

Assignment 1A – Cloud Technology Sharing Presentation

Version 0.1

Presentation Dates: Monday May 14th, Wednesday May 16th, Monday May 21st, Wednesday May 23rd

Objective

To support term project development and enrich the TCSS562 class with technology sharing experiences, project teams may elect to prepare a presentation regarding technologies associated with their term project as their class presentation.

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 at least one of the cloud technologies used for the group project. Groups may elect to make a **higher level presentation of two or more** of their competing technologies, or a more **detailed presentation on one** technology. Effort will be made to restrict topics to prevent duplicate presentations and overlap in the class. Group presentations should last up to 40 minutes. Approximately 15-20 minutes for the presentation, 10-15 minutes for the demonstration, and 5 minutes for 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 used to speaking quickly, it is recommended to take a number of “**pauses**” to slow down the pace of the talk. This is not a race! Remember listeners need time to take notes, ponder what you’re saying, and formulate questions.

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 ~25 slides total, not including the project demonstration.

It is recommended that the presentation be broken into parts. Each team member should present about ~8-10 minutes of content. For example, one member could present slides 1-10, another 11-20, the third presents the UI demonstration, and the fourth presents a CLI/API demo. Two and three person teams may scale back the quantity of presentation content and/or demo accordingly.

Recommended Presentation Format

Slide No.	Major Topic	Questions to Answer / Topics
Slide 1	Introduce the technology	What is it? What does it do?
Slide 2	History of the technology: Who	Who invented the technology?
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
Slides 14-17	Alternatives	Describe cloud technology alternatives and how they are related/similar... These could be related services from the same cloud provider, or competing services offered by another cloud provider
Slide 18	Conclusions	State any conclusions or summarizing remarks about the technology
Slide 19+	UI Demo	The UI demonstration can be live, or be simply a set of screen captures presented and described using slides.
Slide 20+	CLI/API Demo	The command line interface (CLI) and/or Application Programming Interface (API) demo should present an example of how to use the cloud services from the CLI and/or the API. Discuss limitations, advantages, etc.
Slide 21	Questions	A break for questions.

2 Technology Demonstration

The technology demonstration should include a demonstrations of at least two of the three: (1) the User Interface (UI) of the technology, (2) the Command Line Interface (CLI), and (3) an example use of the technology's Programming API. Teams wanting to make the best possible presentation may consider providing resources to the class such as handouts, or an online how-to wiki. Good demonstrations will walk through how to use the technology with a simple use case.

The best presentations will demonstrate more than simply the UI. For example, a technology demonstration that only demonstrates the UI may potentially receive a score of 80%. Well done technology demonstrations which show the UI + CLI, or UI + API are 100% ! In cases where the technology can not be demonstrated, either through a live demo or a group 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 explain why this was necessary to receive full credit. (e.g. include one or more slides describing Why...)

3 Grading Rubric

[20% of course grade]

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

25% **Design quality of presentation/slides**

The overall quality of the presentation materials. Groups will prepare slides for the presentation given in class. Feedback from the presentation can be used to refactor the slides and make corrections. Draft slides should be submitted by 11:59p the day before the presentation. Final slides can be submitted after the presentation. The final slides will be graded, while the draft slides will not be graded. This allows corrections to be made to the slides AFTER the presentation. Final slides are due by Friday May 25th.

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 May 25th.

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 at least some example of UI + CLI, or UI + API. Technology demonstrations that are UI only will not receive maximum credit. It is acceptable to use existing materials demonstrating the technology with proper justification. If there are questions, please ask the instructor for clarification.

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 (foils), and having practiced the presentation prior to class. The instructor will try to deliberately slow down presentations to help improve group grades by interjecting when possible. The use of notecards is suggested to prevent excessive reading from the laptop screen. With notecards, it is easier to practice the presentation and eventually the notecards are no longer needed.

20% **Participation in presentations**

During the days teams are not actively making a presentation, each team is responsible for submitting **at least two questions** related to the research paper(s) or technology presentation(s) made in class **by the end of the day**. 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

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 the opportunity to correct slides in time for their final submission. By the end of the second week, remaining groups should be accustomed to the presentation format.

5 Presentation feedback

It is recommended that groups submit slides to the instructor via email for feedback prior to the presentation in either ppt/pptx or PDF format. If an MS Office file is provided, review will be via track changes/comments. If a PDF file is provided, review will be via separate written comments. Comments are added as feedback to Google slides. The instructor will attempt to provide a 24-hour or better turnaround time for slide feedback. At the latest, **please send slides for feedback no later than ~5pm on the day before the presentation** to receive suggestions, feedback, corrections by the next morning. Slides will be shared with the class via posting on the website.

6 Submission Deadline

The following is the tentative technology sharing presentation schedule. We will aim for 2-3 presentations of ~ 30-40 minutes per class session.

Week 8:

May 14 Team 2 – Elastic Bean Stalk – Jason, Timothy, Arshdeep
May 16 Team 4 – Khushboo, Siri, Kiruthiga, Suganya

Week 9:

May 21 Team 7 – DynamoDB – Priyanka, Resham, Savita, Sriharshitha

May 23 Team 9 – Oracle Fn – Lan, Bryan

May 23 Team 10 – Apache OpenWhisk - Navid

Final project slides should be submitted to Canvas in PDF format by Friday May 25th at 11:59pm.

7 Change History

Version	Date	Change
0.1	05/01/2018	Original Version