p>Report: Keep eyes on compliance with clear visual indicators. Track violation found and addressed by compliance standard.</p> <p>Remediate: Enable automatic remediation of issues to fix compliance findings without manual intervention. Gain the visual clarity to find and address others manually.</p>

Link:

Cloudtamer.io:

<https://support.kion.io/hc/en-us/community/posts/360057849152-Episode-01-cloudtamer-io-Installation->

YouTube:

<https://www.youtube.com/watch?v=DXm36-6ac1I>