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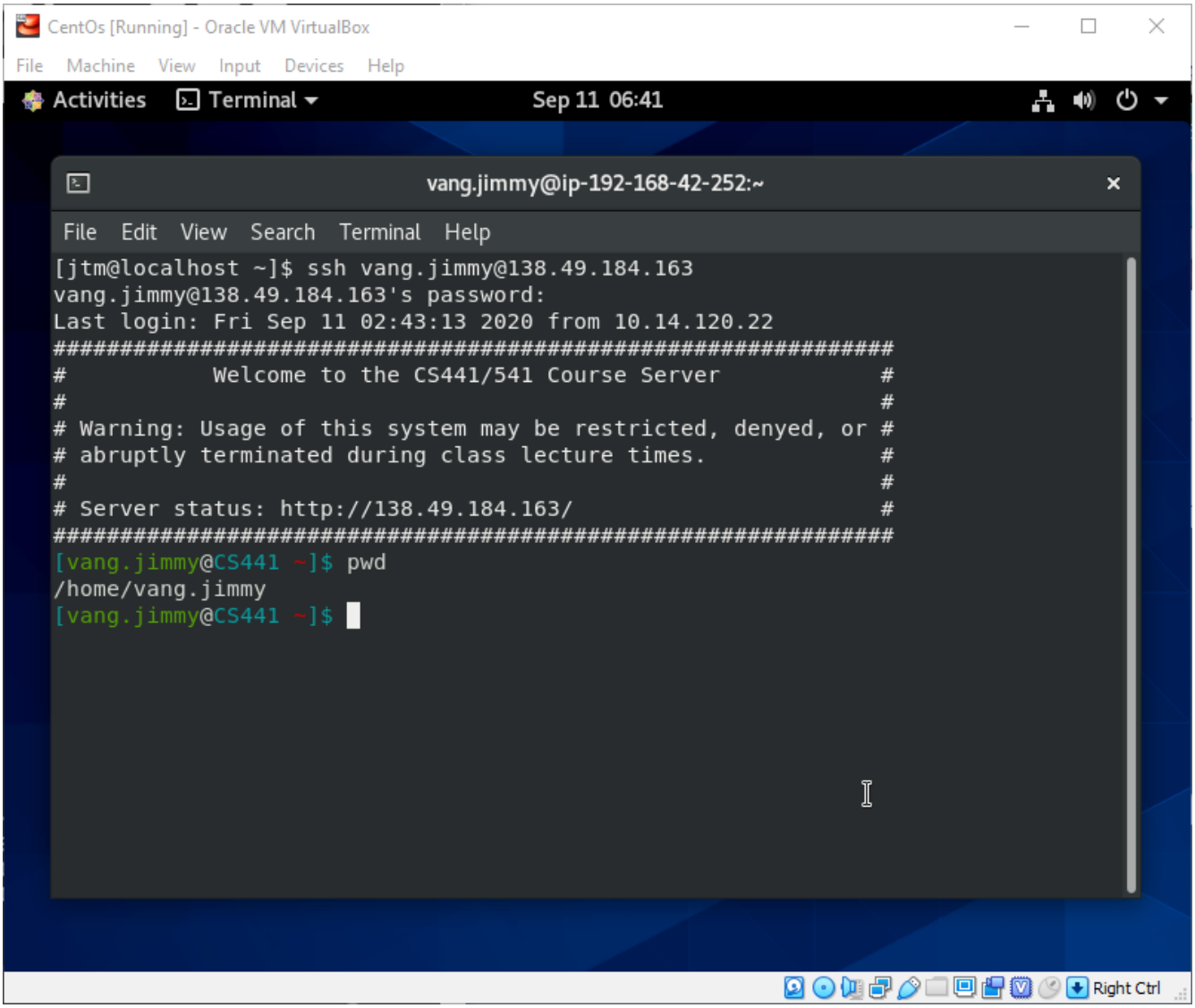
CS441 – Fall 2020
9/11/2020

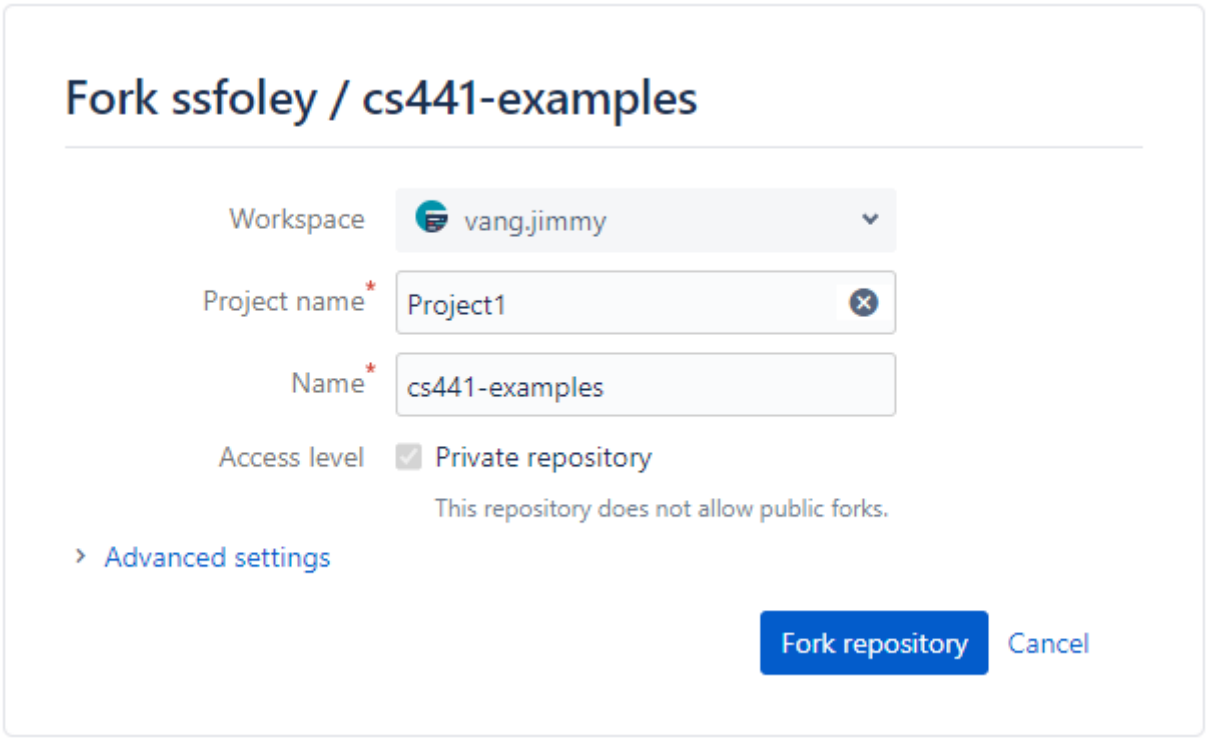
Project 1 – Environment Setup

This project was done using **CentOS 8.1** installed on the **Oracle VM VirtualBox**.

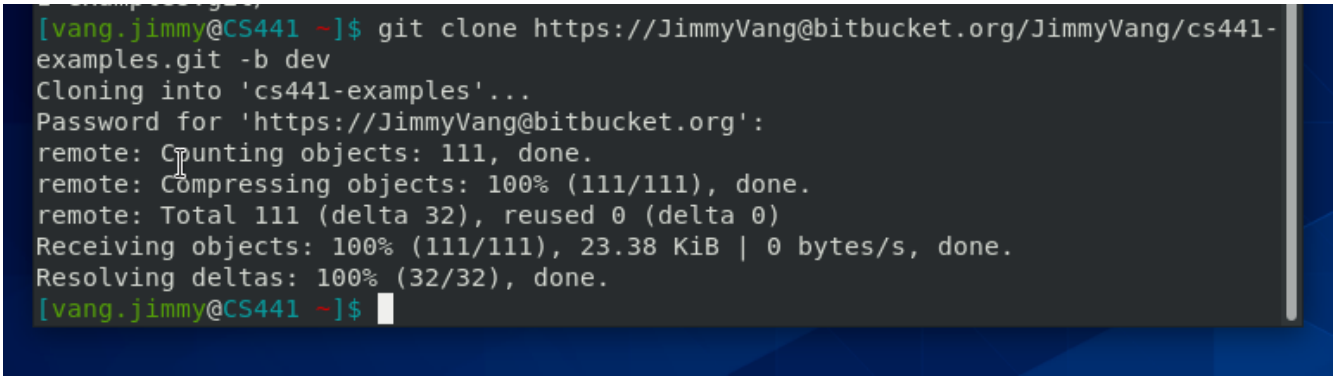
This is a screenshot of ssh'ing to the class server and printing the working directory.



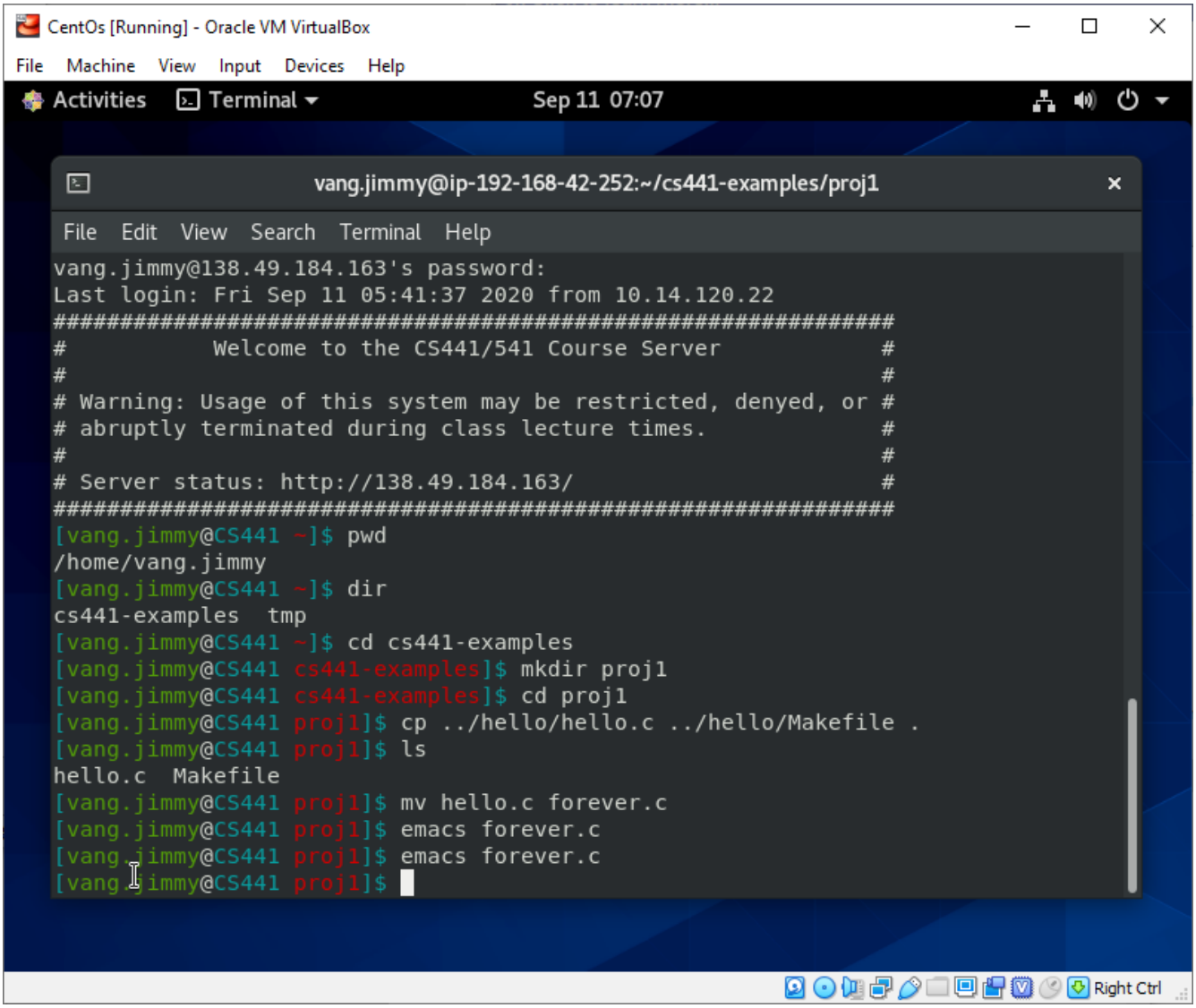
I fork the “cs441-examples” git repository here.



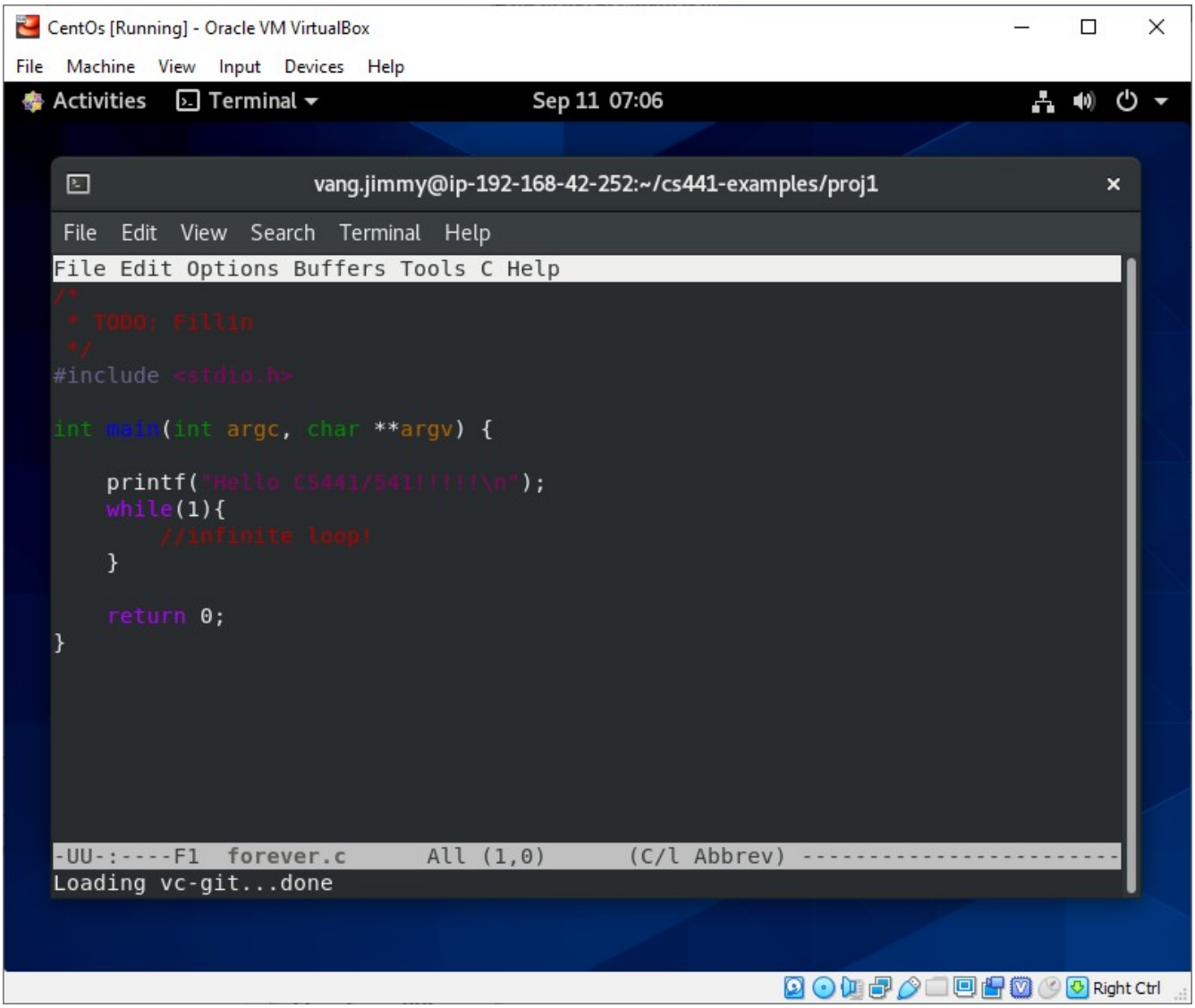
Next, I clone the Fork’d git repository onto the class server.



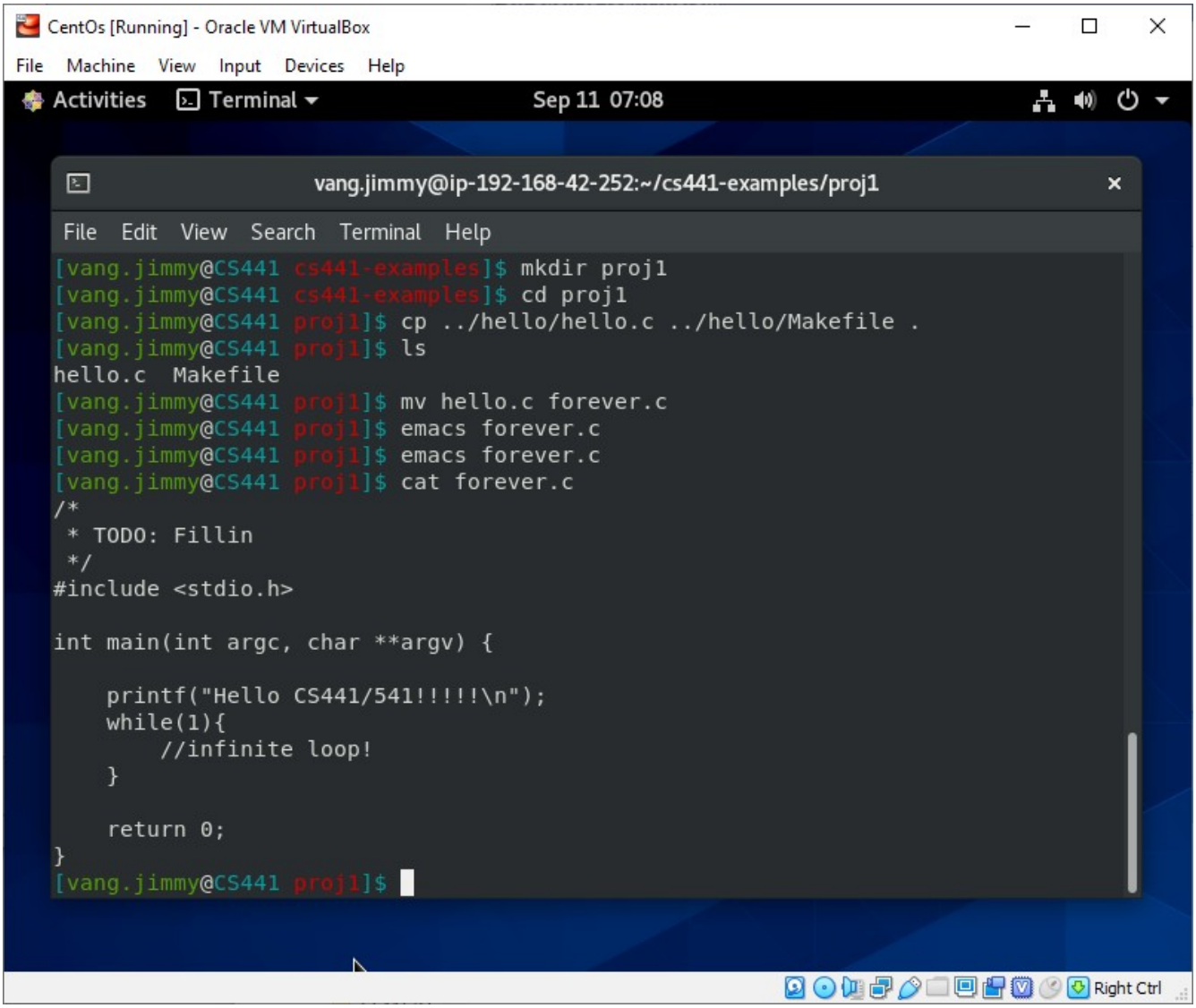
I navigate files and folders on the system using **cd** and **ls**. I also copy the **hello.c** and **forever.c** files from the folder **hello** using the command **cp**.



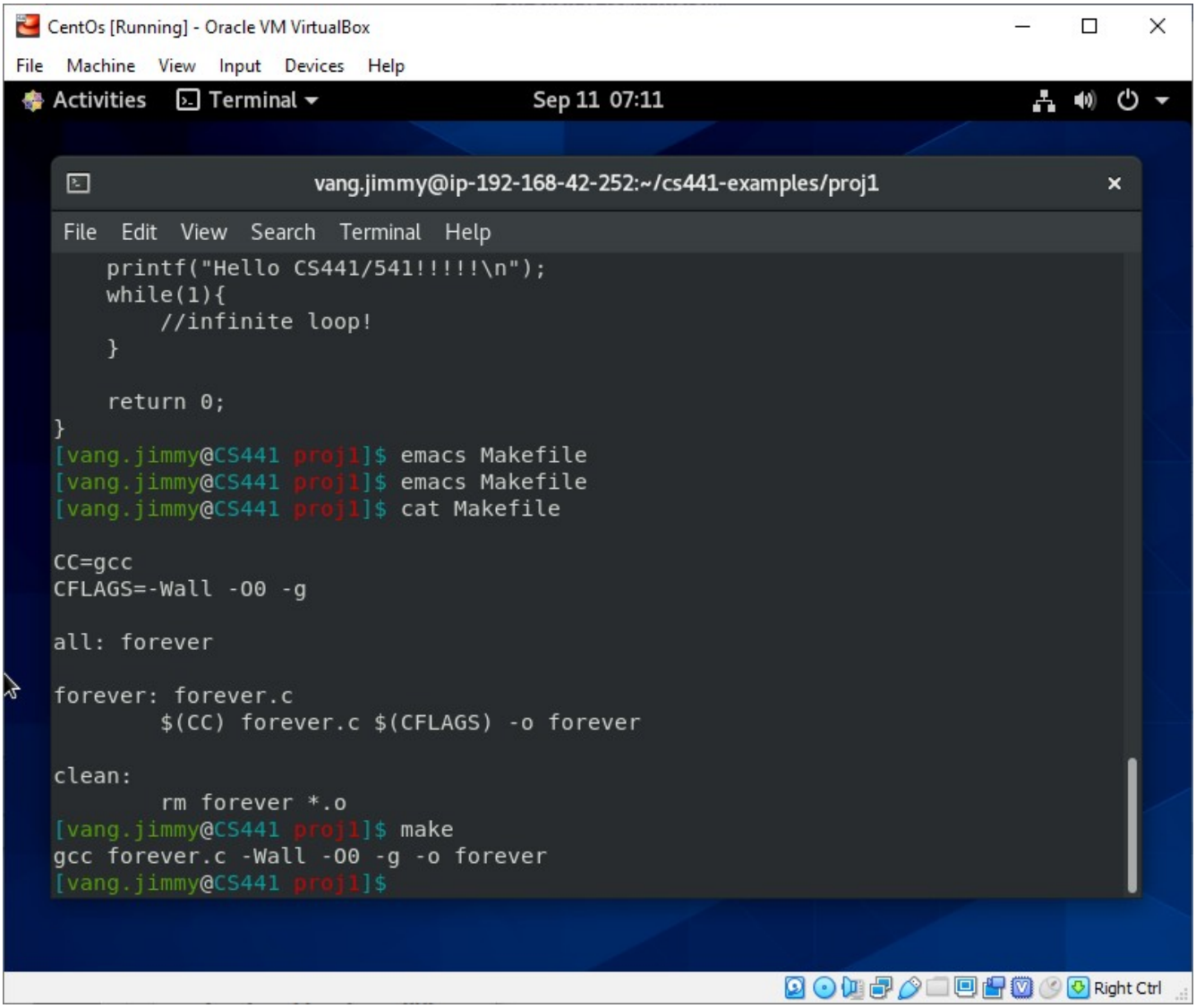
I use **emacs** to edit the **forever.c** file.



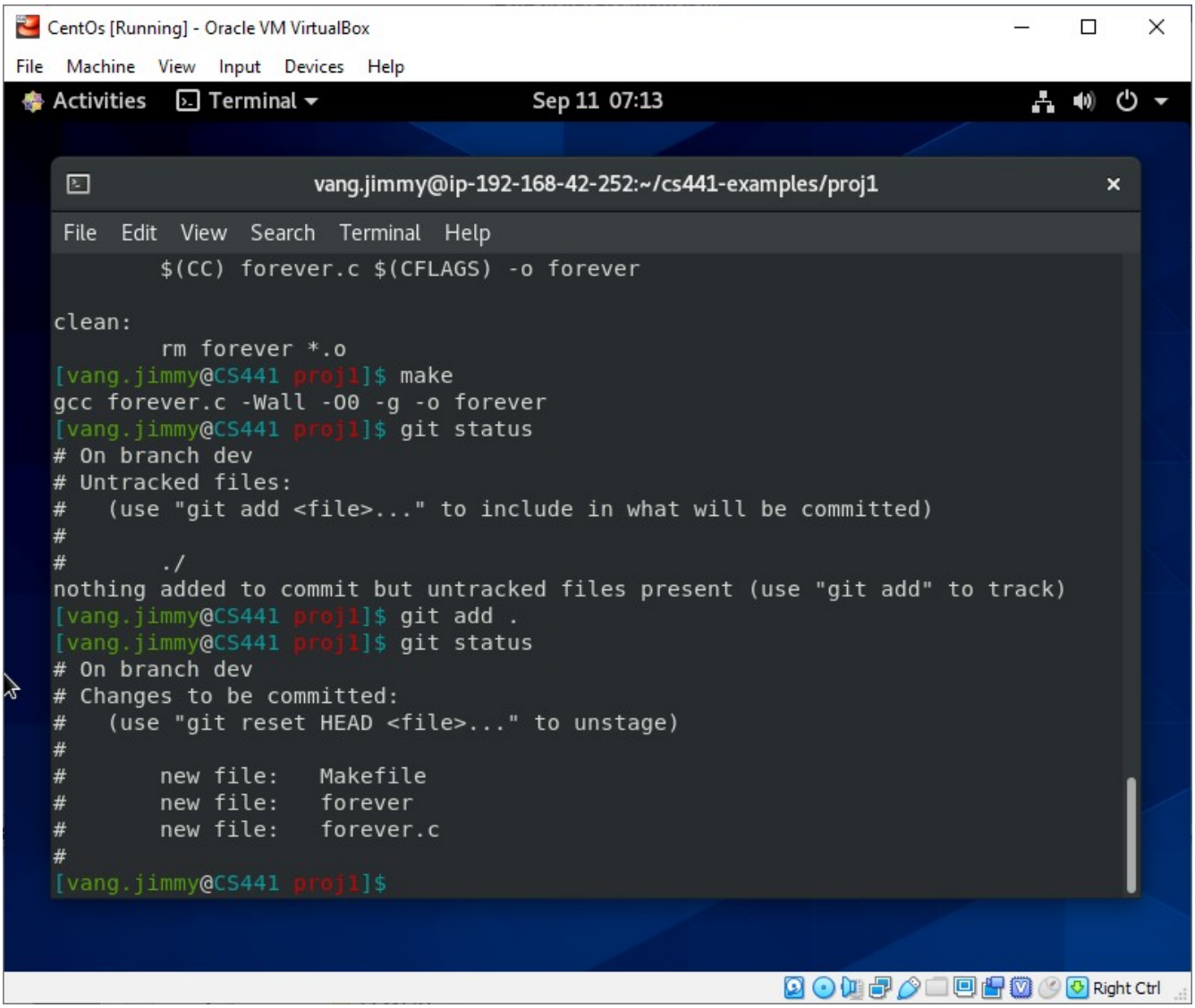
I use ***cat*** to print out the changes to **forever.c** file.



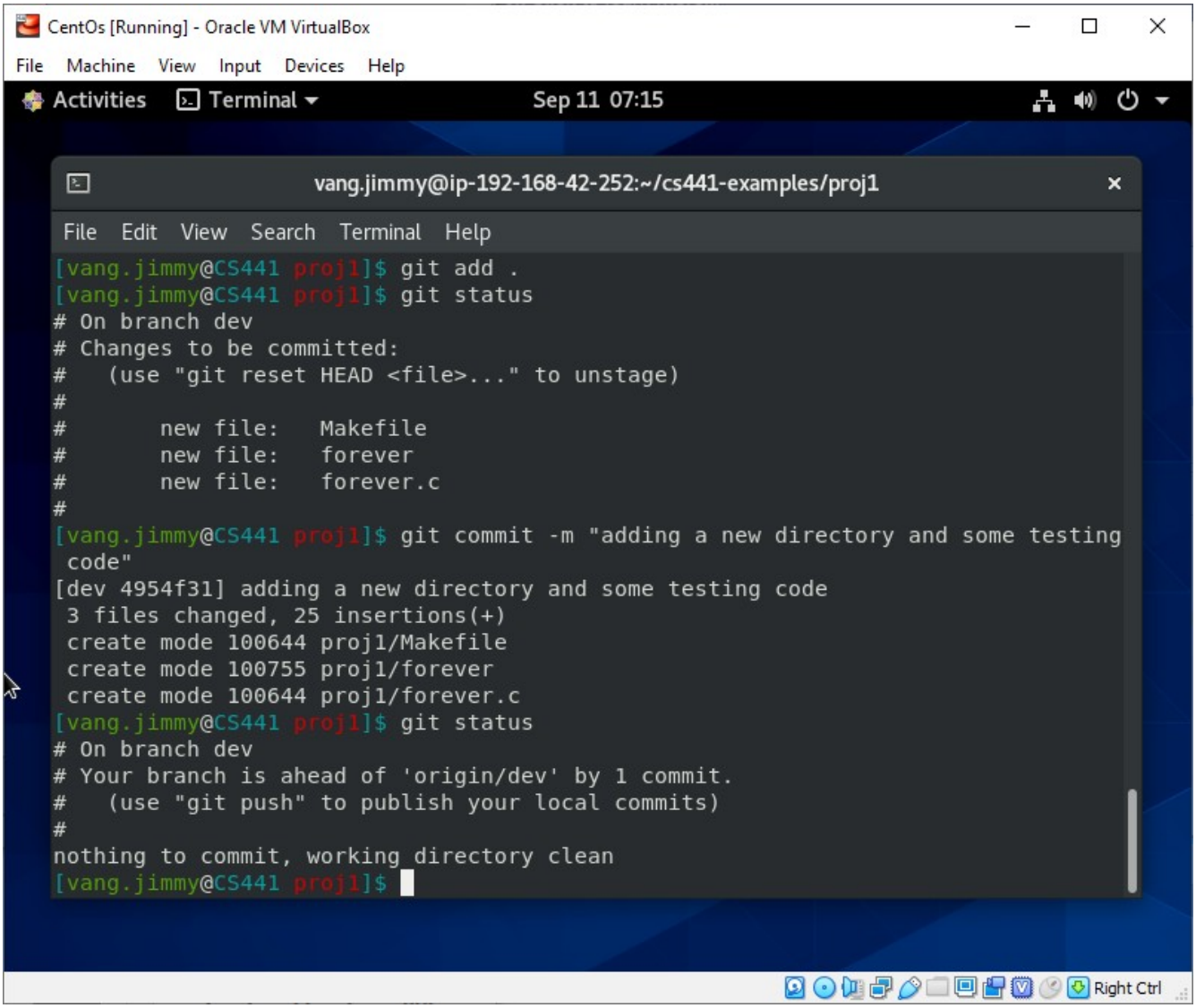
I use ***emac*** and to edit **Makefile** then use *cat* to view the changes to **Makefile**.
Also, ran the command ***make*** to compile and finish the rest of the changes to the repository.



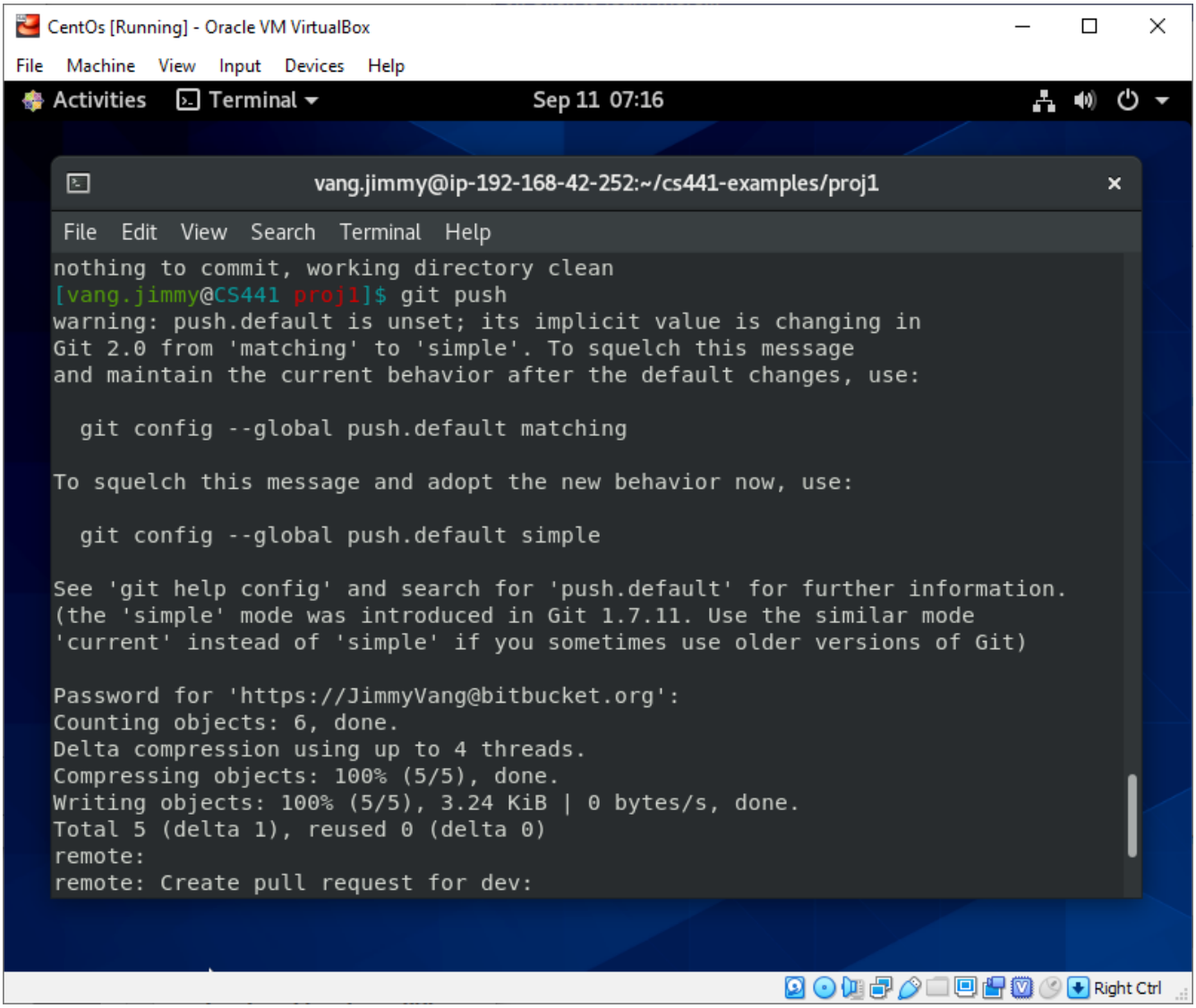
I use git to ***add*** the changes.



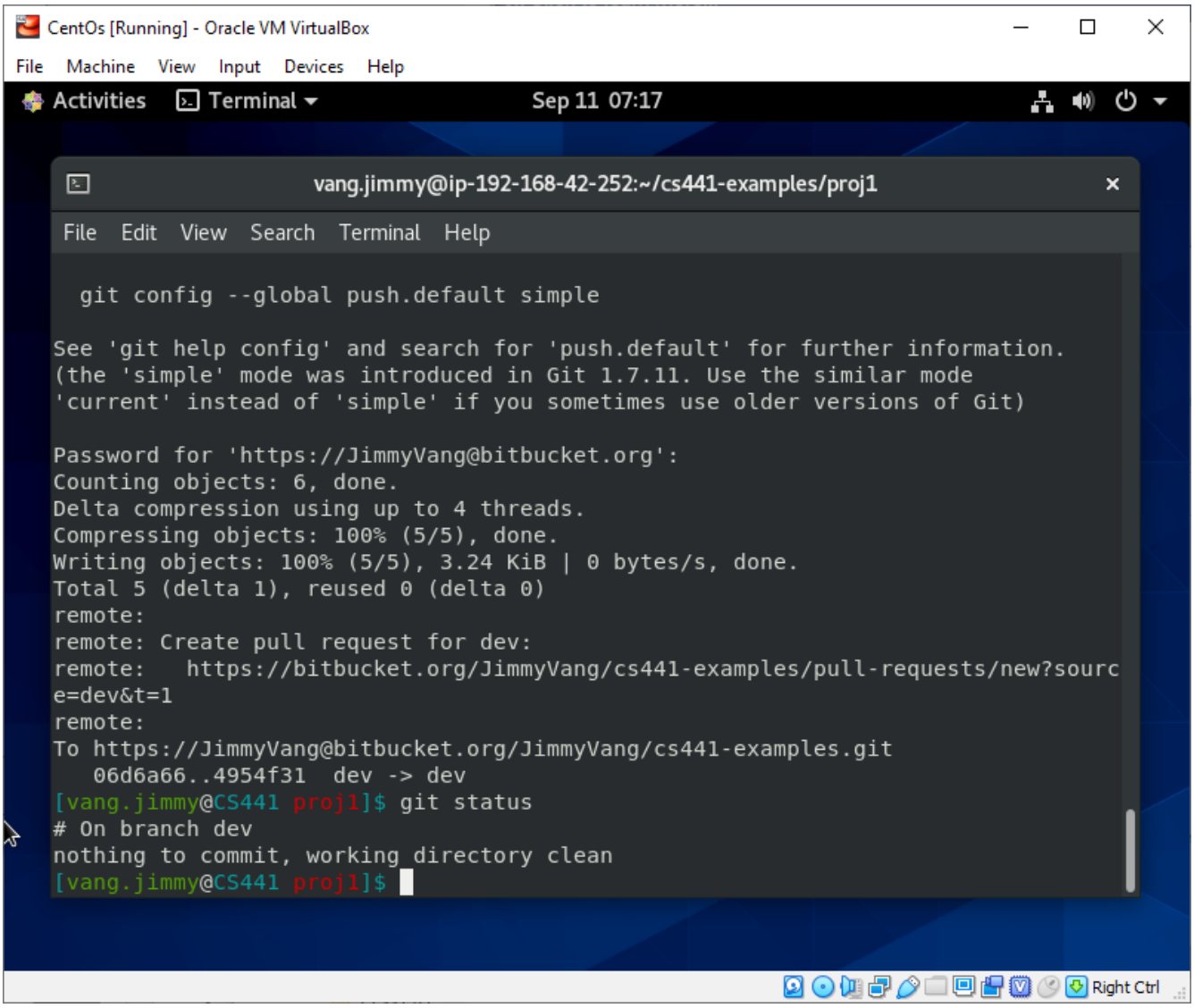
I use git to ***commit*** the changes.



I use git to ***push*** the changes onto the **dev** branch of the repository.

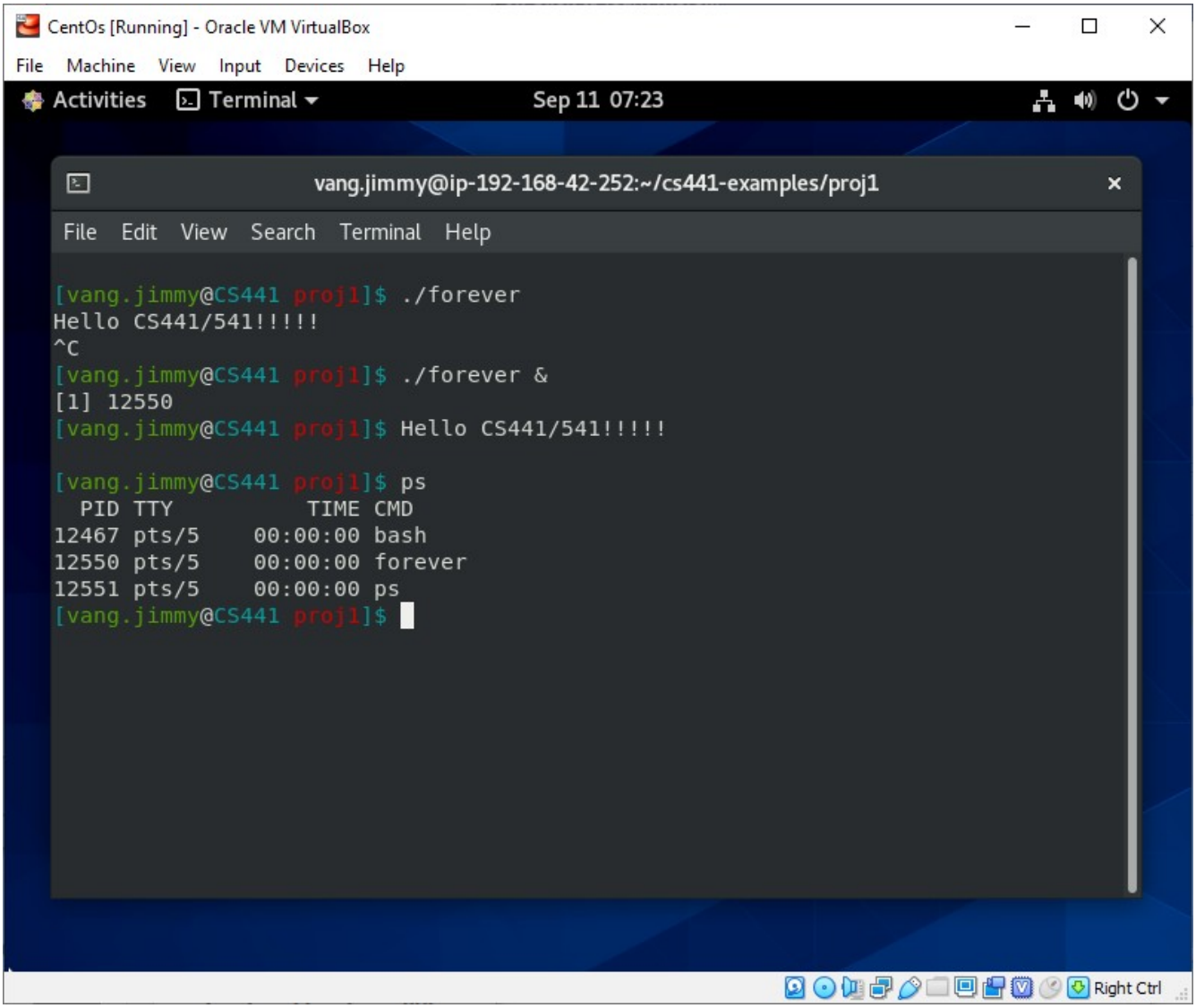


I use *git status* to comfirm that the ***push*** has succeeded.

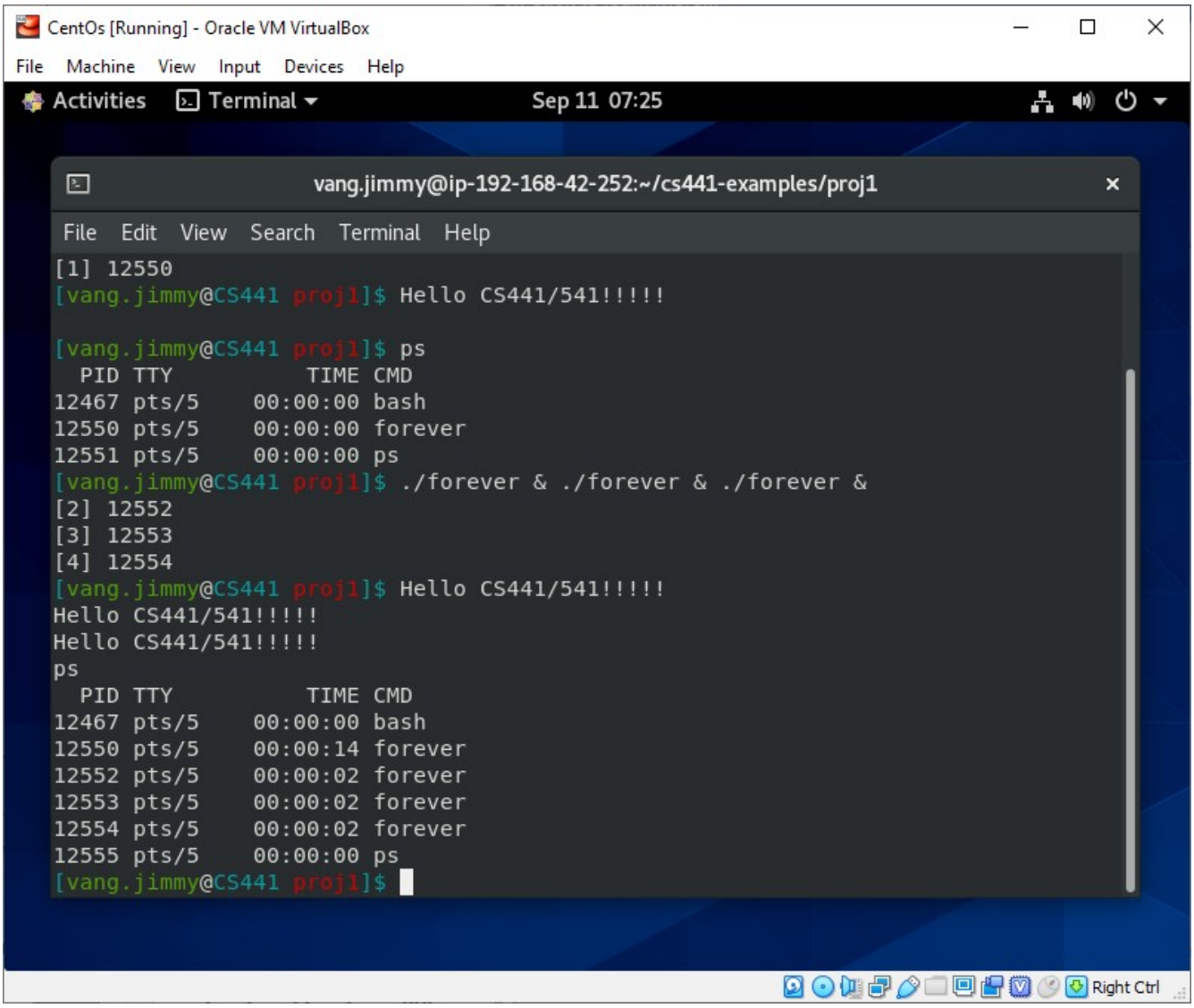


These are screenshots of me playing with the process management. (**fg**, **ps**, **kill** and **sleep**)

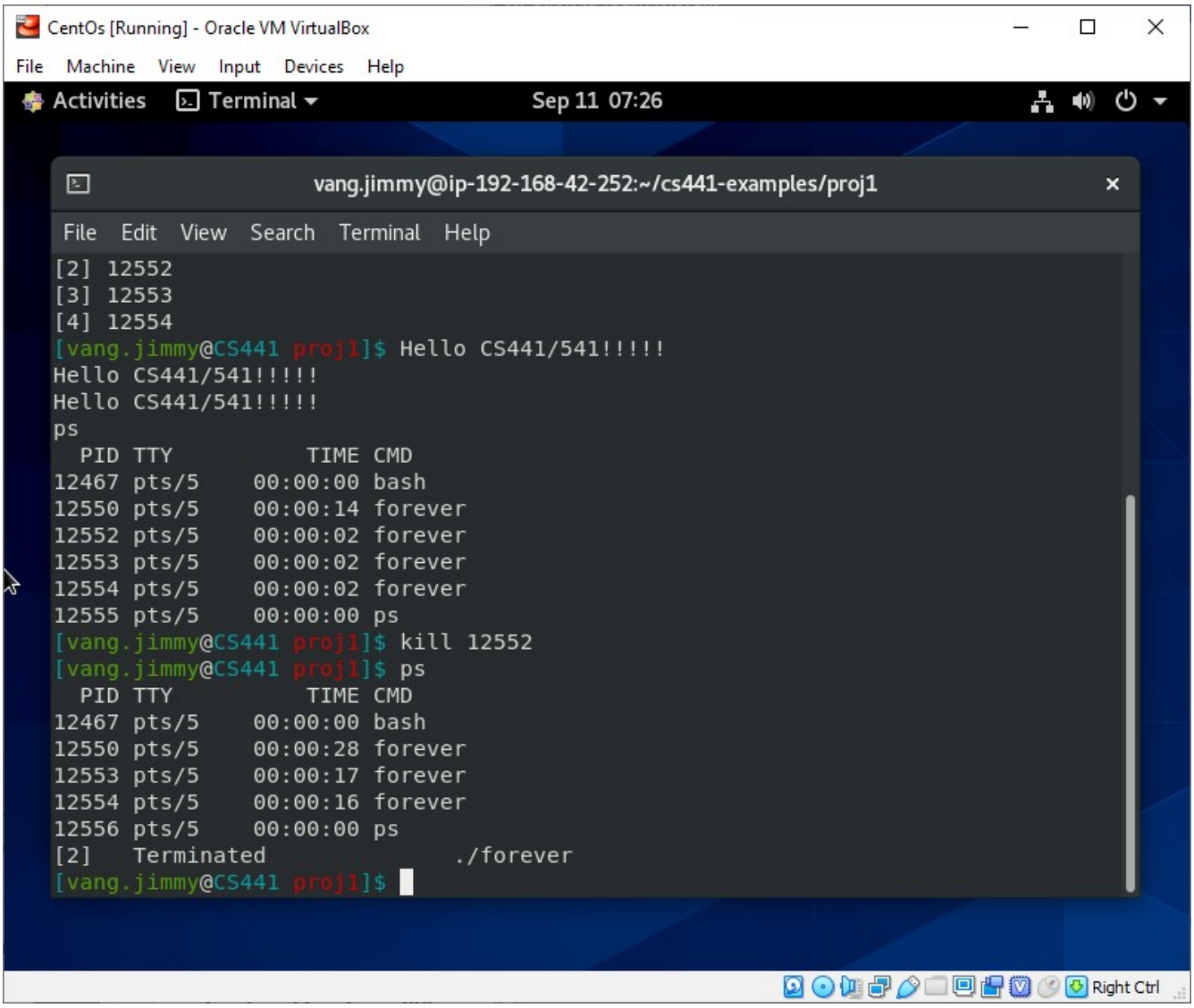
I run the compiled **forever.c** file as processes and use the command **ps** to view the processes that are running.



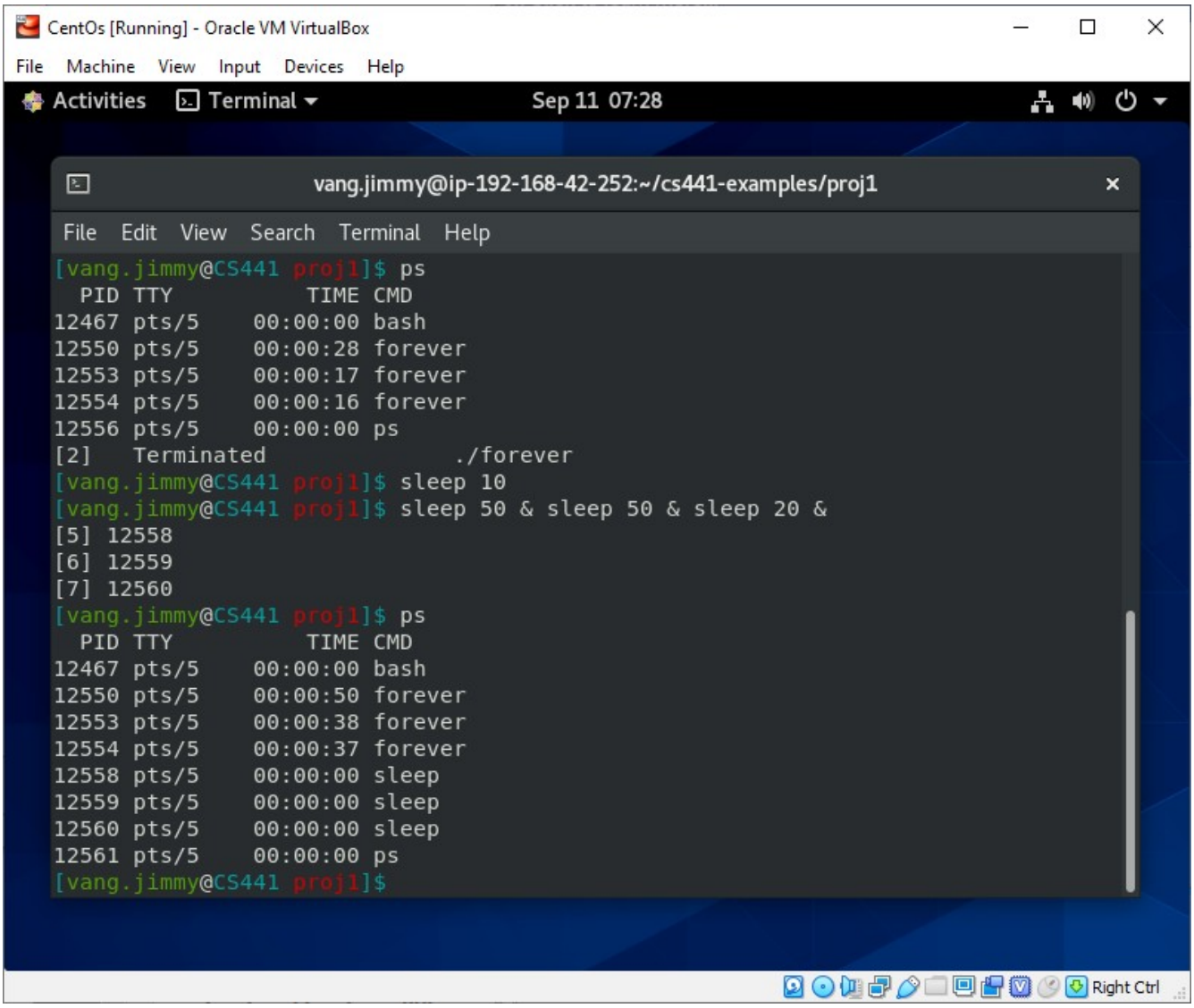
I run more **forever.c** processes and use **ps** to view them all.



I run the **kill** command and use **ps** to check if the processes I ran the command **kill** on were killed.

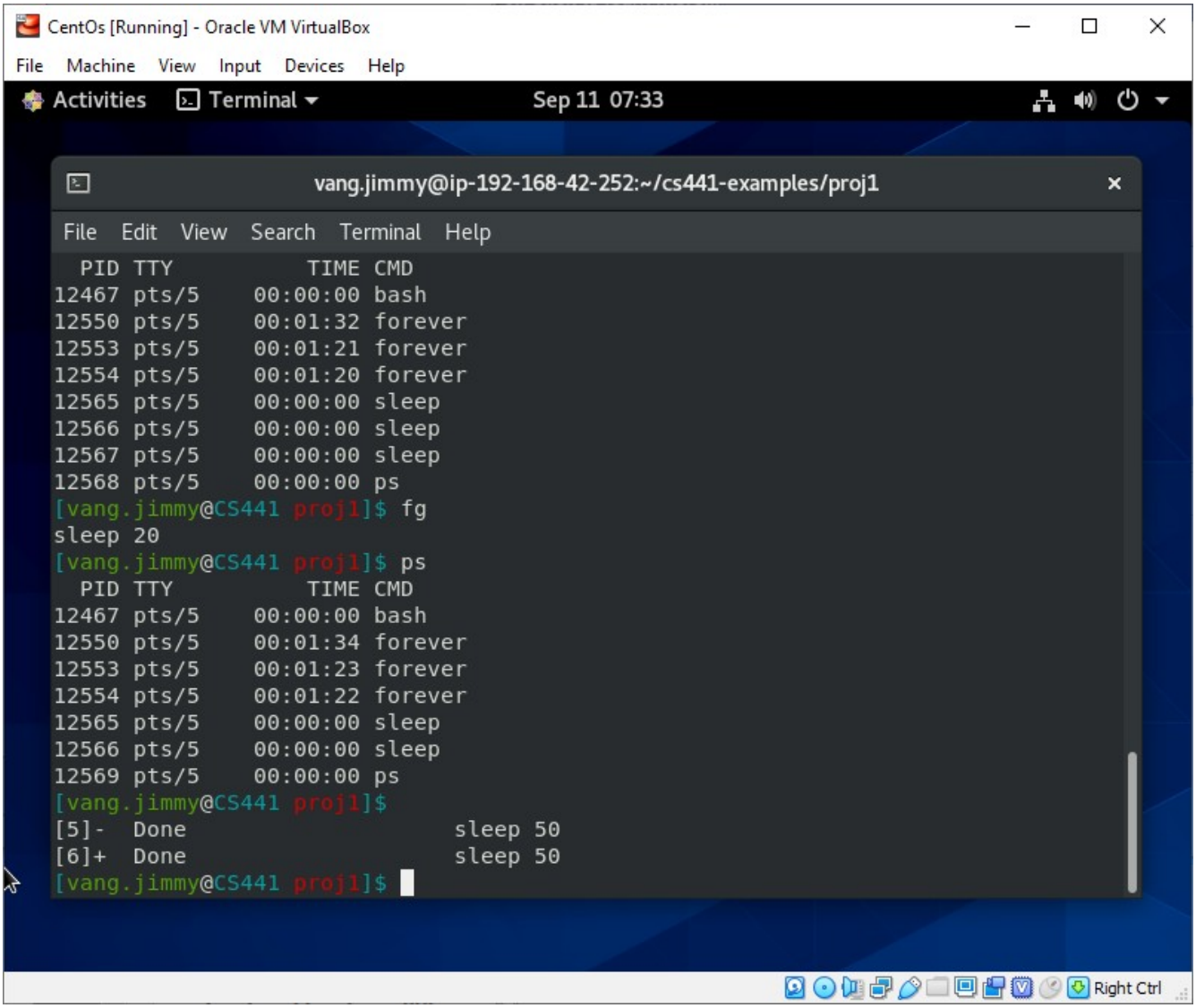


I play around with the command **sleep** and use **ps** to check proceses.



I use the **fg** command, which then brings one *sleep* program with 20 seconds into the foreground.

The *sleep* program finishes after 20 seconds and I use **ps** to see if the programs are finished and gone. After about 50 seconds, I check the other background *sleep* programs with **ps** and see that they have finished running.



Lastly, I execute the command **top**. I see all of the processes that are currently running on the CentOS VM and a bunch more information about the OS.