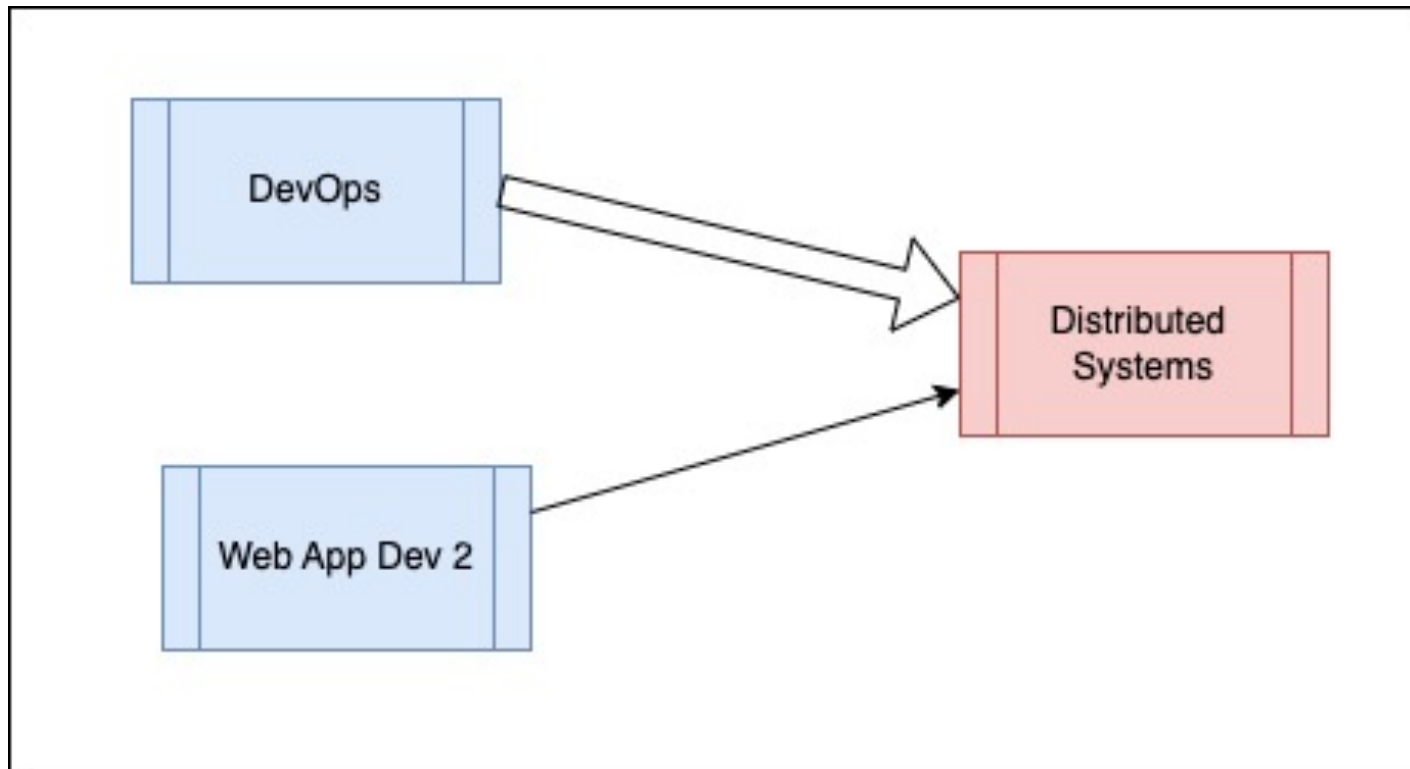




Distributed Systems

Context.



Overview.

- to comprehend the architecture of a modern, distributed (cloud-based), service-oriented application and the skills to develop and deploy same for a constrained set of requirements
- Key themes:
 - Infrastructure As Code (IaC)
 - Serverless
 - Scalability.
 - Microservices architecture
 - Event-driven architecture
- Language: TypeScript

Pre-requisites

- **An AWS account.**
- **AWS CLI**
- **NodeJs platform**
- **VS Code editor**
- **Git and GitHub**
- **JavaScript**



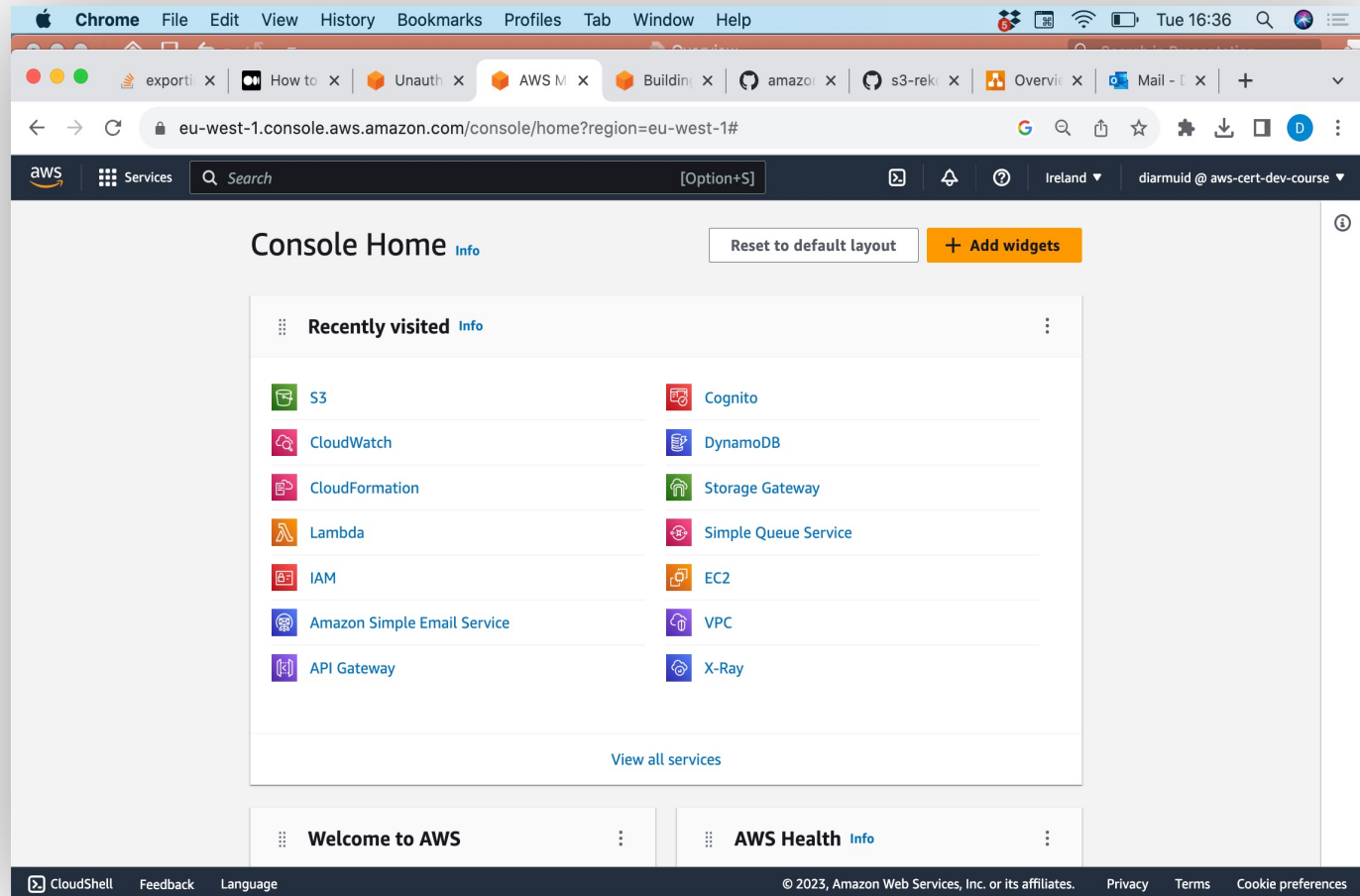
A terminal window with a dark background and light-colored text. The prompt is 'diarmuidoconnor'. The first command is 'aws --version', which outputs 'aws-cli/2.2.28 Python/3.8.8 Darwin/19.6.0 exe/x86_64 prompt/off'. The second command is 'node -v', which outputs 'v18.13.0'. The terminal status bar at the bottom shows 'You, 1 second ago', 'Ln 44, Col 9', 'Spaces: 2', 'UTF-8', 'LF', and a file icon.

```
diarmuidoconnor ~$ aws --version
aws-cli/2.2.28 Python/3.8.8 Darwin/19.6.0 exe/x86_64 prompt/off
diarmuidoconnor ~$ node -v
v18.13.0
diarmuidoconnor ~$
```

φ You, 1 second ago Ln 44, Col 9 Spaces: 2 UTF-8 LF { }

Pre-requisites

- **The (AWS) Management Console**



Structure & Resources

- **Contact hours:**
 - Two lectures (Online)
 - Two lab hours
- **Assessment**
 - 100% Continuous Assessment
 - Lab work handups
 - Two assignments
- **Resources:**
 - Website - <https://shorturl.at/ktzGJ>
 - Moodle (Assignments) - <https://moodle.wit.ie/course/view.php?id=199949>
 - Self-enrolment key – ds2023
 - Slack – <https://shorturl.at/dlvN0>