



Distributed Systems

BSc (H) Software Systems Development – Year 4 BSc (H) Software Systems Practice – Year 4

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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
 - Scalability.
 - Microservices architecture
 - Event-driven architecture
- Language: TypeScript

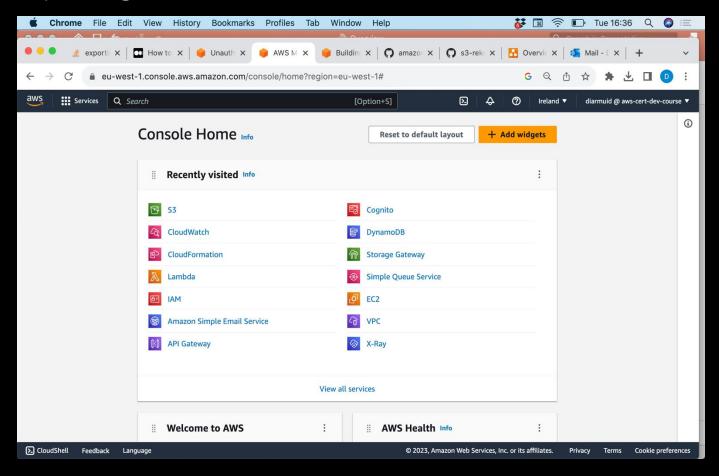
Pre-requisits

- An 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
 - VS Code editor
 - Git tool
- A GitHub account
- Knowledge of JavaScript



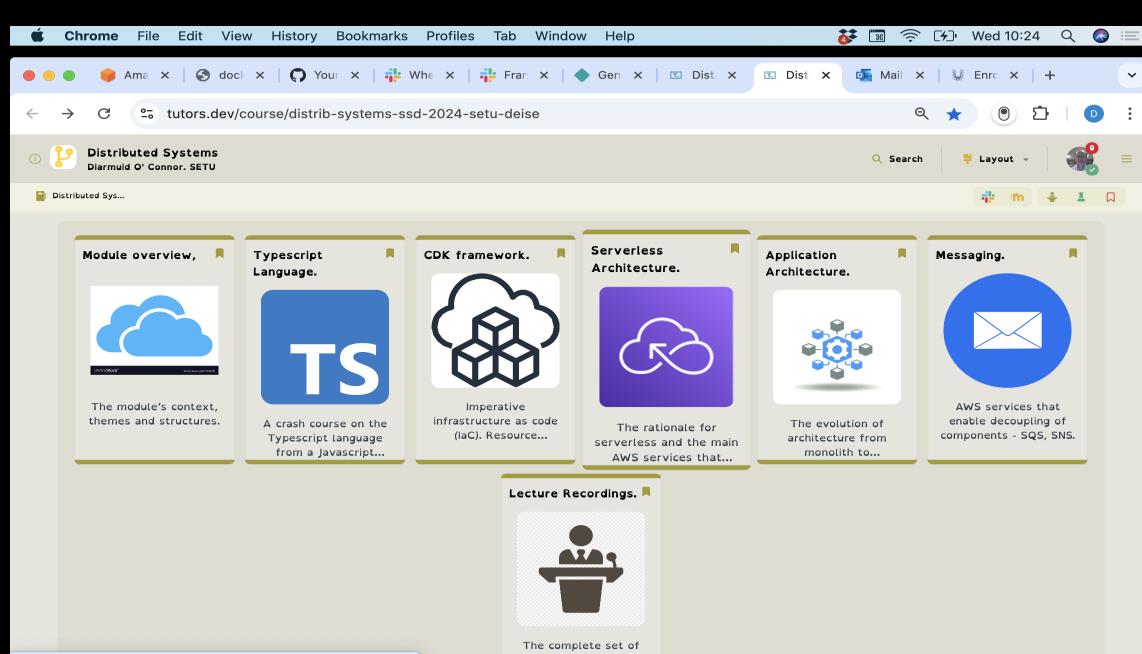
Pre-requisits

• 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%)
 - Two assignments (50%)
 - Lab-based exam (Week 13 40%)
- Resources:
 - Website https://tutors.dev/course/distributed-systems-setu-waterford
 - Moodle https://moodle.wit.ie/course/view.php?id=209056
 - For assignment submissions only.
 - Self-enrolment Use Enrolment key = ds2025



lecture videos.