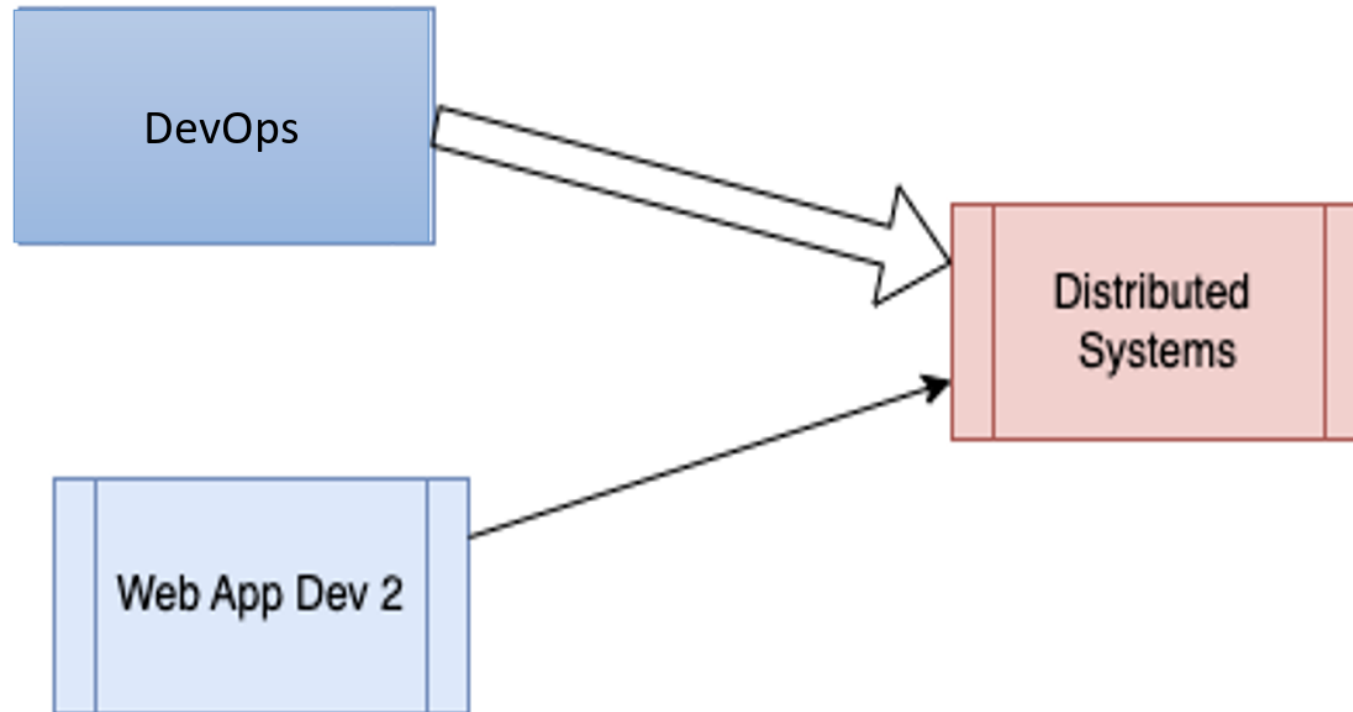# Cloud App Development
(aka Distributed Systems)

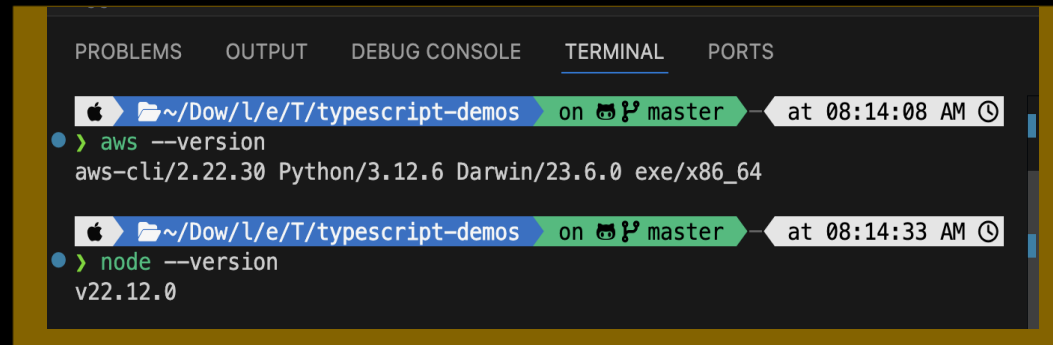Diarmuid O Connor (doconnor@wit.ie

Context

Overview

- ". . .to comprehend the <u>architecture</u> of a modern, distributed (cloud-based), service-oriented application and acquire the skills to <u>develop and deploy</u> same for a <u>constrained</u> set of requirements . . ." (Module Spec.)

- Key themes:
  - Infrastructure As Code (IaC)
  - Serverless architecture
  - Scalability.
  - Event-driven architecture

- Language: TypeScript

Pre-requisits

- A 'personal' AWS account (https://aws.amazon.com/)
- Installed locally:
  - AWS CLI (see https://docs.aws.amazon.com/cli/latest/userguide/getting-started-install.html)
  - NodeJS platform (v20.x)
  - VS Code editor.
  - Git tool.

- A GitHub account.
- Knowledge of JavaScript.

Pre-requisits

- The (AWS) Management Console
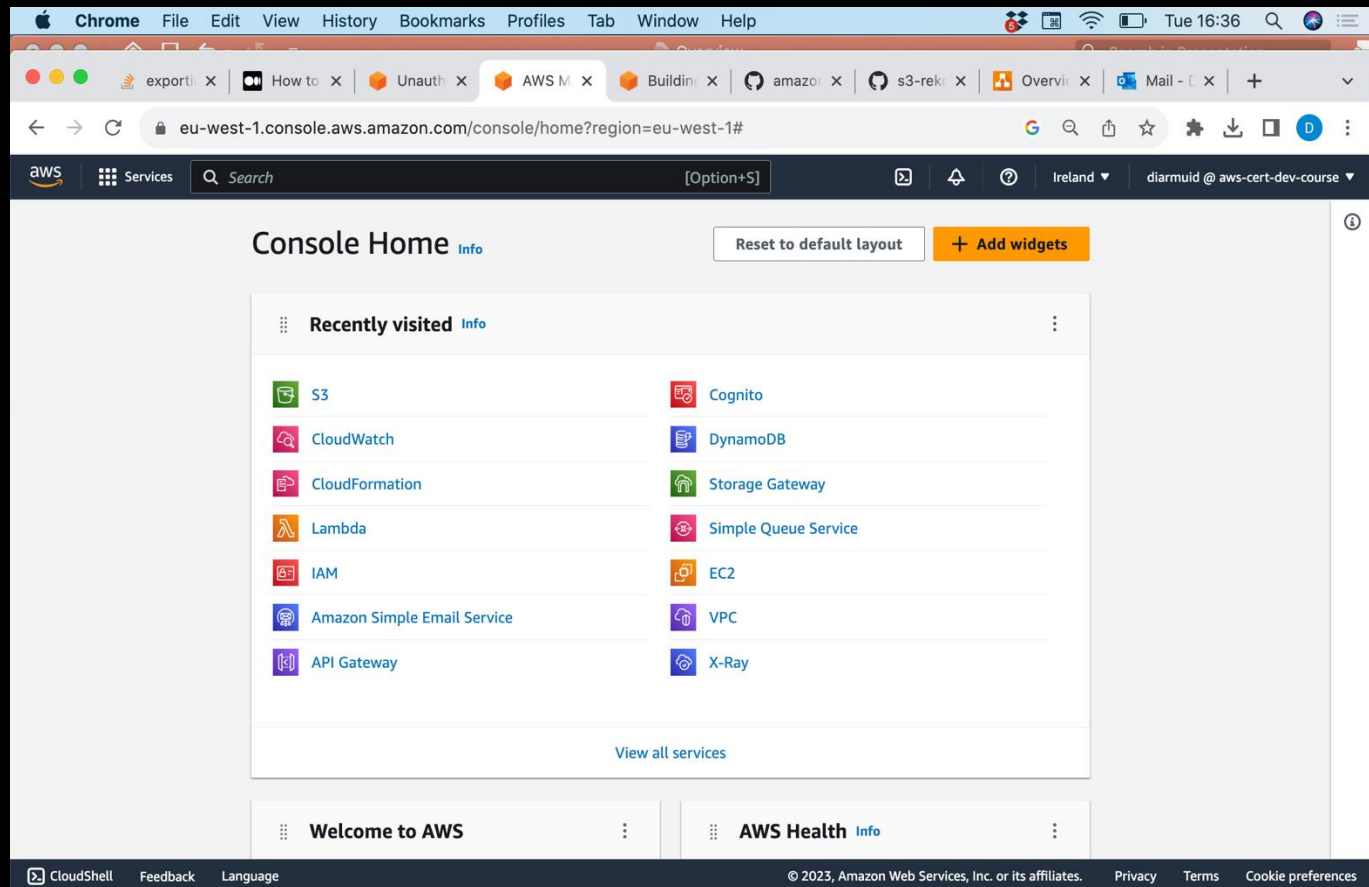
Student Information

- Contact hours:
  - Two lectures (Online) + Two lab hours.
- Assessment:
  - 100% Continuous Assessment. Breakdown (approx.):
    - Lab work hand-ups (10%)
    - One assignment (45%)
    - Lab-based exam (Week 12/13 – 45%)
- Resources:
  - Website https://tutors.dev/course/cloud-app-dev-setu-waterford
  - Moodle - https://moodle.wit.ie/course/view.php?id=209056
    - For assignment submissions only.

Content (The Website)