

OFFICE HOURS – THIS WEEK

"Tuesday: (After Quiz)

• 6:30 to 7:30 pm - CP 229 & Zoom

"Thursday (After Class):

• 6:00 pm to 7:00 pm - CP 229 & Zoom

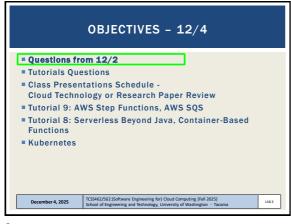
"Or email for appointment

> Office Hours set based on Student Demographics survey feedback

TCSS452/S62;Software Engineering for Cloud Computing [Fall 2025]

School of Engineering and Technology, University of Washington Tacoma

1



ONLINE DAILY FEEDBACK SURVEY

■ Daily Feedback Quiz in Canvas – Take After Each Class
■ Extra Credit
for completing

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Pages

Files
Quizzes
Collaborations
UW Ubranies
UW Resources

TCSS 562 - Online Daily Feedback Survey - 10/5
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UW Resources

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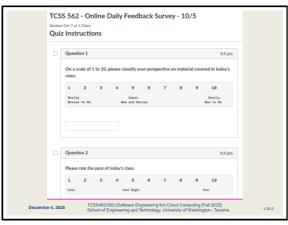
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MATERIAL / PACE

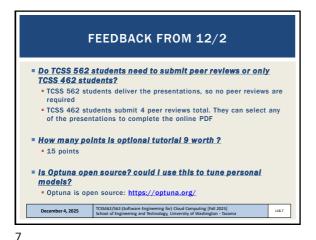
■ Please classify your perspective on material covered in today's class (45 respondents, 41 in-person, 4 online):
■ 1-mostly review, 5-equal new/review, 10-mostly new
■ Average - 5.30 (↓ - previous 6.17)

■ Please rate the pace of today's class:
■ 1-slow, 5-just right, 10-fast
■ Average - 4.93 (↓ - previous 5.12)

December 4, 2025

| TCSS462/962/Software Engineering for) Cloud Computing (Fall 2025)
| School of Engineering and Technology, University of Washington - Tacoma

Slides by Wes J. Lloyd L18.1



TERM PROJECT SUBMISSION

Grading time constraint: submission > Sat Dec 13th @11:59am\_nat graded
EXTRA CREDIT FOR EARLY SUBMISSION
Submission timestamp used to determine extra credit
By 2pm Wednesday December 10: +5(%) points
By 2pm Thursday December 11: +3(%) points
By 2pm Friday December 12: +1(%) point
GROUPS SHOULD SUBMIT A TERM PAPER OR PRESENTATION NOT BOTH
The following submissions are required:
1. (TCSS 562) PDF of the term paper
2. (TCSS 462) PDF of the term paper
2. (TCSS 462) Video recording of project presentation (at least one of the following: mp4 file, link to YouTube video, link to mp4 file hosted on Google Drive, or link to Zoom recording)
4. (TCSS 462/562) complete project source code - tar.gz or zip file

December 4, 2025

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OBJECTIVES - 12/4

 Questions from 12/2
 Tutorlals Questions
 Class Presentations Schedule Cloud Technology or Research Paper Review
 Tutorial 9: AWS Step Functions, AWS SQS
 Tutorial 9: Serverless Beyond Java, Container-Based Functions
 Kubernetes

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# Introduction to Docker

# https://faculty.washington.edu/wlloyd/courses/tcss562/
tutorials/TCSS462\_562\_f2025\_tutorial\_7.pdf

# Must complete using c7i-flex.large ec2 instance & Ubuntu 24.04 (for cgroups v2)

# Use DoCX file for copying and pasting Docker install commands

# Topics:

| Installing Docker

| Creating a container using a Dockerfile

| Using cgroups virtual filesystem to monitor CPU utilization of a container

| Persisting container images to Docker Hub image repository

| Container vertical scaling of CPU/memory resources

| Testing container CPU and memory isolation

| December 4, 2025 | CCS645/RSZ-Edforbase Engineering for Count Computing [fiel 2025] | Cisched of Engineering and Technology University of Westington - Tacoms

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OBJECTIVES - 12/4

Questions from 12/2
Tutorials Questions
Class Presentations Schedule Cloud Technology or Research Paper Review
Tutorial 9: AWS Step Functions, AWS SQS
Tutorial 8: Serverless Beyond Java, Container-Based Functions
Kubernetes

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GROUP PRESENTATIONS

I TWO OPTIONS:
Cloud technology presentation
Cloud research paper presentation
Recent & suggested papers will be posted at: http://faculty.washington.edu/wlloyd/courses/tcss562/papers/
Presentation dates:
Tuesday November 25
Tuesday December 2, Thursday December 4

Peer Reviews
Word DOCX review form posted, fill out, submit PDF on Canvas
Feedback shared with groups
TCSS 462: submit 4 total peer reviews in lieu of a group presentation

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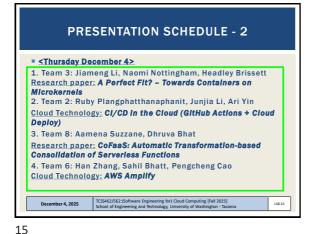
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OBJECTIVES - 12/4

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Tutorial 9: AWS Step Functions, AWS SQS
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15

**TUTORIAL 9 - TO BE POSTED** ■ Introduction to AWS Step Functions and Amazon Simple Queue Service (SQS) • Not Required, available for EXTRA CREDIT (scored out of 0) Adds up to 15 points to overall tutorials score Adapt Caesar Cipher Lambda functions for use with AWS Step Create AWS Step Functions State Machine Create a BASH client to invoke the AWS Step Function Create Simple Queue Service Queue for messages • Add message to SQS queue from AWS Lambda function Modify AWS Step Function Bash client script to retrieve AWS Step Function result from SQS queue ng for) Cloud Computing [Fall 2025] logy, University of Washington - Tai December 4, 2025 TCSS462/562:(Software Engineeri School of Engineering and Techno L18.17

OBJECTIVES - 12/4

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Tutorial 9: AWS Step Functions, AWS SQS
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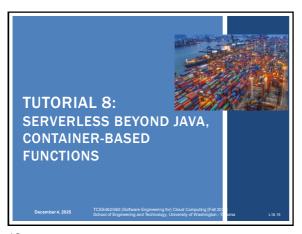
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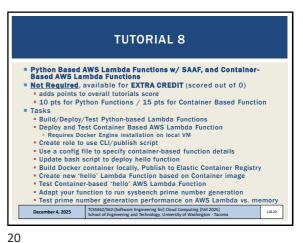
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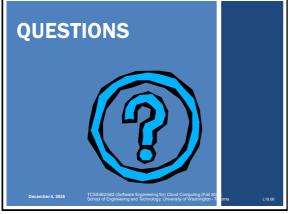
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