

mp1 warm-up: Set Up the Virtual SAPC environment

Assigned: 30 January 2020

Due: 6 February 2020 class time

I. OBJECTIVES:

The purpose of this assignment is to set up the virtual SAPC environment and run a simple program on the VM. Students can follow the steps shown in the Virtual SAPC Environment Demo recorded lecture.

II. WARM-UP STEPS:

1. Download and install the corresponding version (PC, MAC or LINUX) of VMWare Workstation on your PC.
2. Follow the instructions on [http://www.cs.umb.edu/~cheungr/cs341/ VMWare-for-Tutor.pdf](http://www.cs.umb.edu/~cheungr/cs341/VMWare-for-Tutor.pdf) to download, install and configure the tutor VM and the tutor-vserver VM.
3. SSH into `users.cs.umb.edu` and then to `ulab.cs.umb.edu` using your UNIX credentials. Go to your `cs341` folder and copy my examples folder to your `cs341` folder using:


```
cp -r /courses/cs341/s20/cheungr/examples/ .
```
4. If you `cd examples/test_dir` and `ls`, you should see the `makefile` and `test.c`
5. Follow instructions in the Virtual SAPC Environment Demo recorded lecture to build `test.lnx`, transfer it to tutor-vserver VM, download it to tutor VM and run it.
6. For grading purposes, create a typescript file by issuing the script command after you log into the vserver VM. Run `mtip`, download `test.lnx` to the tutor VM, and run it. After running the program, issue 2 `ctrl-C`'s and return to the linux prompt in vserver VM. Issue the command `exit` and a typescript file will be generated at your PC.
7. Since the grader has no access to your PC, you have to transfer the typescript file to your `example/test_dir/` directory at the UMB server by:

```
scp typescript your_username@users.cs.umb.edu: cs341/examples/test_dir/
```