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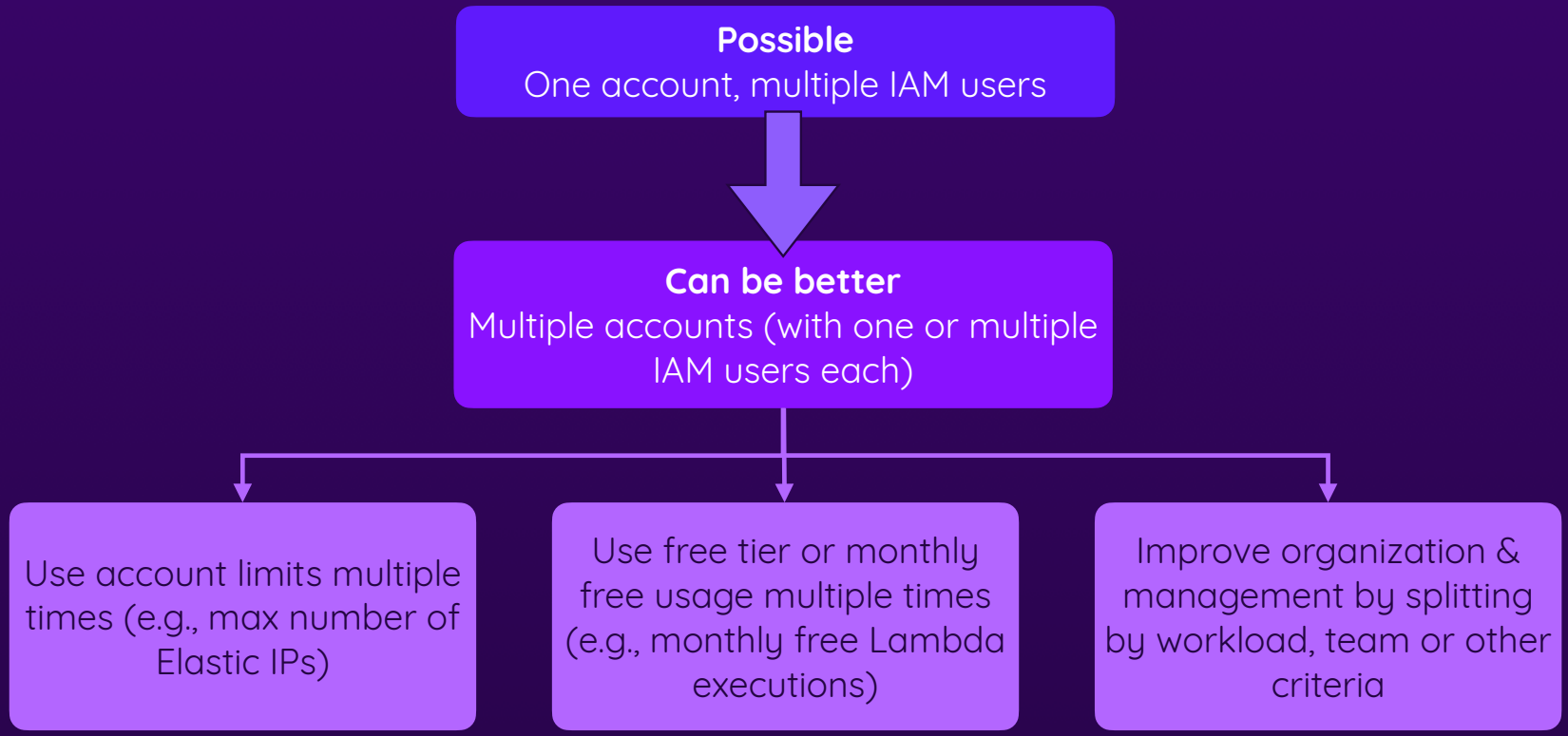
Cloud Management

Managing complex cloud environments efficiently

- Managing Multiple Accounts
- Deploying & Configuring Services Efficiently
- Managing Cloud Configuration At Scale

Using Multiple AWS Accounts



Multiple Accounts & Organizations

Manage multiple accounts via **AWS Organizations**

Advantages: Centralized billing, centralized management, use cross-account service configurations & more

Group accounts into organizational units (OUs) and enforce policies

Consolidated Billing

Multiple accounts, one bill

Utilize “Consolidated Billing” to get & pay a single bill for multiple accounts

Track charges across accounts & create consolidated reports

Share savings plans or volume pricing discounts across multiple accounts

Organizations & Control Tower

Manage multiple accounts via **AWS Organizations**

Create a **brand-new multi-account** environment

Advantages: Centralized billing, centralized management, use cross-account service configurations & more

Group accounts into organizational units (OUs) and enforce policies

Creates a best-practice multi-account environment for you

A great starting point for a multi-account strategy / company

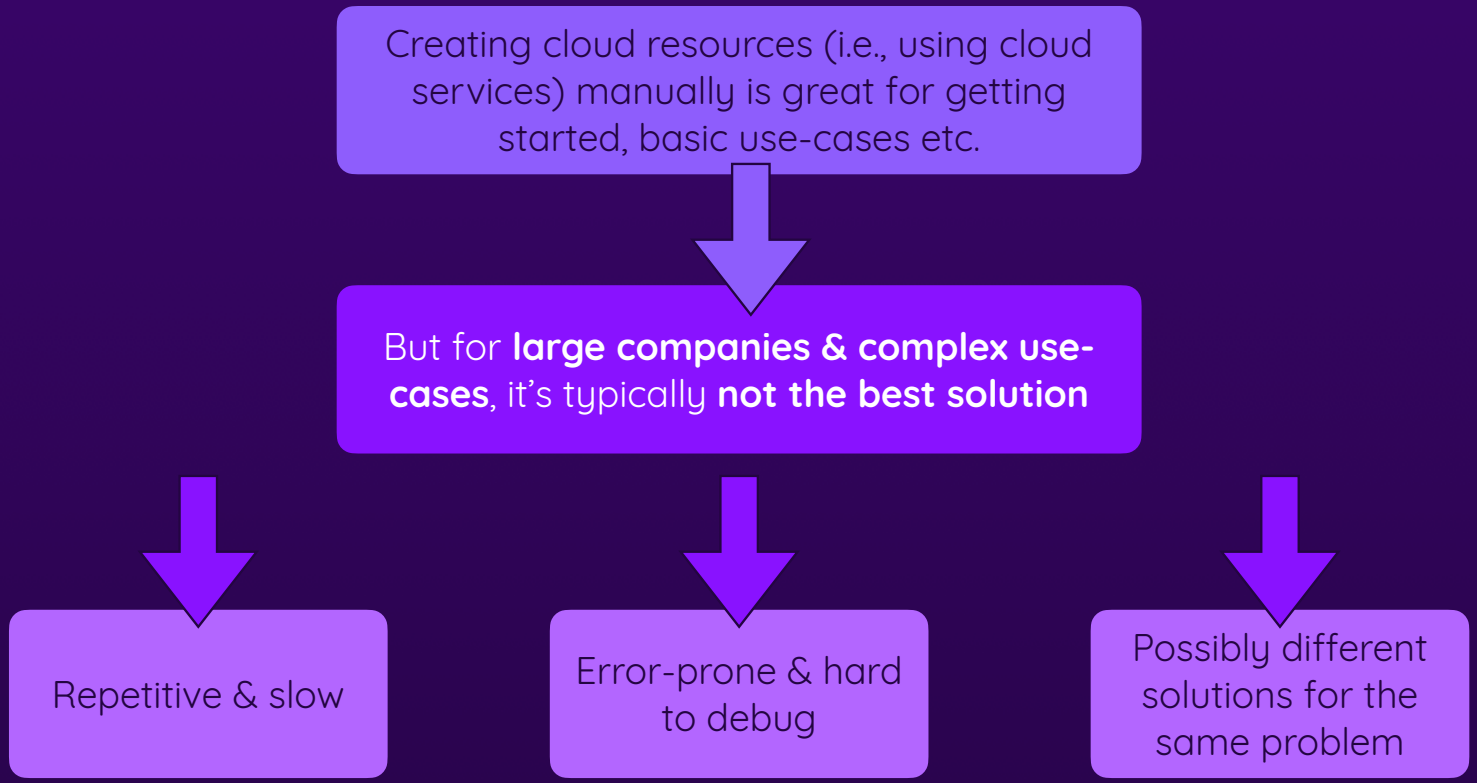
Budgets & Cost Management

Manage bills and costs with **Cost Explorer** & **Budgets**

View your bills (daily updated) and analyze your costs with the cost management tools provided (e.g., **Cost Explorer**)

Set budgets & alerts to control spending

Creating Cloud Resources Manually Is Bad



Using CloudFormation

Manage cloud resources with **Infrastructure as Code**

Model & define your cloud infrastructure declaratively

Configure dependencies & dynamic parameters

Automate infrastructure deployments & updates

Service & Workload Configuration

Manage **Workloads** Centrally via **Systems Manager**

- Manage application parameters via **AppConfig** or **Parameter Store**
- Manage server fleets from a central place (e.g., issue commands, update, changes)

Define & Share **Standardized Cloud Resources**

- **Proton** for serverless compute (Lambda) & containers
- **Service Catalog** for multi-service solutions
- **Resource Access Manager (RAM)** for shared resources

Control Service Configuration

- Use **AWS Config** to enforce service configurations
- Manage software license requirements via **AWS License Manager**

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Summary

Cloud Environments Can Become Complex

- Multiple accounts may be used to separate workloads or teams
- Configuring & controlling multiple accounts can be difficult
- **AWS Organizations** helps with managing multiple accounts
- Many services support multi-account environments by default

Working with Multi-Account Environments

- Use **AWS Organizations** (and **Control Tower** to get started)
- Many services like **Backup** support **Organizations**
- Create OUs and enforce organization-wide policies
- Share resources via **RAM**
- Manage billing centrally

Managing Workloads & Services

- Deploy environments with **CloudFormation**
- Manage applications via **Systems Manager**
- Application configuration via **AppConfig** or **Parameter Store**
- Standardized cloud “products” via **Proton** & **Service Catalog**
- Managing service configuration via **AWS Config**