

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



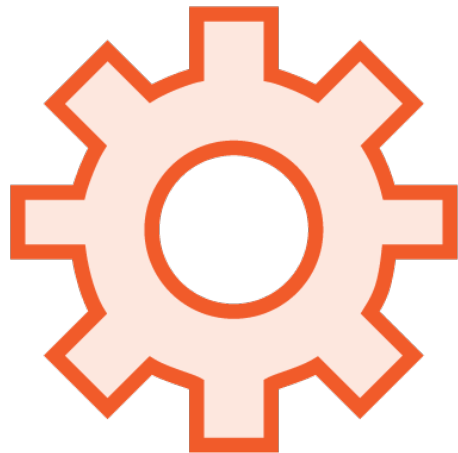
Amazon EC2



Dynamo DB



**Simple Email
Service**



Lambda



**Relational
Database Service**

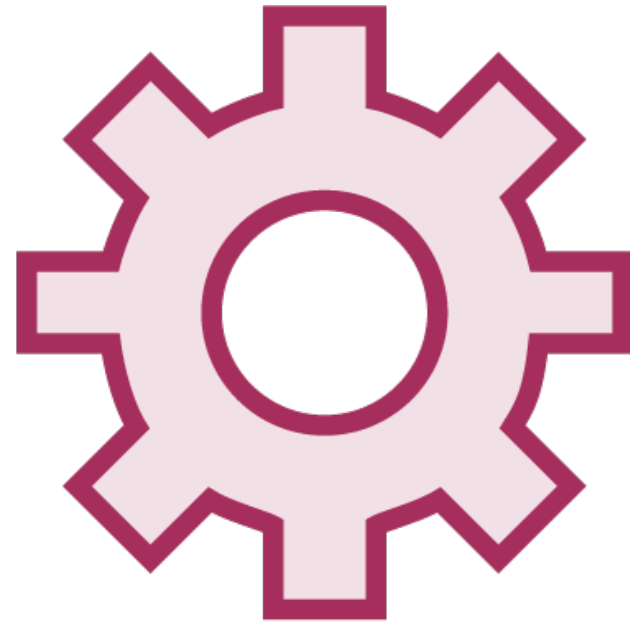


**Simple Storage
Service**

Free Tier Examples



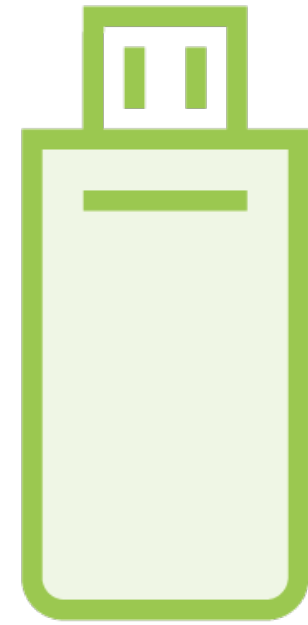
EC2 - 750 Hours



**Lambda
Functions - 1MM**



**Dynamo - 25GB
RDS - 20GB**



AWS S3 - 5GB

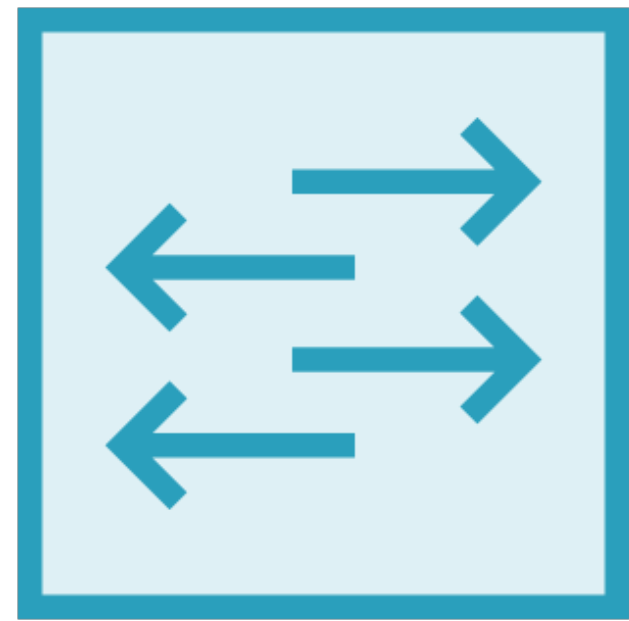
Building with Free Tier



**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

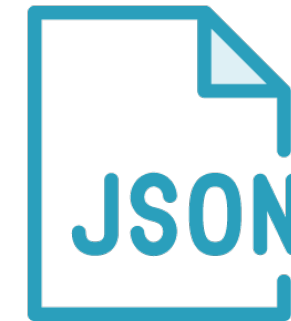
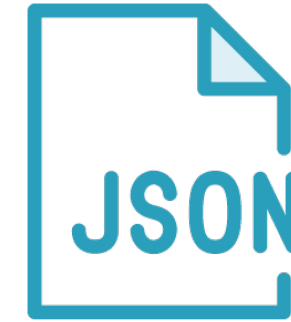


Groups

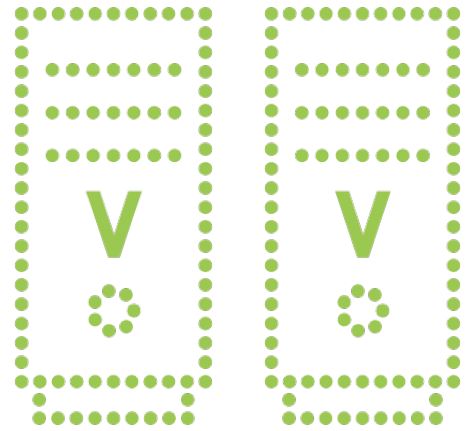


Roles

Users, Groups, Roles, and Policies



Users, Groups, Roles, and Policies



Sample IAM Policy

◀ JSON

◀ Tracks policy versions

◀ Allow or deny access

◀ What actions can be taken?

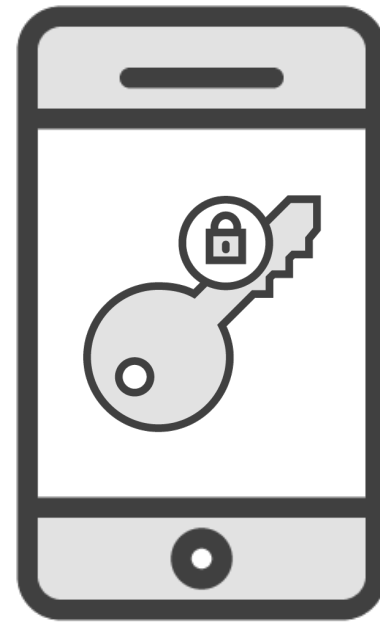
◀ On what AWS resources

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

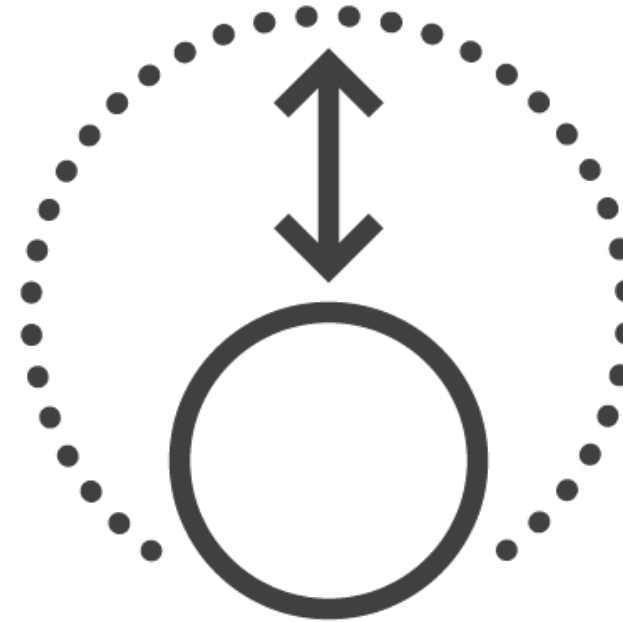
IAM Best Practices



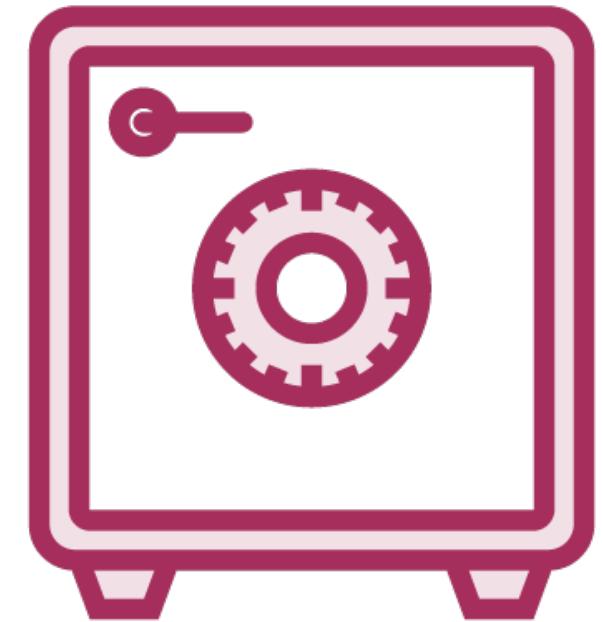
Strong password



**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