

Kernel compilation

February 20, 2020

1 Linux kernel

In this optional assignment, you are to build the Linux kernel from the source in a Linux virtual machine and boot the virtual machine using the new kernel.

You can download the source code of the Linux kernel by running:

```
"scp aos@192.168.1.161:linux-5.5.5.tar.xz ."
```

The password is aos.

You can refer to the following link for some pointers about the kernel compilation:

<https://www.linux.com/tutorials/how-compile-linux-kernel-0/>

2 Report

You have to submit a report that contains the following information:

- All the steps (including commands), you followed to create a virtual machine.
- All the steps (including commands), you followed in compiling the `linux-5.5.5` kernel.
- The output of `uname -a` when you boot using the new kernel.
- During the demo, you may have to follow the steps in your report to create a virtual machine and compiling the kernel. Make sure that we don't have to refer to any other document except your report to reproduce the results.

3 How to submit.

To be done individually. Submit your report (in pdf format) at backpack.