Sample final project outline as follows. (Not Complete)

1.AWS or Azure (Entire stack has to be on one of these platforms)
2.Java spring developed login portal (secured by self signed cert)
3.Java spring developed use-case buttons to simulate in increasing load on the application and backend DB
4.Backend DB has to be either relational DB or NoSQL with sample data
5.Java spring developed use case buttons (4 pre-configured - for example button one executes 5 users login into the app and running 5 different reports going back 10 days - button two might do 10 users but doing 10 reports going back 45 days etc)
6.Proper infrastructure alerts and triggers to allow for auto-scaling of resources to accommodate the additional load in application, network, data storage and usage with your environment (a significant focus will be how you all architect this out knowing how this works or does not work with your business objectives) (cost vs performance) and how every student can articulate that to me during the presentation) ....proper code documentation and proper error handling built into your application.

1. You are only required to have a minimum of 1 internal load balancer
2. The sample data has to be a minimum of 1g if you all think less please tell me. (be mindful of your free tier cost)
3. The 5 use case buttons should be as follow
3.1 - First button - simulation of 3 user login to application and run 2 report going back 10 days
3.2 - Second button - simulation of 10 user login to application and run 6 report going back 30 days
3.3 - Third button - simulation of 17 user login to application and run 10 report going back 60 days
3.4 - Fourth button - simulation of 24 user login to application and run 14 report going back 90 days
3.5 - Fifth button - user input fields to allow me the ability to enter parameters for how many users login simulation and how many reports those users are uniquely are running.

4. The reports will be unique data that can be images, username and passwords etc.

*Team Report - will consist of

Business justification
Visio diagram of cloud environment

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Initial Draft

Cloud pricing model for the next 3-6 months (remember cost vs performance)
List of systems and descriptions
Disaster Recovery procedures (will be tested during the final presentation)