

## Assignment 1A – Cloud Technology Sharing Presentation

Version 0.11

Presentation Dates: November 30, December 2, December 7, December 9, 2021

### Objective

To support term project development and enrich the TCSS562 class with information regarding alternative and novel cloud technologies and services, project teams may elect to prepare a presentation focused on presenting a specific cloud technology or service. The technology could be associated with the team's term project, but it does not have to be. The cloud service or technology should be different than those covered in the course lectures and tutorials.

Cloud technology sharing presentations will have the following structure:

1. Slide presentation: technology overview
2. Demonstration
3. Q & A

For the cloud technology sharing presentation, groups will present in detail a cloud technology or service. Groups may elect to make a **higher level presentation of two or more** competing technologies, or a single **detailed presentation on one** specific technology. Groups should propose a unique topic for the presentation that is not a repeat of material covered in the lecture, and that is not covered by another group. The instructor will approve presentation topics. Group presentations should last approximately 20-25 minutes: approximately 10-15 minutes for the presentation, 5-10 minutes for the demonstration, and 0-5 minutes for questions. The total duration should not exceed 30 minutes including questions. Technology sharing groups should prepare approximately 10-15 highly informative, impactful slides to present the technology. Demonstration should highlight key features of the cloud service or technology. The demonstrations should be carefully prepared to be completed in 5 to 10 minutes. Demonstrations that fail, or that drag on for significantly longer resulting from disorganization will result in the a loss of points. Groups should make trade-offs and focus on presenting focused material to highlight key features as fully comprehensive demonstrations may not be possible in <10 minutes. Presenting only select key features, or providing a use-case as an example is a best practice. The grading emphasis will be on **QUALITY** of content and presentation, **not quantity!**

Presentations should be decomposed into parts, where each team member focuses on producing slides and presenting each part.

### Three-person team

Team member #1:	Slides 1-7
Team member #2:	Slides 8-15
Team member #3:	Demonstration
Everyone:	Questions

**Groups should plan to speak deliberately slow throughout the presentation!** Be sure to speak clearly, while enunciating carefully. For speakers who may become nervous, or are custom to speaking quickly, it is recommended to take a number of “*pauses*” to slow down the pace of the talk. The talk is not a race! Remember listeners need time to take notes, ponder what you’re saying, and formulate questions.

### **Regarding ONLINE presentations for Fall 2021**

**Recorded presentations:** TCSS 562 in Fall 2021 is a full online digital course. To support asynchronous class participation, presentations can be fully recorded and submitted to the instructor for replay during the Tuesday and Thursday online class sessions. If a group chooses to submit a recording, instead of giving a LIVE presentation, groups are encouraged to attend the TCSS 562 class session to answer questions regarding their presentation. If group members are unable to attend, then the instructor may email groups a list of questions captured from the presentation, and the group should provide a written response to the questions in lieu of LIVE synchronous participation.

**Use of transcripts are encouraged:** To support LIVE or recorded presentations at conferences and workshops, many of my students have created written transcripts to capture the speaker’s narrative. With a transcript, *the pressure is off* when delivering a LIVE or recorded presentation. The script can simply be read for a LIVE presentation, for a recorded presentation, the recording can be paused and repeated in the event of errors. In general, the effort put into preparing and reviewing a transcript appears to pay off significantly in improving the quality of ONLINE LIVE and recorded presentations.

## **1 Technology Presentation Format**

The slide presentation should follow the recommended structure provided below. Groups should provide at least one slide for each of the topics. Additional slides may be included for each topic where appropriate. Groups **should not** have more than ~20 slides total, not including the project demonstration.

It is recommended that the presentation be broken into parts. Each team member should present about ~5-7 minutes of content. Two person teams may scale back the length of the presentation and demonstration accordingly (total duration 15-20 minutes).

### **Recommended Presentation Format**

<b>Slide No.</b>	<b>Major Topic</b>	<b>Questions to Answer / Topics</b>
Slide 1	Introduce the technology	What is it? What does it do?
Slide 2	History of the technology: Who	Who invented the technology? Are there any competing/similar alternatives?
Slide 3	History of the technology: Why	Why was the technology invented? What was the motivation for its development?
Slide 4	History of the technology: How	How has the technology evolved to date? What has driven the evolution of its features?
Slides 5-6	Features Summary	Provide a detailed description of the key features. Where possible discuss technical design of the technology as it relates to cloud computing, distributed systems, and web services.

Slides 7-8	Example Use Cases	Provide example use cases for the technology. These can be use cases invented by the group, common applications from industry, etc. Describe example deployments. For example, are there any industry specific use cases where the technology has been used, or deployed at a large scale?
Slide 9	Technology Advantages	Describe advantages the technology provides, and reasons to encourage its adoption. Consider providing examples where performance is good, or cost is low.
Slide 10	Technology Disadvantages	Describe disadvantages, challenges, or problems with the technology. These may be challenges identified by the group, or those cited from articles or publications. If there are few, consider potential disadvantages.
Slide 11	Usability	Describe initial impressions on ease of use, learning curve, and understandability of programming related APIs. Usability can be its own slide, or presented as part of advantages/disadvantages
Slide 12	Cost Discussion	What does the technology cost to use? Consider presenting some examples of different scales to gauge costs.
Slide 13	Cost Example	Example of cost for a specific use case
Slide 14	Conclusions	State any conclusions or summarizing remarks about the technology
Slide 15-19	Demonstration	Groups can give a UI demo, a CLI demo, or combine both. Demos can be live, or simply a set of screen captures presented and described using slides.
Slide 20	Questions	A break for questions.

## 2 Technology Demonstration

The technology demonstration can include a demonstrations of: (1) the User Interface (UI) of the technology, (2) the Command Line Interface (CLI), or (3) an example use of the technology's Programming API. An interesting demo might use the GUI to configure an example resource, and then demonstrate the use of the CLI or programming API to interact with it. Teams can provide PDF files (1-2 pages) that will be distributed on the course webpage to provide a "cheat sheet" for working with the technology. This could include quick-start documentation for using the CLI or programming API, etc. Having a high quality PDF to augment the presentation can help offset potential deficiencies in the presentation. Additionally, groups could also create an online how-to wiki providing documentation to augment the presentation. Good demonstrations will leverage a use case or example to demonstrate how to use the technology.

Demonstrations can be "static", where screen captures are used in lieu of a LIVE demonstration. Recorded presentations can be used in lieu of a LIVE demonstration. The key with demonstrations is not to exceed 10 minutes in total duration. In cases where the technology can not be demonstrated, either through a live demo or a recorded demo, existing material found online can be used as needed. This includes, screen captures, video, etc. When other's work is needed to demonstrate the technology, the group should cite the use of external references to receive full credit. (e.g. include clear citations to websites, papers, etc. )

### 3 Grading Rubric

#### [15% of course grade]

Cloud technology sharing presentation grades will be broken into six components:

#### 15% **Design quality of presentation/slides**

This is the overall quality of the presentation materials. Factors considered include the formatting and design of the slides. Slides should not have long sentences, but phrases which summarize key points. Slides should be designed to encourage speakers to naturally present material, as opposed to reading the material. **Slides should include slide numbers** to help speakers keep pace during the talk.

Corrections can be made AFTER the presentation. Final slides are due by Friday December 10<sup>th</sup>. Online the final version of the slides is considered when evaluating design quality of the slides.

#### 10% **Early review of slides**

Groups presenting on a Tuesday should submit slides via Canvas by Sunday @ 11:59p to receive constructive feedback and suggestions from the instructor. The instructor will try to provide feedback by late Monday or very early Tuesday. If slides are available sooner, and the group requests early feedback (by email), review will be provided earlier. For a Thursday presentation, slides should be submitted by 11:59p on Tuesday. Draft slides are not graded. 10% credit is awarded for providing a draft of the slides in advance to receive feedback before the talk. Due to the time required to review and provide feedback for slides, slides submitted less than 24 hours prior to the talk may not be reviewed, and the 10% may be forfeited.

#### 15% **Technical content**

The technical content grade will be evaluated by considering the in-class presentation and the content provided on the final slides submitted after the presentation. Both the technical content of the slides and demonstration will be considered. All groups have the opportunity to improve technical content of slides for final submission by Friday December 10th.

#### 15% **Technology demonstration**

The technology demonstration can consist of a live demo, screen captures, video, etc. produced or assembled by the group. The best demonstrations will combine UI + CLI, or UI + API. Effort should be made to focus the demonstration on a short example or use case. The entire demonstration should be no more than 5-10 minutes. Groups with a shorter talk, should plan a longer demonstration. Groups with a longer talk, a shorter demonstration.

#### 25% **Presentation quality, clarity, understandability**

The overall clarity and understandability of the presentation is worth approximately 25%. Clarity and understandability are improved by speaking slowly, deliberately, looking at the audience, pausing, as well as having well designed slides, and having practiced the presentation prior to class. Use of a transcript for the talk can improve the presentation. Groups can submit the written transcript to CANVAS to demonstrate effort to encourage a higher grade. The instructor will try to deliberately slow

down presentations to help improve group grades by interjecting when possible. The use of notes, notecards, or a transcript is suggested to prevent excessive reading from the laptop screen. Slides should consist of short bullets with only phrases, not complete sentences. The slide design should discourage presenters from simply reading slides. Use of notecards, can help with practicing the presentation. **Presentations should last no more than ~25 minutes. Presentations extending beyond 30 minutes will be cut-off due to time limitations.**

#### 20% **Participation in presentations**

During the days teams are not actively making a presentation, each team will submit **two questions** for each research paper or technology presentation by Friday December 10<sup>th</sup> @ 11:59pm. Questions are submitted as a fill-in-the-blank quiz on Canvas after the class. To receive full credit, good questions must be submitted on Canvas that are relevant and cognizant of the content of the presentation. “Softball” (i.e. easy, or out-of-context questions) will receive no points. To receive credit, questions must have multi-word cognitively interesting answers. **Questions with simple YES or NO answers will not receive credit.** Teams are **highly** encouraged to ask questions at the end of each group’s presentations in class.

#### **4 Notes about the presentation grading**

Groups who’s in-class presentation is scheduled early on will be graded less rigorously in a qualitative manner as needed. For example, if you are the first presentation, there is leeway to make mistakes and also more time to correct slides before the final submission.

#### **5 Presentation feedback**

Groups are **required** to submit draft slides for review by 11:59pm on the prior Sunday for a Tuesday presentation, or the prior Tuesday for a Thursday presentation. The instructor will provide constructive feedback on the slides. Slides should be prepared using Google Sheets or MS Powerpoint to facilitate adding review comments directly to the slides. Slides will be shared with the class via posting on the website.

#### **6 Submission Deadline**

Final project slides should be submitted to Canvas in PDF format by Friday December 10<sup>th</sup> at 11:59pm.

#### **7 Topic Submission**

A ranked list of preferred presentation topics should be submitted via Canvas by Tuesday November 23rd at 11:59pm. Groups should also provide a ranked list of preferred presentation dates: **Nov 30, Dec 2, Dec 7, and Dec 9**. Presentation dates and topics will be awarded on a first come-first serve basis. The presentation schedule will be shared via Canvas on Wednesday November 24<sup>th</sup>.

#### **8 Change History**

Version	Date	Change
0.1	11/16/2021	Original Version
0.11	11/17/2021	Updated