# **Project Progress Report**

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**Overview:** We would like to compare two distributed shells by comparing their efficiency, ease of use among other parameters in grading programming homeworks located on virtual machines of distributed system.

### Responsibilities:

The two shells we will compare is <u>pssh</u>(Yaxin) and <u>dish</u>(Aidai)

Setup of google cloud environment - Yaxin and Aidai (separate for both of us)

Report findings - Yaxin and Aidai (separate for each shell)

Analyze findings - Yaxin and Aidai together

## **Value to User Community:**

The prospective user community for which our project is targeted is teaching teams of programming courses and distributed shell users. We will build a grading system to facilitate grading of programming homeworks as well as provide comparison of distributed shells on building an application.

#### Research Questions:

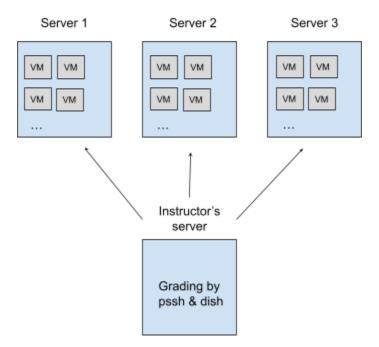
- How easy it is to set up the environment and configuration for each shell to be able to grade homework on distributed systems?
- What is the capacity for virtual machines/physical servers?
- What are the criteria for comparison of two shells?

#### Demo:

We have designed an example environment infrastructure and configuration file based on which each shell will run a 'grading script' (see image below). Each virtual machine will be dedicated to a student where he/she will put homework files. Given the list of servers' IP addresses, an instructor will be able to run a command that reads from configuration file.

An example of command can be:

./grading hwl.config



The key of the grading component is configuration file that can approximately can look like this:

We will put all the code files in the github repo.