Working with AWS



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Outline

Creating an AWS free tier account

- What is free tier?
- Walkthrough signup process
- How to stick to 100% free services

Navigating the AWS console

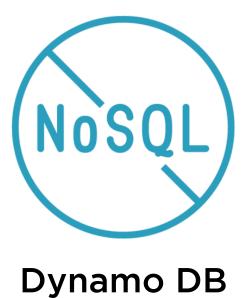
- Service areas & menus
- Services we will be using

Identity & Access Management (IAM)

- The basics of roles and policies
- IAM setup with the policy generator

AWS Free Tier - 12 Months of Free

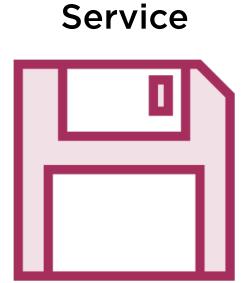








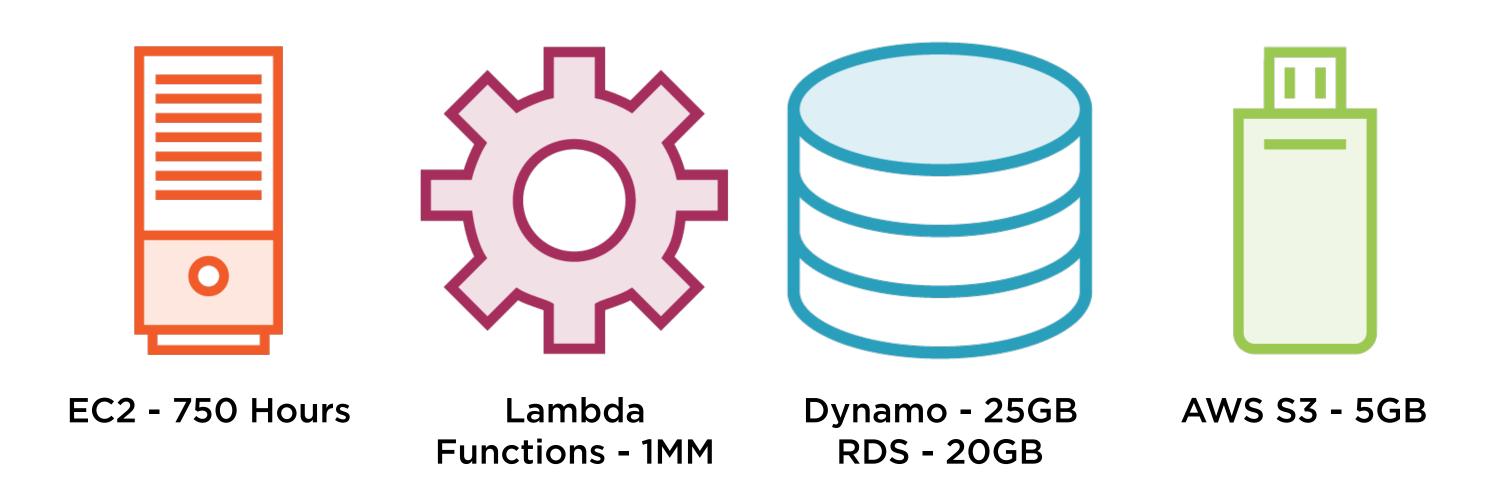




Simple Email

Simple Storage Service

Free Tier Examples



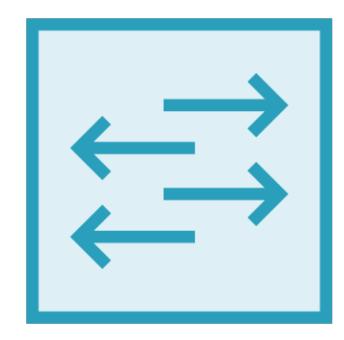
Building with Free Tier



Create static sites on S3



Database powered applications with EC2 and RDS



Scaleable APIs with Lambda and API Gateway

Demo

Free tier signup

- Walkthrough
- Finding service-specific information
- Avoiding unwanted expenses

AWS console

- Service areas
- Configuring our workspace
- Finding services we'll use

Identity and Access Management - Overview

A Few Key Concepts







Users

Groups

Roles

Users, Groups, Roles, and Policies



Users, Groups, Roles, and Policies



```
"Version": "2012-10-17",
"Statement": [
    "Effect": "Allow",
    "Action": "*"
    "Resource": "*"
```

Sample IAM Policy

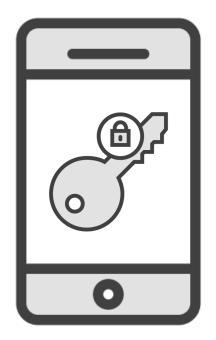
- **■JSON**
- **◄** Tracks policy versions

- **◄** Allow or deny access
- **◄** What actions can be taken?
- **◆On what AWS resources**

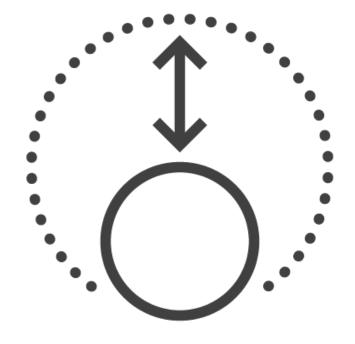
IAM Best Practices



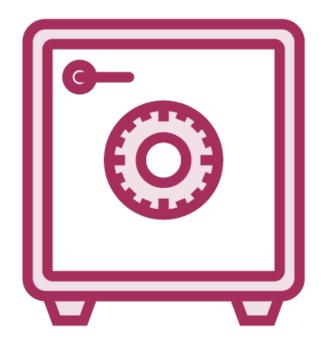
Strong password



Two factor authentication



Principle of Least Privilege



Root account caution!

Demo

AWS IAM Demo

- AWS Managed Policies
- AWS Policy Generator
- AWS IAM roles

Summary

What we've done

- Building with Free Tier
- Understand AWS services
- Created IAM policies

What's next?

- Our first Lambda project