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CSCIE-88, 2022 Spring

**Assignment 1: Setup**

This document is a template for your solutions submission. You are free to add additional information in this submission if you would like. Extra screenshots and extra documentation is perfectly fine. Screenshots must always be viewable. If a screenshot is too blurry to be viewed or is chopped off in a key area you will not receive full credit for it.

Please identify which problems were completed. If any were incomplete, please identify where you encountered problems.

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| *for example:*  Problem 1: 100% complete  Problem 2: Machine set up, but program not executed due to running out of time  Problem 3: 100% complete  Problem 3B: Bonus: not attempted  Problem 4: 100% |

**Problem 1: [25 points] Local dev setup**

Paste a screenshot of your dev environment (IDE of choice). Specify which IE you are using, as well as whether you are using it on your local machine or on a AWS EC2 instance. [6 points]

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| IntelliJ on local machine for first steps. Maybe I will use the remote interpreter to develop on the EC2 instance directly. |

Paste your source code into the following area. If you used the provided programs without changes, just mention that (No need to paste the code). If not, paste the new source code and indicate the changes you made. Remember that all code should be heavily commented, and easily readable. [5 points]

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| Example: I used the provided source code without any changes |

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Paste an example of your code output into the following area. This can be a screenshot (ideally), or a copy/paste of console text. [7 points]

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Paste an example of the contents of one of your generated files in the following area. [7 points]

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**Problem 2: [30 points] Set up a machine and demonstrate that it works**

Paste a screenshot of your AWS machine, include your owner information and creation date in your screenshot. [10 points]

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| Example: |
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Describe how you connected to your machine. [5 points]

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Show which Java and/or Python version is installed on your machine. [5 points]

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| Example: |

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Paste a screenshot of the command you used to transfer your program to your machine [5 points]

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Paste a screenshot of your program execution from within your machine. [5 points]

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**Problem 3: [30 points] Apache Web server in a local Docker container**

Paste a screenshot of your simple html page with an image[10 points]

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Show all command(s) used, in sequence, to launch the Apache Web server image on your Docker and corresponding console output [10 points]

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show URL and a screenshot of accessing your new page [10 points]

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**Problem 3B [Bonus, 15 points]: Docker on AWS**

Show all command(s) used, in sequence, to create and running the Docker container on your EC2 instance[5 points]

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show URL and a screenshot of accessing your new page [10 points]

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**Problem 4: [15 points]: Research**

Determine the BDP system type. Explain your decision [15 points]

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