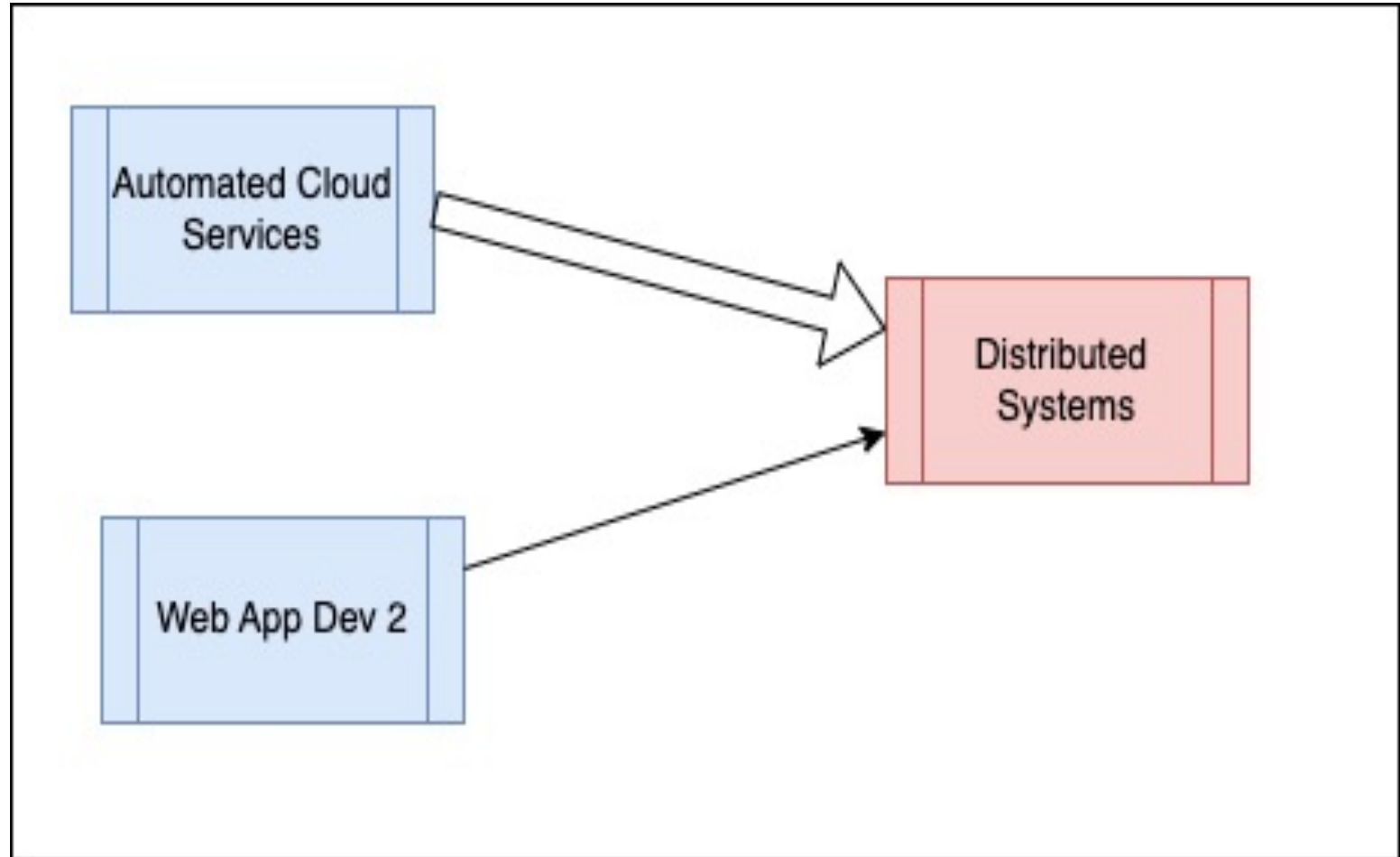




Distributed Systems

Context.

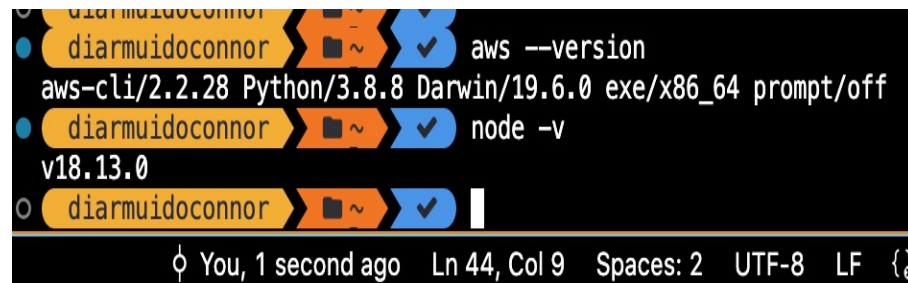


Overview.

- 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 (. <https://aws.amazon.com/>)**
- **AWS CLI installed locally (see <https://docs.aws.amazon.com/cli/latest/userguide/getting-started-install.html>)**
- **NodeJs platform;**
- **VS Code editor**
- **Git and GitHub**
- **JavaScript**

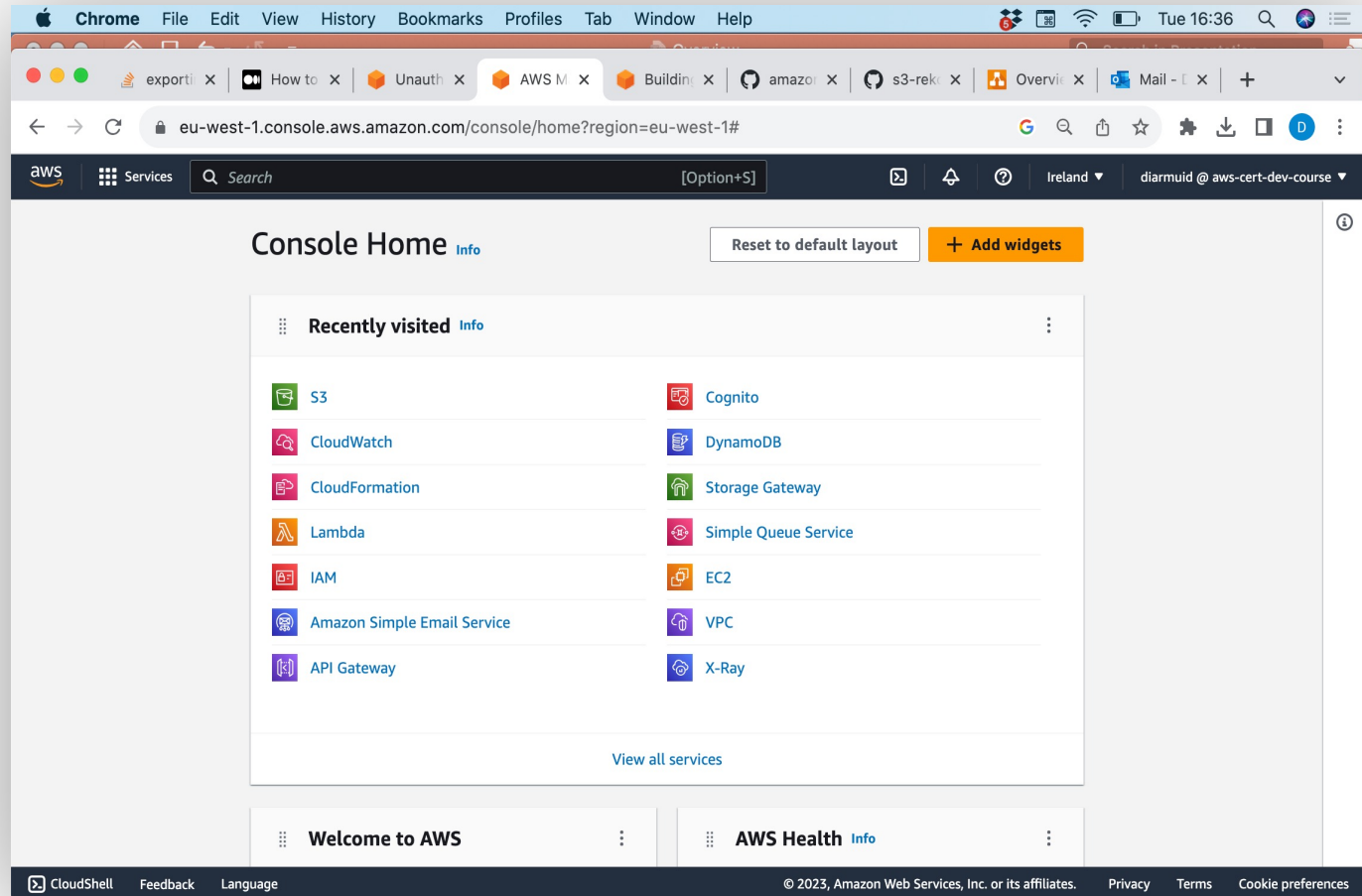


```
diarmuidoconnor ➤ ~ ➤ ✓ aws --version
aws-cli/2.2.28 Python/3.8.8 Darwin/19.6.0 exe/x86_64 prompt/off
diarmuidoconnor ➤ ~ ➤ ✓ node -v
v18.13.0
diarmuidoconnor ➤ ~ ➤ ✓
```

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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://tutors.dev/course/distrib-systems-ssd-2024-setu-deise>
 - Moodle (Assignments) - <https://moodle.wit.ie/course/view.php?id=200513>
 - Slack – (Same workspace as for Agile module)