Final Project – AWS Cloud Architecting

ITC 6480

In general

Each group will have 15 minutes to present

Group #	Time
1	6:00 – 6:15pm
2	6:15 – 6:30pm
3	6:30 – 6:45pm
4	6:45 – 7:00pm
5	7:00 – 7:15pm
6	7:15 – 7:30pm
7	7:30 – 7:45pm
8	7:45 – 8:00pm
9	8:00 – 8:15pm
10	8:15 – 8:30pm
11	8:30 – 8:45pm
12	8:45 – 9:00pm

Agenda - Presentation

- **Agenda including Team # and names (1 page)**
  - An agenda that will include each of the sections that follow in this guidance
  - A list of who worked on the project (and your group #)
- **Introduction (1 page)**
  - a statement of the problem and the solution this project will provide
- **Executive Summary (1 page)**
  - High level descriptions using bullet points of :
    - What did you set out to do?
    - How did you accomplish the project goals?
- **Requirements and Assumptions (1 – 2 pages)**
  - A list of the requirements that you used as part of the project
  - A list of the assumptions that you made as part of the project
- **Architecture (1 page)**
  - A diagram of the architecture including the cloud services that your team will be using – there may be more than one
  - Make sure that you label the diagram and explain any terms/concepts that may be unclear

- **Network and Security (1 - 2 pages)**

  For your architecture describe (in bullets)
    - The services/techniques you used to address this area
    - The reasons you selected your approach
- **Scalability , HA and Business Continuity (1 - 2 pages)**

  For your architecture describe (in bullets)
    - The services/techniques you used to address this area
    - The reasons you selected your approach
- **Monitoring and Auditing (1 - 2 pages)**

  For your architecture describe (in bullets)
    - The services/techniques you used to address this area
    - The reasons you selected your approach
- **Next Steps and Conclusion (1 page)**
  - What is next? Is there further analysis?
  - What did the team learn?

Presentation Guidance

- Work as a team – you will be graded as a team!
- A least one slide per agenda item (10-15 slides)
- Use visual styles as much as possible – not too wordy!
- Make your points succinctly
- Diagrams are really important (especially for architecture)
- Everyone should talk

Outline - Paper

- **Cover Page**
  - Title of the Paper
  - A list of who worked on the project and your major(s)
- **Introduction**
  - a statement of the problem and the project that this will entail
- **Executive Summary**
  - In a few paragraphs, a high level statement of what work was done and the outcome (recommendation)
- **Overall Requirements and Assumptions**
  - A list of the overall requirements that you used as part of the project – in paragraph form. (Hint: use the Customer Requirements here)
  - A list of the overall assumptions that you made as part of the project – in paragraph form

- **Solution (multiple sections)**
  - Summarize the requirements for each of your solution sections with a short paragraph, and
  - Include the required worksheet for the following areas: **# worksheets**
    - Solution – Identify AWS Services (1)
    - Solution – User Authentication (3)
    - Solution – Network and Security (3)
    - Solution – Web and Application Tier (your architecture diagram)
    - Solution – Web and Application Tier (2)
    - Solution – Business Continuity (2)
    - Solution – Auditing (1)
  - For each solution section should INCLUDE a small paragraph describing WHY you chose the solution you did.
- **Next Steps and Conclusion**
  - What is next? Is there further analysis?
  - Would you recommend a POC? What would it cover?

Paper Guidance

- Work as a team – you will be graded as a team!
- Don't write too much, the worksheets will cover most of your points.
- Include all of your worksheets in the "Solutions" section
- Write about each of the areas
  - Good writing style
  - Make your points
  - Use references (APA guidelines) where appropriate
- Make your points succinctly
- Everyone should contribute, but it should read like there was one author
- I WILL CHECK FOR PLAGARISM – do not copy and paste text from anywhere!

Example Solution Section

Solution – Web and Application Tier

The following section describes the Web and Application Tier architecture and design.

Requirements overview

The requirements for this section include….

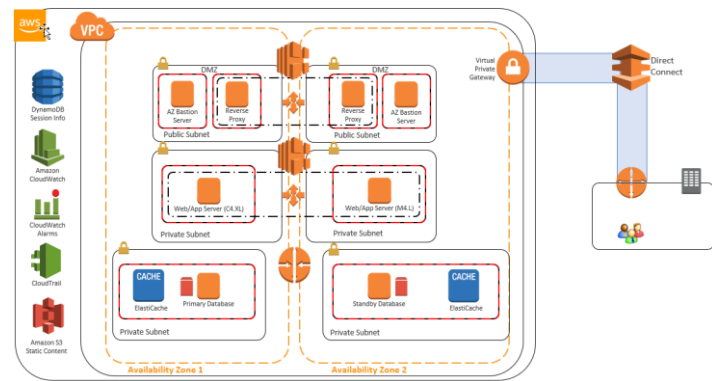## Architecture Diagram Worksheet

This is the final state architecture…..

Figure 1- Architecture

Instance Justification Worksheet

This worksheet identifies…..

Tier	Tag*	OS	Type	Size	Justification	# of instances	User Data?
Web	Key = Name Value = web-tier						
App	Key = Name Value = app-tier						
DB	Key = Name Value = db-tier						

* Tags must be configured as shown to meet the lab objectives

Figure 2- Instance Justification Worksheet