



# AWS!

*Code 401 (Class 18)*

# <http://aws.amazon.com>

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- Create an account and login
- Whoa! That's a lot of services
- Cloud Computing (EC2, Data Services, etc)
- Stores Data (S3)
- Pay for what you use (storage and compute cycles)
- 99.999999999999999% Uptime
- Many SDK's in Node are available
  - SDK = library supplied by the vendor
  - Module = library that anyone else writes

# S3 - What is it?

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## **Some Terms:**

Bucket: File System

Key: File Name

Object: The actual data (BLOB)

Access Control List (ACL): Permissions for each thing

# S3 - Usage

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## Create a bucket

## POST a request to it

- Requires an
  - AWS Client Key (Public)
  - Client Secret (Private)
- To an endpoint (like /test)
- Content-Type: multipart/form-data
- The actual file (like an image or song or whatever)
- Goes to a parser (called “multer”) not unlike bodyParser
- Stream it to AWS

## Get back some JSON (with a URL)

## Store it in our database

## Respond to the user that uploaded the file

# S3 - Testing

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**Every time you access AWS = \$\$**

**Mocks / Testing the interface**

(AWS is already tested)

# S3 - Coding

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## AWS SDK

<http://docs.aws.amazon.com/AWSJavaScriptSDK/latest/AWS/S3.html>

<http://docs.aws.amazon.com/sdk-for-javascript/v2/developer-guide/installing-jssdk.html>

## This is enormous.

- Download the samples
- Read, play, fail, repeat

## What do we specifically care about?

`upload()`

`deleteObject()`

# S3 - Coding

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**Npm i -S aws-sdk multer**

**Npm -i D aws-sdk-mock**