

CLOUD COMPUTING ARCHITECTURE

WELCOME



CONTENT TODAY

- **Unit overview**
 - Unit outline and Canvas
 - AWS certification
 - Labs, Assessment
- **Introducing cloud computing**
- **AWS Global Infrastructure**

COURSE DELIVERY

Lecture:

- Lecture recordings to be uploaded to *Canvas | Weekly Activities* on the week.

Labs:

- Via Collaborate Ultra, if not on campus.
- 2 ways to get labs marked off:
 - Demonstrate to your tutor during the lab (recommended)
 - Document your labs with screenshots and submit to Canvas | Assignments | Labs

This unit embeds material prepared by AWS Academy covering 2 courses:

- Academy Cloud Foundations (ACF) → AWS Cloud Practitioner Certification
- Academy Cloud Architecting (ACA) → AWS Solutions Architect – Associate

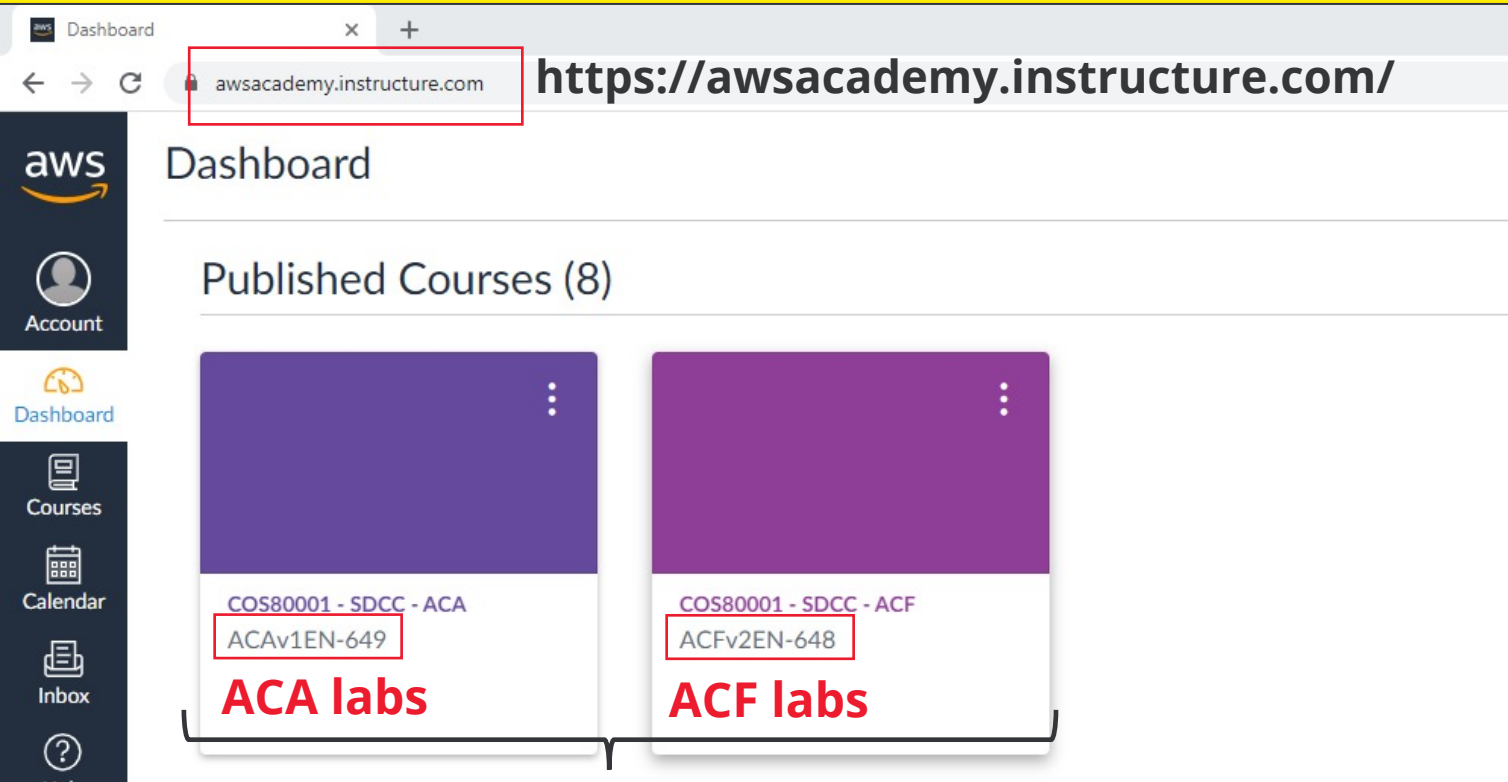
Material includes:

- Lecture notes
- Multiple-choice assessments
- Lab exercises



Swinburne SDCC Canvas tour ...

AWS ACADEMY CANVAS



Extra learning materials, complimentary quizzes and labs can be accessed via Canvas shells set up by AWS Academy.

Invitation emails have been sent. Join those 2 classes before your first tute.

Instructions and more details under **Getting Started** menu on Canvas



ASSIGNMENTS WORKING ENVIRONMENT

Assignments are to be implemented on AWS platform. Two ways to access the AWS platform:

1. **Vocareum sandbox environment (recommended):**

- Invite emails will be sent out soon.
- Accessible through Vocareum (inside AWS Canvas) – a third party site.
- No cost to you, you'll be given US\$100 credit. **Be careful how you use your AWS resources so you don't run out of credit!**
- Will expire at the end of the semester.
- Run in a controlled environment, some restrictions applied.
- Teaching staff will also be able to access this environment to mark or troubleshoot your assignments.

2. **Actual production environment (not recommended):**

You can use your personal AWS account (also called free-tier account) to complete the assignments.

Note: you may have to spend money out of your pocket if you do not manage your usage properly!

TO GAIN A PASS GRADE IN THIS UNIT...

- **Complete all required ACF/ACA labs**
 - Completed using automatically generated infrastructure (via AWS Academy Canvas site)
 - Correct function checked off by your tutor in the lab
 - Alternatively, evidence of their completion uploaded to Swinburne Canvas – note deadlines.
- **Successfully complete Assignments 1A and 1B**
 - Submitted to Swinburne Canvas
 - Must demo to your tutor in your assigned labs in Weeks 4 and 6.
- **Pass the two online multiple-choice-question (MCQ) tests**
 - Held in the lecture time Weeks 7 and 12.
- **Gain more than 50% final grade.**

TO GAIN HIGHER GRADES...

- **Credit/Distinction**

- Successfully complete Assignments 1 and 2.
- Assignment 2 due Week 9, demo to your tutor in the same week.

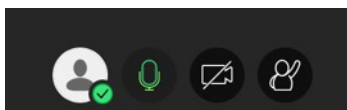
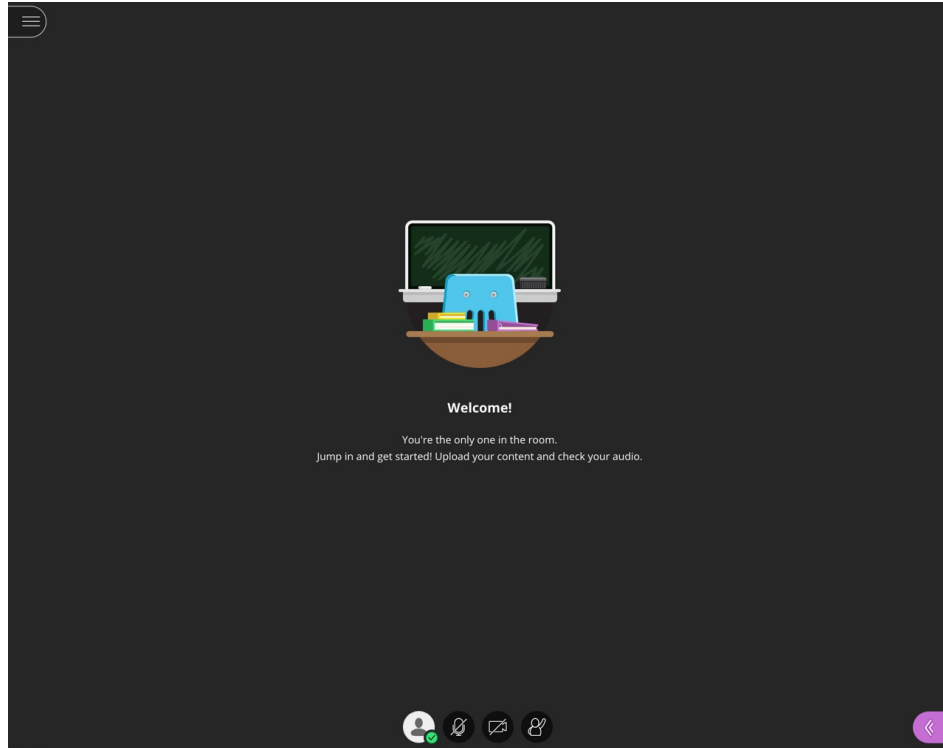
- **High Distinction**

- Meet Distinction requirements plus complete Assignment 3.
- Assignment 3 due Week 12, interview in the same week or the week after.

COLLABORATE ULTRA



COLLABORATE ULTRA SESSION

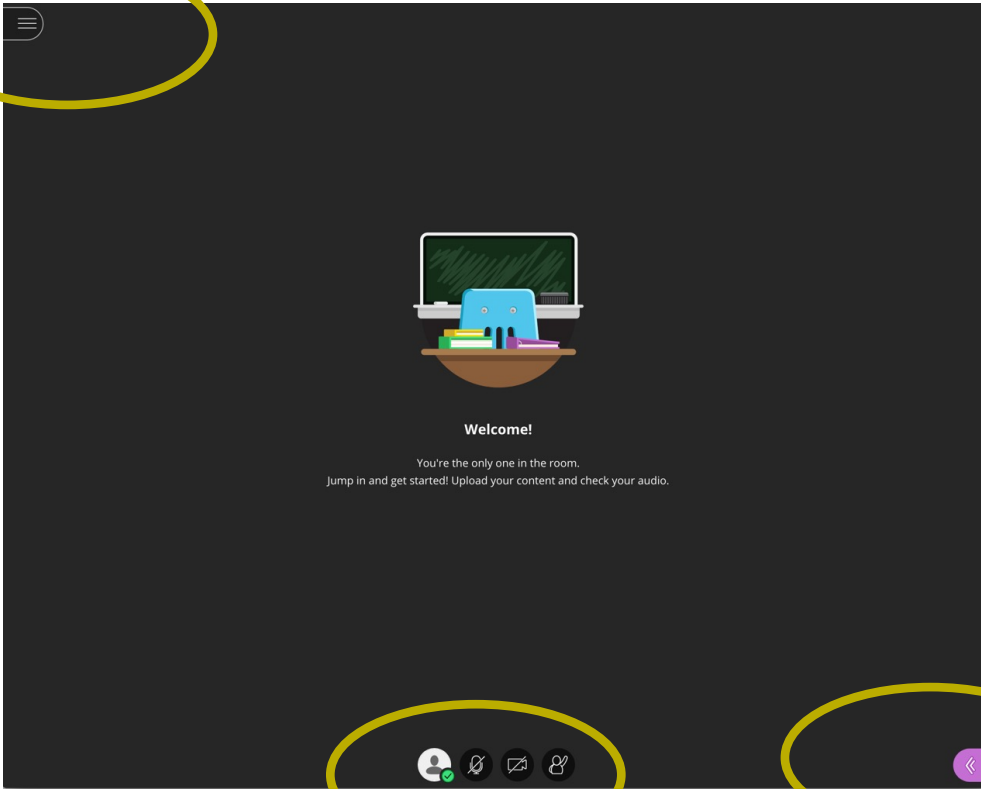


Audio and Video
controls

- You are in the Collaborate Ultra Main Room.
- Your tutor is the Moderator and control the room
- It may take some time for everyone to arrive and get settled in. Please keep working while we wait.
- When you first join the room your tutor will have disabled voice and video sharing.
- You will need to turn your microphone if you want to talk. Consider your internet connection before turning on your video.
- Please be patient as we get everyone familiar with a new way of working!

COLLABORATE ULTRA SESSION

Session Menu

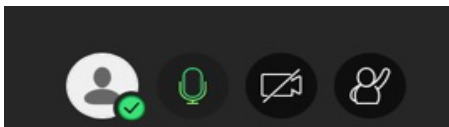
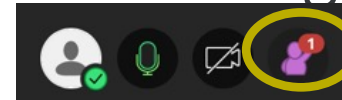


Audio and
Video Control

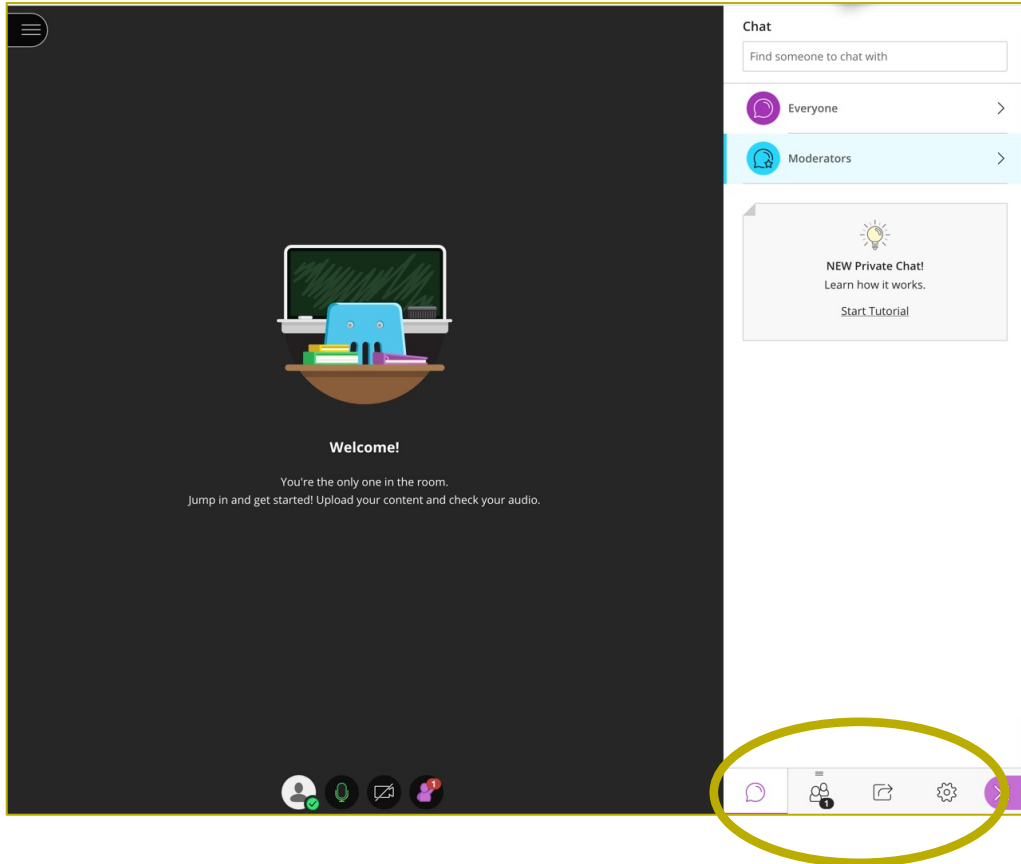
Collaborate
Panel Reveal

Main Room

- Mute your microphone unless you need to talk (especially if you have a lot of background noise)
- 'Raise your hand' to gain tutors attention
- To access chat and other file share features reveal the Collaborate panel



COLLABORATE ULTRA SESSION

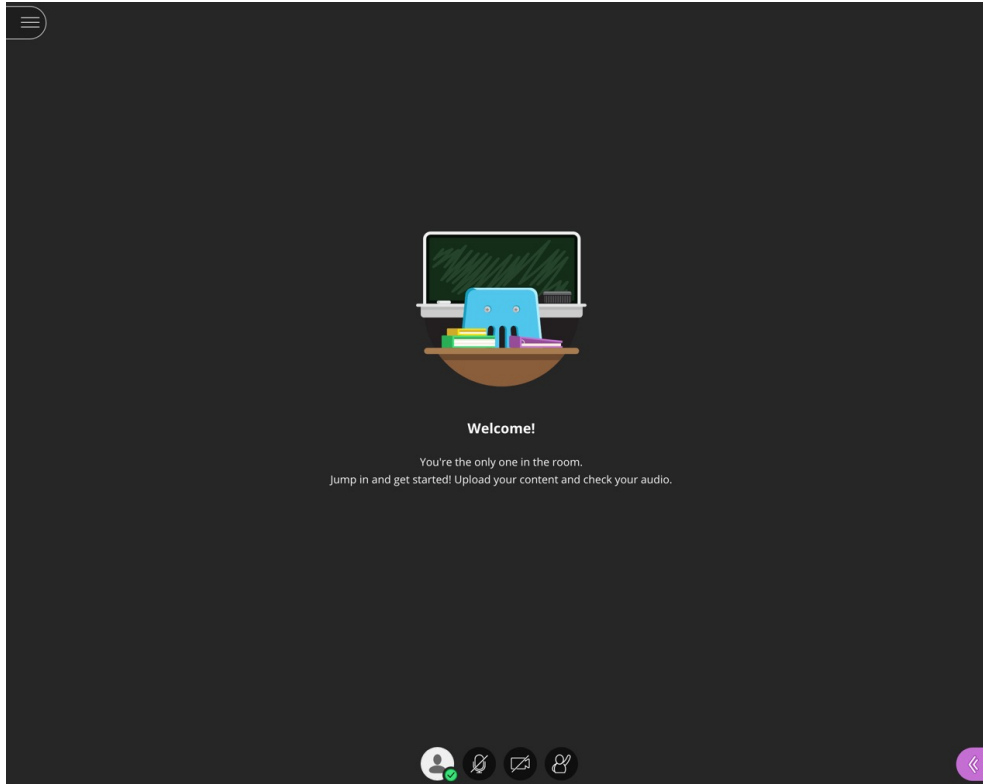


Main Room

- Use Chat (or email) if you are having trouble with connection and can't use audio

Collaborate
Panel Tabs

COLLABORATE ULTRA SESSION – BREAKOUT ROOM



Main Room

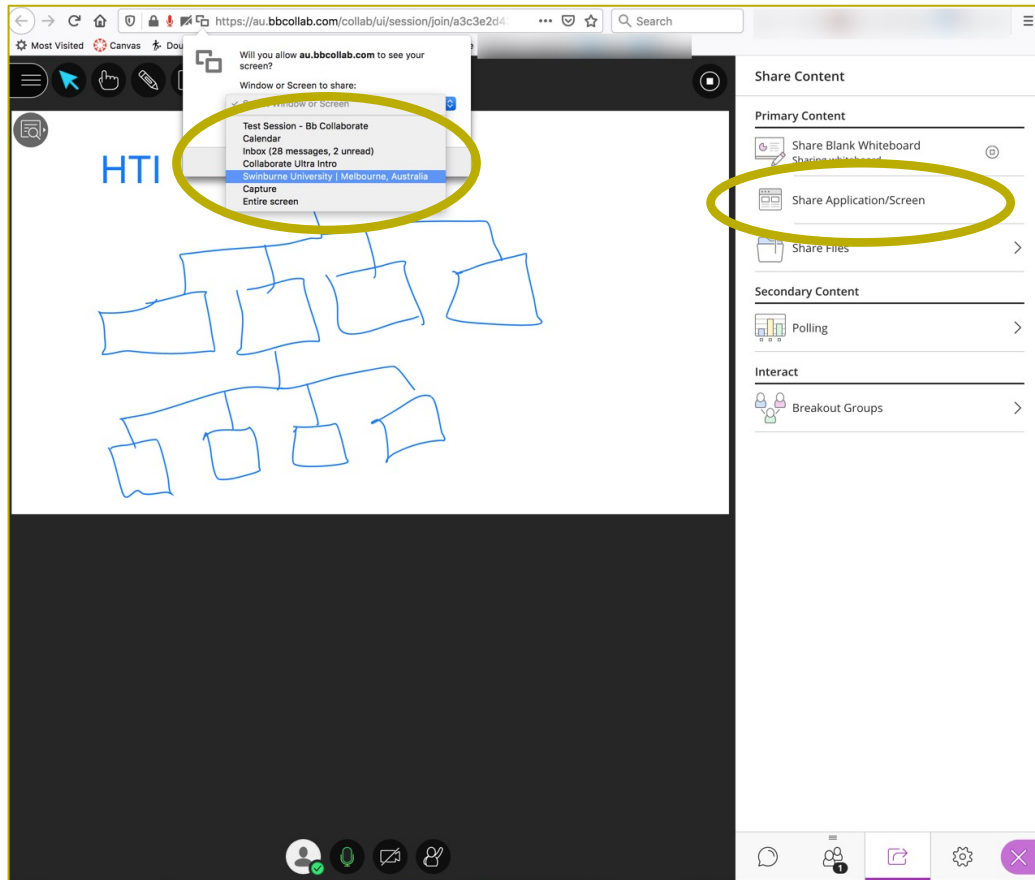


Breakout Room
"Demo"

- Your tutor will introduce the Tutorial/Tasks in the Main Room
- If you want to ask a question regarding your lab exercises or when you are ready to demonstrate complete of your lab raise your hand
- When your tutor is ready and the Demo Breakroom is free your tutor will add you to the room
- You can then share your screen with the tutor
- Your tutor should also be able to log into your AWS Vocareum lab if extra help needed.

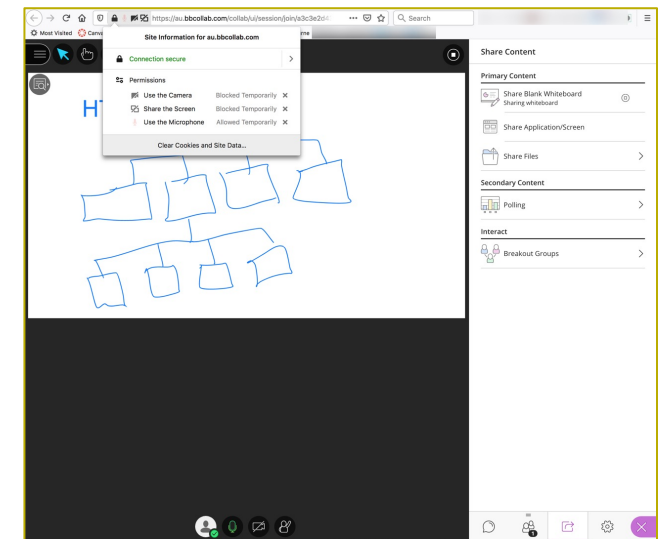
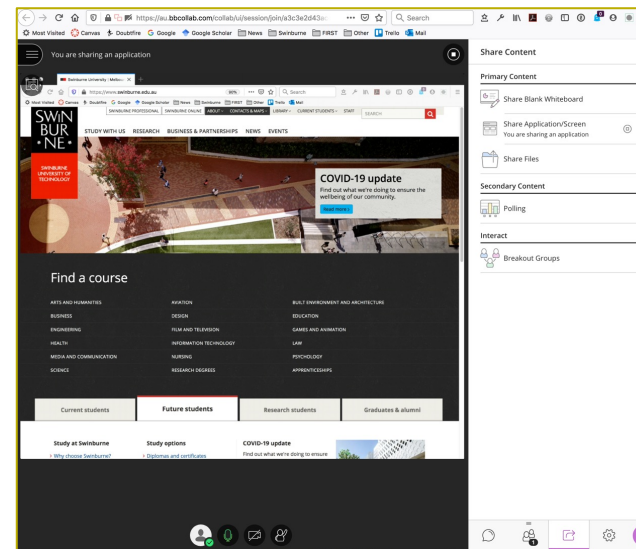
***When your tutor is in a Breakout room, they won't be visible to the students in the Main room
– Don't panic – they might still be in the Collaborate Ultra session***

COLLABORATE ULTRA SESSION

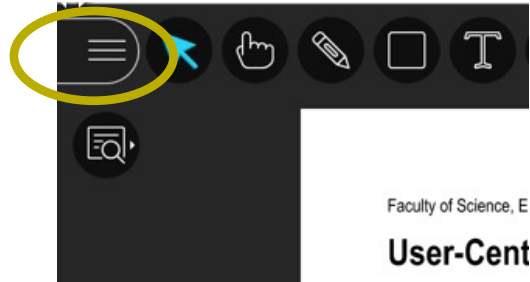


Share Application/Screen in your Breakout Room

- choose screen to share
- if share screen stops working, check what your browser is 'allowing'



COLLABORATE ULTRA SESSION



To leave session

- use white reveal control top left hand corner
- then select 'Leave Session' at bottom of Session menu

