

Distributed Systems

Overview

- ". . . to comprehend the <u>architecture</u> of a modern, distributed (cloud-based), service-oriented application and 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
 - Scalability.
 - Microservices architecture
 - Event-driven architecture
- Language: TypeScript

Pre-requisits

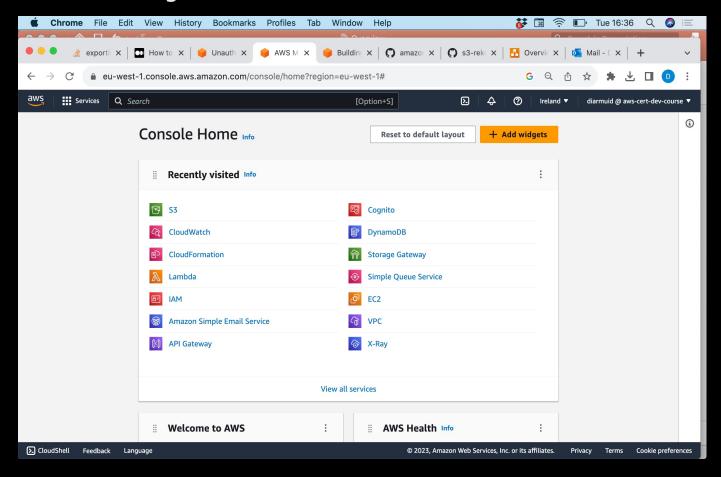
- An AWS account (https://aws.amazon.com/)
- Installed locally:
 - AWS CLI installed locally (see https://docs.aws.amazon.com/cli/latest/userguide/gettingstarted-install.html)
 - NodeJs platform
 - VS Code editor
 - Git tool
- A GitHub account
- Knowledge of JavaScript

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diarmuidoconnor
aws-cli/2.2.28 Python/3.8.8 Darwin/19.6.0 exe/x86_64 prompt/off
diarmuidoconnor
v18.13.0

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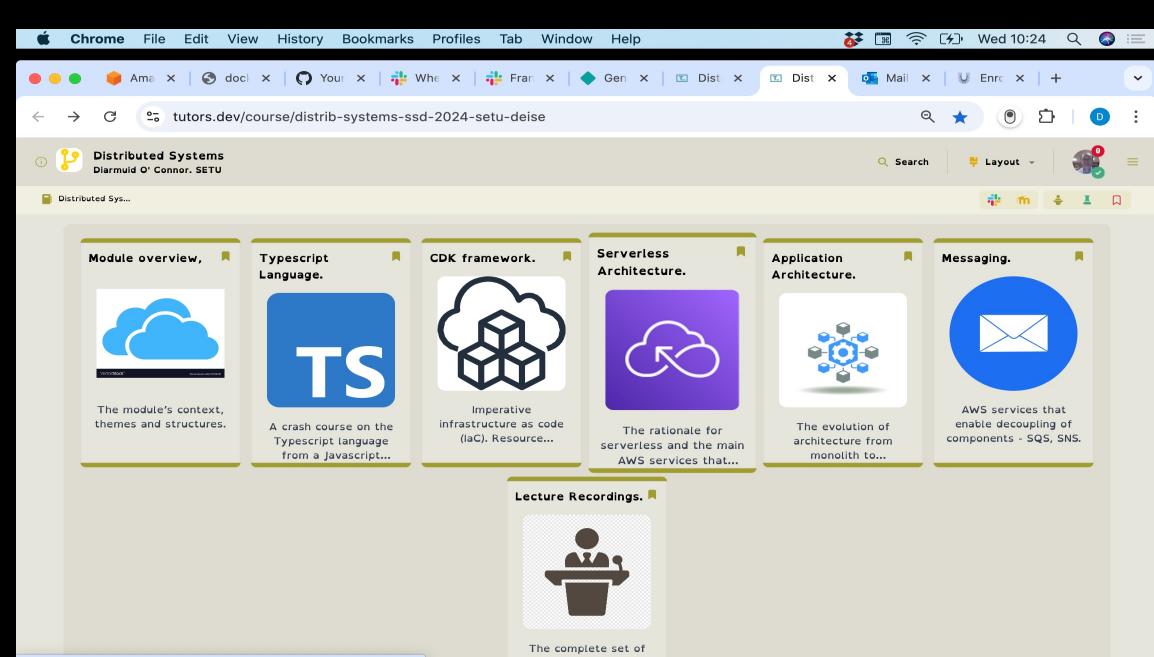
Pre-requisits

• The (AWS) Management Console



Module facts

- Contact hours:
 - Two lectures (Online) + Two lab hours.
- Assessment:
 - 100% Continuous Assessment
 - Lab work handups (15%)
 - Two assignments (40%)
 - Lab-based exam (Week 13 45%)
- Resources:
- Website https://tutors.dev/course/distributed-systems-setu-deise
- Moodle https://moodle.wit.ie/course/view.php?id=209056
 - For assignment submissions only.
 - Self-enrolment Use Enrolment key = ds24



lecture videos.