

TCSS 562: SOFTWARE ENGINEERING FOR CLOUD COMPUTING

Group Presentations I

Wes J. Lloyd
School of Engineering and Technology
University of Washington - Tacoma
TR 5:00-7:00 PM



1

OBJECTIVES - 11/30

- **Questions from 11/23**
 - Presentation Questions
 - Tutorial 7 - Due Dec 7
 - Tutorial 8 - Due Dec 17
 - Tutorial 9 - Due Dec 17
 - Tutorial 10 - no submission
 - Group 10 - Technology: **AWS Athena**
Ashwin Meena Meiyappan, Ayushi Ameta, Ananya Rao
 - Group 13 - **Paper: Active-Standby for High-Availability in FaaS**
Anindya Dey, Shishir Reddy
 - Office Hours / Tutorial questions
 - Team planning

November 30, 2021

TCSS562:Software Engineering for Cloud Computing [Fall 2021]
School of Engineering and Technology, University of Washington - Tacoma

L16.2

2

ONLINE DAILY FEEDBACK SURVEY

■ Daily Feedback Quiz in Canvas – Take After Each Class

■ Extra Credit for completing

Announcements

Assignments

Discussions

Zoom

Grades

People

Pages

Files

Quizzes

Collaborations

UW Libraries

UW Resources

Upcoming Assignments

Class Activity 1 – Implicit vs. Explicit Parallelism

Available until Oct 11 at 11:59pm | Due Oct 7 at 7:50pm | -/10 pts

Tutorial 1 - Linux

Available until Oct 19 at 11:59pm | Due Oct 15 at 11:59pm | -/20 pts

Past Assignments

TCSS 562 - Online Daily Feedback Survey - 10/5

Available until Dec 18 at 11:59pm | Due Oct 6 at 8:59pm | -/1 pts

TCSS 562 - Online Daily Feedback Survey - 9/30

Available until Dec 18 at 11:59pm | Due Oct 4 at 8:59pm | -/1 pts

November 30, 2021

TCSS562: Software Engineering for Cloud Computing [Fall 2021]
School of Engineering and Technology, University of Washington - Tacoma

L16.3

3

TCSS 562 - Online Daily Feedback Survey - 10/5

Started: Oct 7 at 1:13am

Quiz Instructions

Question 1

0.5 pts

On a scale of 1 to 10, please classify your perspective on material covered in today's class:

12345678910

Mostly Review To MeEqual New and ReviewMostly New to Me

Question 2

0.5 pts

Please rate the pace of today's class:

12345678910

SlowJust RightFast

November 30, 2021

TCSS562: Software Engineering for Cloud Computing [Fall 2021]
School of Engineering and Technology, University of Washington - Tacoma

L16.4

4

MATERIAL / PACE

- Please classify your perspective on material covered in today’s class (23 respondents):
 - 1-mostly review, 5-equal new/review, 10-mostly new
 - **Average – 6.37** (↓ - *previous 6.48*)
- Please rate the pace of today’s class:
 - 1-slow, 5-just right, 10-fast
 - **Average – 5.41** (↓ - *previous 5.35*)

November 30, 2021

TCSS562: Software Engineering for Cloud Computing [Fall 2021]
School of Engineering and Technology, University of Washington - Tacoma

L16.5

5

FEEDBACK FROM 11/23

- ?

November 30, 2021

TCSS562: Software Engineering for Cloud Computing [Fall 2021]
School of Engineering and Technology, University of Washington - Tacoma

L16.6

6

TUTORIAL QUESTIONS

- Tutorial 6: Nov 24
- Tutorial 7: Tuesday Dec 7th @ 11:59p
- Tutorial 8: Extra Credit - Dec 17 @ 11:59p
- Tutorial 9: Extra Credit - - Dec 17 @ 11:59p
- Tutorial 10 - No Submission

November 30, 2021

TCSS562: Software Engineering for Cloud Computing [Fall 2021]
School of Engineering and Technology, University of Washington - Tacoma

L16.7

7

OBJECTIVES - 11/30

- Questions from 11/23
- **Presentation Questions**
- Tutorial 7 - Due Dec 7
- Tutorial 8 - Due Dec 17
- Tutorial 9 - Due Dec 17
- Tutorial 10 - no submission
- Group 10 - Technology: **AWS Athena**
Ashwin Meena Meiyappan, Ayushi Ameta, Ananya Rao
- Group 13 - Paper: **Active-Standby for High-Availability in FaaS**
Anindya Dey, Shishir Reddy
- Office Hours / Tutorial questions
- Team planning

November 30, 2021

TCSS562: Software Engineering for Cloud Computing [Fall 2021]
School of Engineering and Technology, University of Washington - Tacoma

L16.8

8

GROUP PRESENTATION QUESTIONS

- Assignment created as quiz on Canvas
- Only **ONE MEMBER** of each team needs to submit the quiz
- Quiz collects questions for group presentations in one place
- Best to submit all questions at once on/after Wed Dec 11
- Please provide 2 questions for each presentation not occurring on your team's presentation day
- Tuesday Nov 30 – Quiz for Groups 1, 2, 3, 6, 7, 8, 9, 11, and 12
- Thursday Dec 2 – Quiz for Groups 1, 2, 6, 9, 10, 11, 12, and 13
- Monday Dec 7 – Groups 1, 3, 7, 8, 9, 10, 11, and 13
- Wednesday Dec 9 – Quiz for Groups 2, 3, 6, 7, 8, 10, 12, and 13

November 30, 2021	TCSS562: Software Engineering for Cloud Computing [Fall 2021] School of Engineering and Technology, University of Washington - Tacoma	L16.9
-------------------	--	-------

9

GROUP PRESENTATIONS – WEEK 10

Tuesday Nov 30
Slot #1 - **Technology: AWS Athena**
Group 10: *Ashwin Meena Meiyappan, Ayushi Ameta, Ananya Rao*
Slot #2 - **Paper: Active-Standby for High-Availability in FaaS**
Group 13: *Paper: Anindya Dey, Shishir Reddy*

Thursday Dec 2
Slot #1 - **Faster and Cheaper Serverless Computing on Harvested Resources**
Group 3: *Bob Schmitz, Viktoriya Grishkina, Danielle Lambion*
Slot #2 - **Duet Benchmarking: Improving Measurement Accuracy in the Cloud**
Group 7: *Andrew Lim, Di Mo, Solmaz Seyed Monir*
Slot #3 - **Resource Management for Cloud Functions with Memory Tracing, Profiling and Autotuning**
Group 8: *Duy Tran, Pragati Patil, Ranjana Bongale Ganesh*

November 30, 2021	TCSS562: Software Engineering for Cloud Computing [Fall 2021] School of Engineering and Technology, University of Washington - Tacoma	L16.10
-------------------	--	--------

10

GROUP PRESENTATIONS – WEEK 11

Tuesday Dec 7

Slot #1 – **Simple Notification Service (?)**

- Group 6: *Minzhi Qu, Yanliu Wang, Guanchen Zhao*

Slot #2 - **Distributed Machine Learning with a Serverless Architecture**

- Group 2: *Zhifei Cheng, Sijin Huang, Zichao Zhang*

Slot #3 – **IBM Cloud Functions**

Group 12: *Anmin Huang, Shuo Peng*

Thursday Dec 9

Slot #1 - **Tell Me When You Are Sleepy And What May Wake You Up!**

- Group 1: *Alekhya Palle, Satchit Dahal, Amir Almemar*

Slot #2 – **Azure Functions version 3 or 4 (?)**

- Group 9: *Dev Gandhi, Nischal Khadka, Sri Vibhu Paruchuri*

Slot #3 - **FaaSCache: Keeping Serverless Computing Alive with Greedy-Dual Caching**

- Group 11: *Davis Railsback, Trina Pal, Parshva Kotak*

November 30, 2021

TCSS562: Software Engineering for Cloud Computing [Fall 2021]
School of Engineering and Technology, University of Washington - Tacoma

L16.11

11

OBJECTIVES – 11/30

- Questions from 11/23
- Presentation Questions
- Tutorial 7 – Due Dec 7**
- Tutorial 8 – Due Dec 17
- Tutorial 9 – Due Dec 17
- Tutorial 10 – no submission
- Group 10 – **Technology: AWS Athena**
Ashwin Meena Meiyappan, Ayushi Ameta, Ananya Rao
- Group 13 – **Paper: Active-Standby for High-Availability in FaaS**
Anindya Dey, Shishir Reddy
- Office Hours / Tutorial questions
- Team planning

November 30, 2021

TCSS562: Software Engineering for Cloud Computing [Fall 2021]
School of Engineering and Technology, University of Washington - Tacoma

L16.12

12

OBJECTIVES – 11/30

- Questions from 11/23
- Presentation Questions
- Tutorial 7 – Due Dec 7
- **Tutorial 8 – Due Dec 17**
- Tutorial 9 – Due Dec 17
- Tutorial 10 – no submission
- Group 10 – Technology: **AWS Athena**
Ashwin Meena Meiyappan, Ayushi Ameta, Ananya Rao
- Group 13 – **Paper: Active-Standby for High-Availability in FaaS**
Anindya Dey, Shishir Reddy
- Office Hours / Tutorial questions
- Team planning

November 30, 2021

TCSS562:Software Engineering for Cloud Computing [Fall 2021]
School of Engineering and Technology, University of Washington - Tacoma

L16.13

13

OBJECTIVES – 11/30

- Questions from 11/23
- Presentation Questions
- Tutorial 7 – Due Dec 7
- Tutorial 8 – Due Dec 17
- **Tutorial 9 – Due Dec 17**
- Tutorial 10 – no submission
- Group 10 – Technology: **AWS Athena**
Ashwin Meena Meiyappan, Ayushi Ameta, Ananya Rao
- Group 13 – **Paper: Active-Standby for High-Availability in FaaS**
Anindya Dey, Shishir Reddy
- Office Hours / Tutorial questions
- Team planning

November 30, 2021

TCSS562:Software Engineering for Cloud Computing [Fall 2021]
School of Engineering and Technology, University of Washington - Tacoma

L16.14

14

OBJECTIVES – 11/30

- Questions from 11/23
- Presentation Questions
- Tutorial 7 – Due Dec 7
- Tutorial 8 – Due Dec 17
- Tutorial 9 – Due Dec 17
- **Tutorial 10 – no submission**
- Group 10 – Technology: **AWS Athena**
Ashwin Meena Meiyappan, Ayushi Ameta, Ananya Rao
- Group 13 – **Paper: Active-Standby for High-Availability in FaaS**
Anindya Dey, Shishir Reddy
- Office Hours / Tutorial questions
- Team planning

November 30, 2021

TCSS562: Software Engineering for Cloud Computing [Fall 2021]
School of Engineering and Technology, University of Washington - Tacoma

L16.15

15

TALK RECORDINGS

- Submit video recording links (URLs) via CANVAS
 - Final version of recording due by ~ Dec 17
- Can host video on Google Drive, Zoom (cloud), YouTube, or personal server and provide a link
- On day of presentation: arrive 10 min early to class to test video playback (or test during halfway-point)
- Group members should plan to be present to answer questions on day of talk
- If group members are unavailable, please contact instructor

November 30, 2021

TCSS562: Software Engineering for Cloud Computing [Fall 2021]
School of Engineering and Technology, University of Washington - Tacoma

L16.16

16

OBJECTIVES – 11/30

- Questions from 11/23
- Presentation Questions
- Tutorial 7 – Due Dec 7
- Tutorial 8 – Due Dec 17
- Tutorial 9 – Due Dec 17
- Tutorial 10 – no submission
- **Group 10 – Technology: AWS Athena**
Ashwin Meena Meiyappan, Ayushi Ameta, Ananya Rao
- Group 13 – Paper: Active-Standby for High-Availability in FaaS
Anindya Dey, Shishir Reddy
- Office Hours / Tutorial questions
- Team planning

November 30, 2021

TCSS562: Software Engineering for Cloud Computing [Fall 2021]
School of Engineering and Technology, University of Washington - Tacoma

L16.17

17

WE WILL RETURN AT
~6:10PM



18

OBJECTIVES – 11/30

- Questions from 11/23
- Presentation Questions
- Tutorial 7 – Due Dec 7
- Tutorial 8 – Due Dec 17
- Tutorial 9 – Due Dec 17
- Tutorial 10 – no submission
- Group 10 – Technology: AWS Athena
Ashwin Meena Meiyappan, Ayushi Ameta, Ananya Rao
- Group 13 – Paper: Active-Standby for High-Availability in FaaS
Anindya Dey, Shishir Reddy
- Office Hours / Tutorial questions
- Team planning

November 30, 2021

TCSS562:Software Engineering for Cloud Computing [Fall 2021]
School of Engineering and Technology, University of Washington - Tacoma

L16.19

19

OBJECTIVES – 11/30

- Questions from 11/23
- Presentation Questions
- Tutorial 7 – Due Dec 7
- Tutorial 8 – Due Dec 17
- Tutorial 9 – Due Dec 17
- Tutorial 10 – no submission
- Group 10 – Technology: AWS Athena
Ashwin Meena Meiyappan, Ayushi Ameta, Ananya Rao
- Group 13 – Paper: Active-Standby for High-Availability in FaaS
Anindya Dey, Shishir Reddy
- Office Hours / Tutorial questions
- Team planning


November 30, 2021

TCSS562:Software Engineering for Cloud Computing [Fall 2021]
School of Engineering and Technology, University of Washington - Tacoma

L16.20

20

QUESTIONS



November 30, 2021

TCSS562: Software Engineering for Cloud Computing [Fall 2021]
School of Engineering and Technology, University of Washington - Tacoma

L16.21