**Cloud Computing**

****

**Submitted By: Zunaira Khatoon**

**Submitted To: Engr. Shoaib**

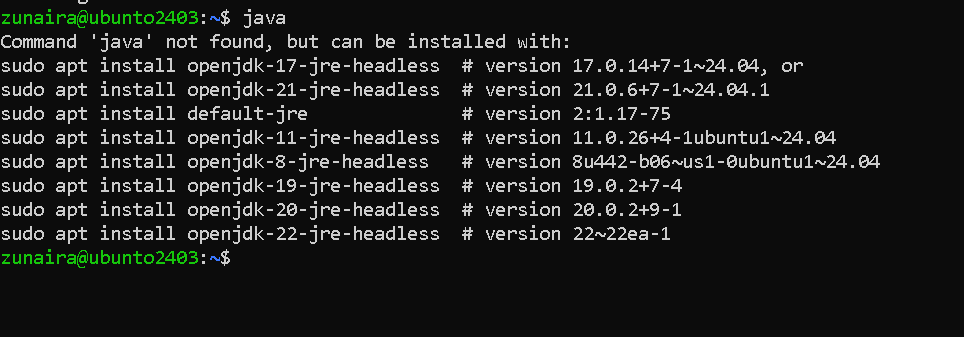
**Roll No: BSE-2023-074**

**Section: V-B**

***LAB 5***

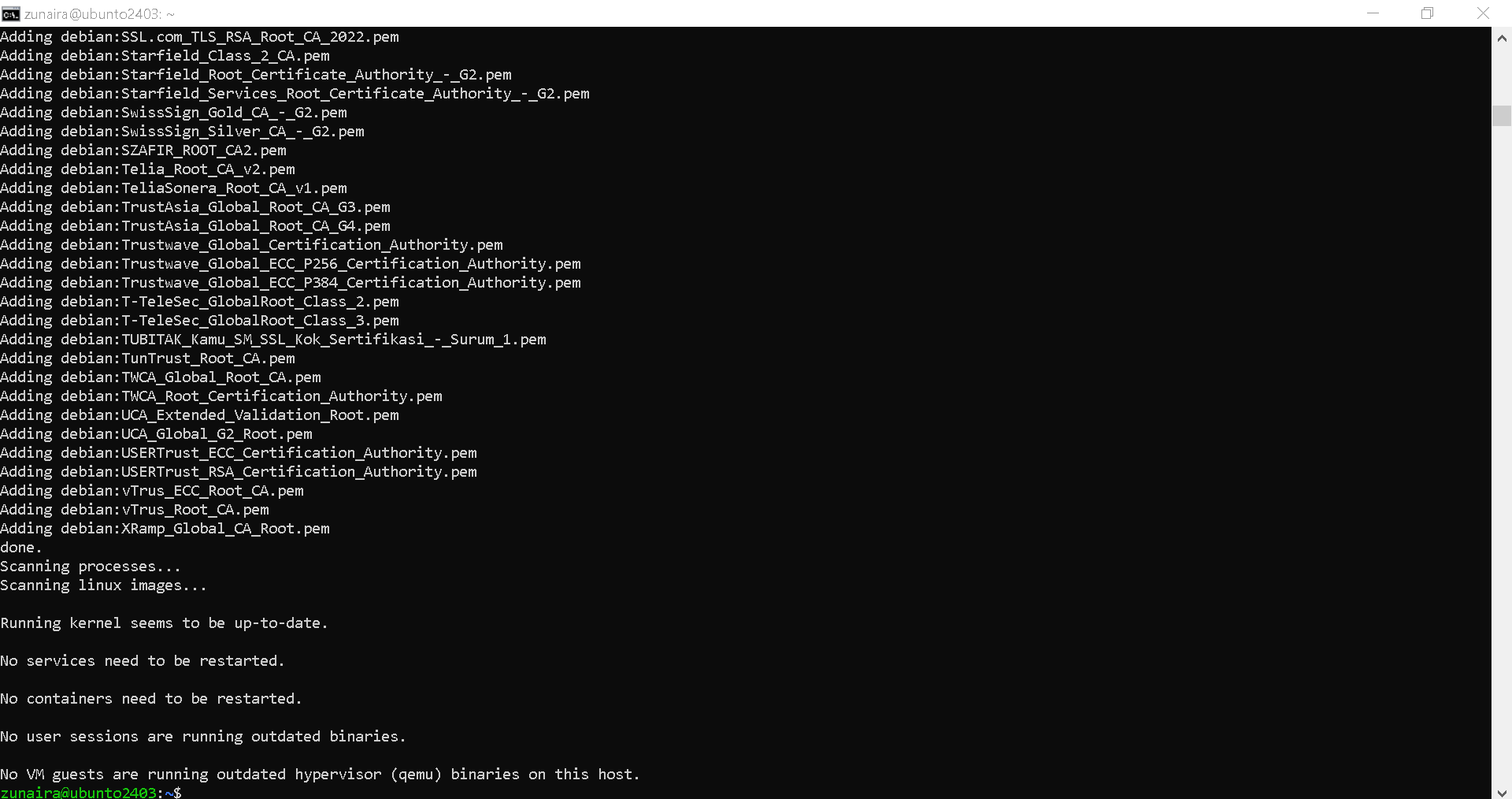
**Task 1 - Discover missing command & install Java using apt suggestion**

Step1

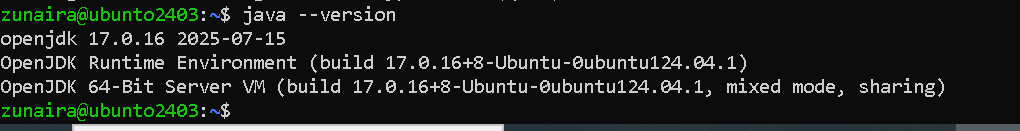


Step2

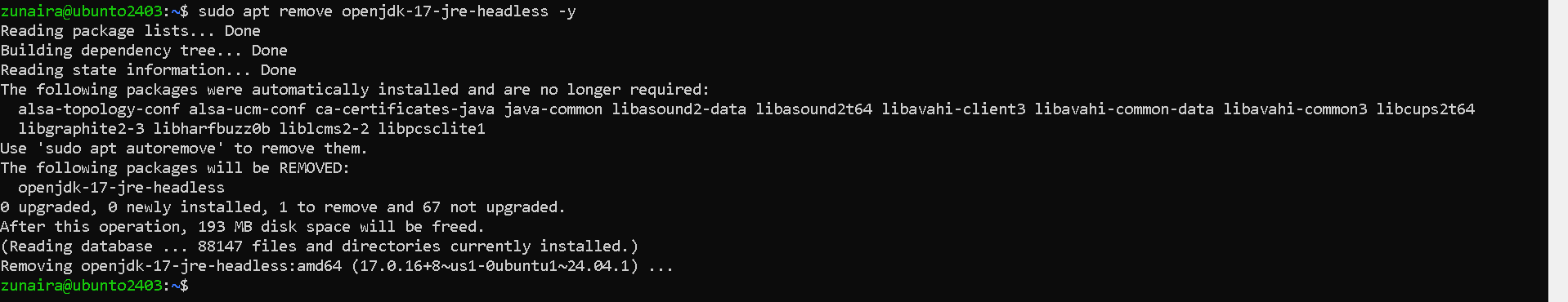


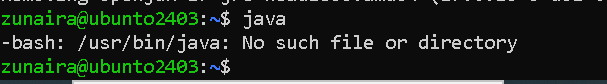


Step3

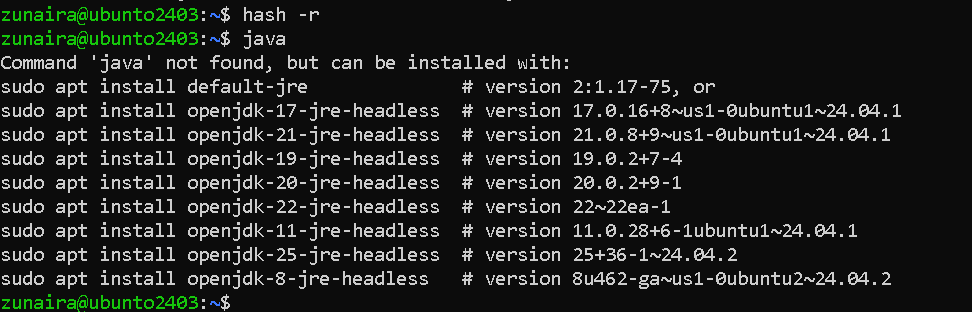


Step4



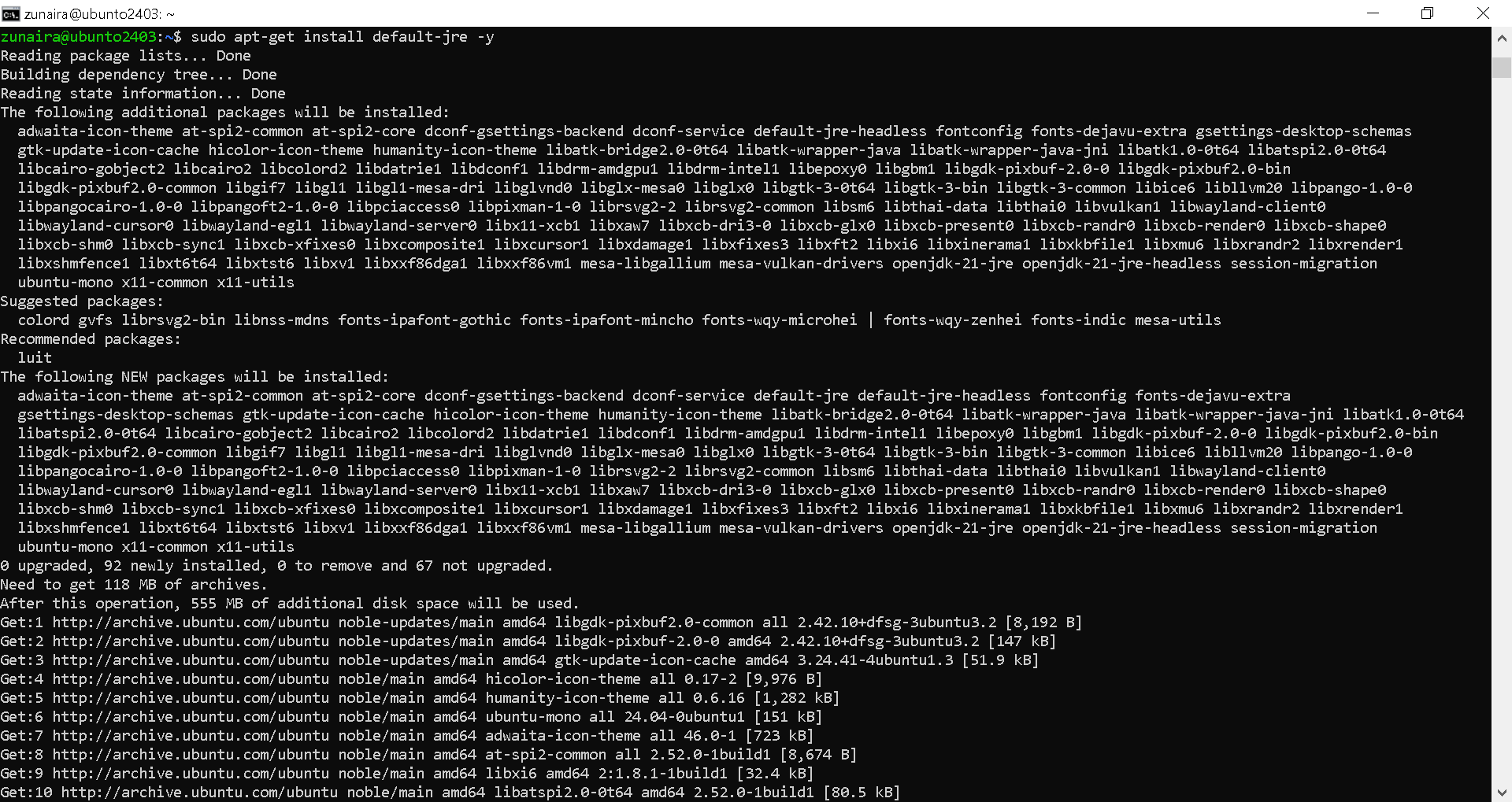
Step5

Step6

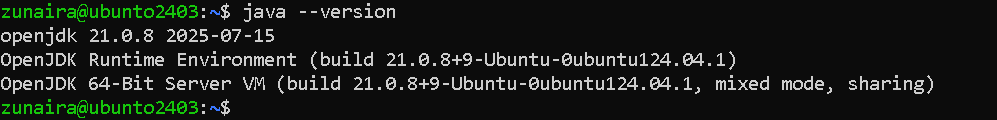


**Task 2 - Install & remove Java using apt-get (explicitly)**

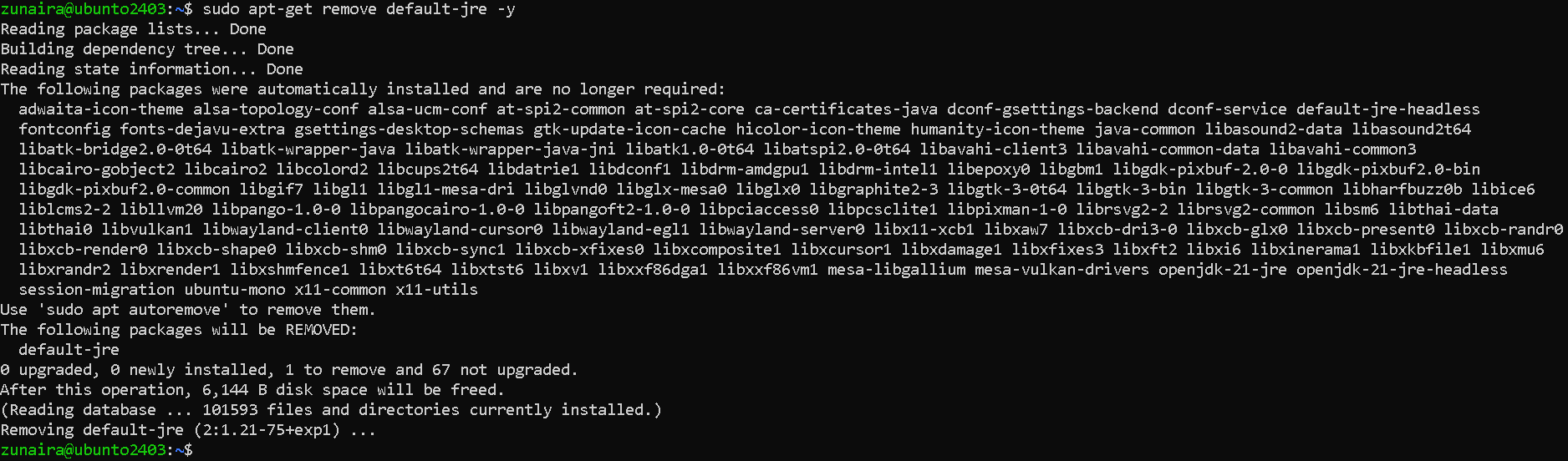
Step1



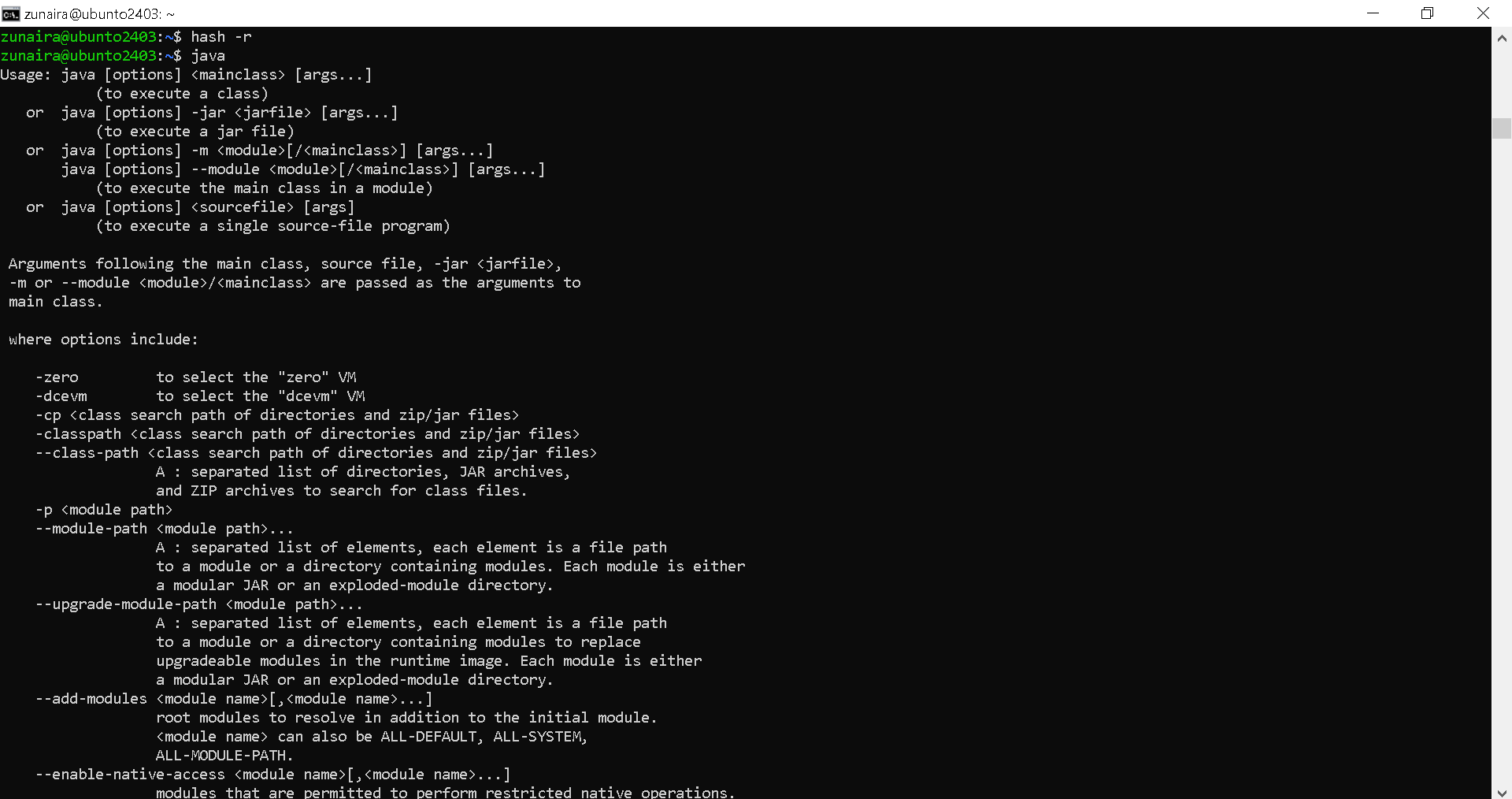
Step2



Step3

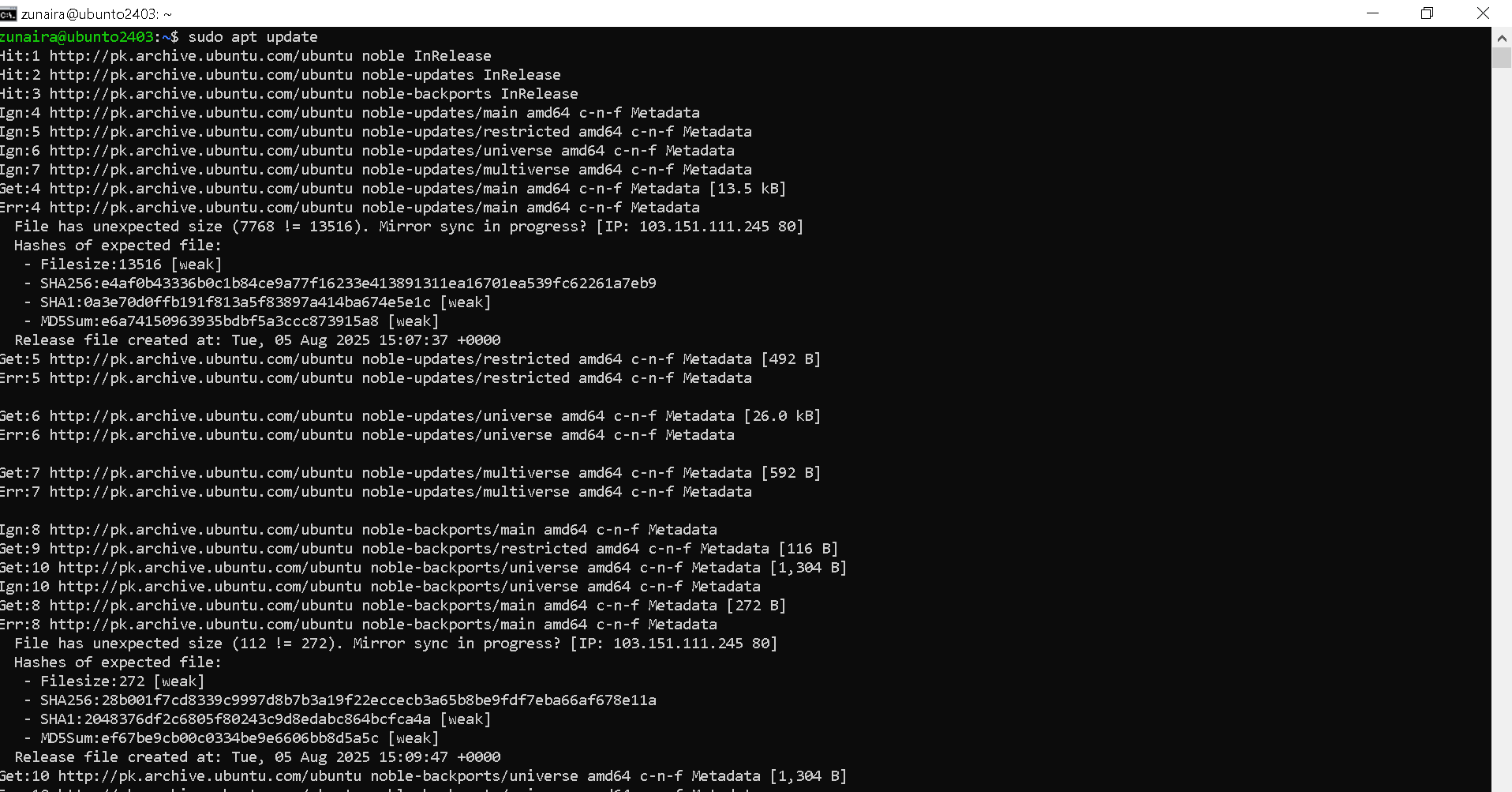


Step4

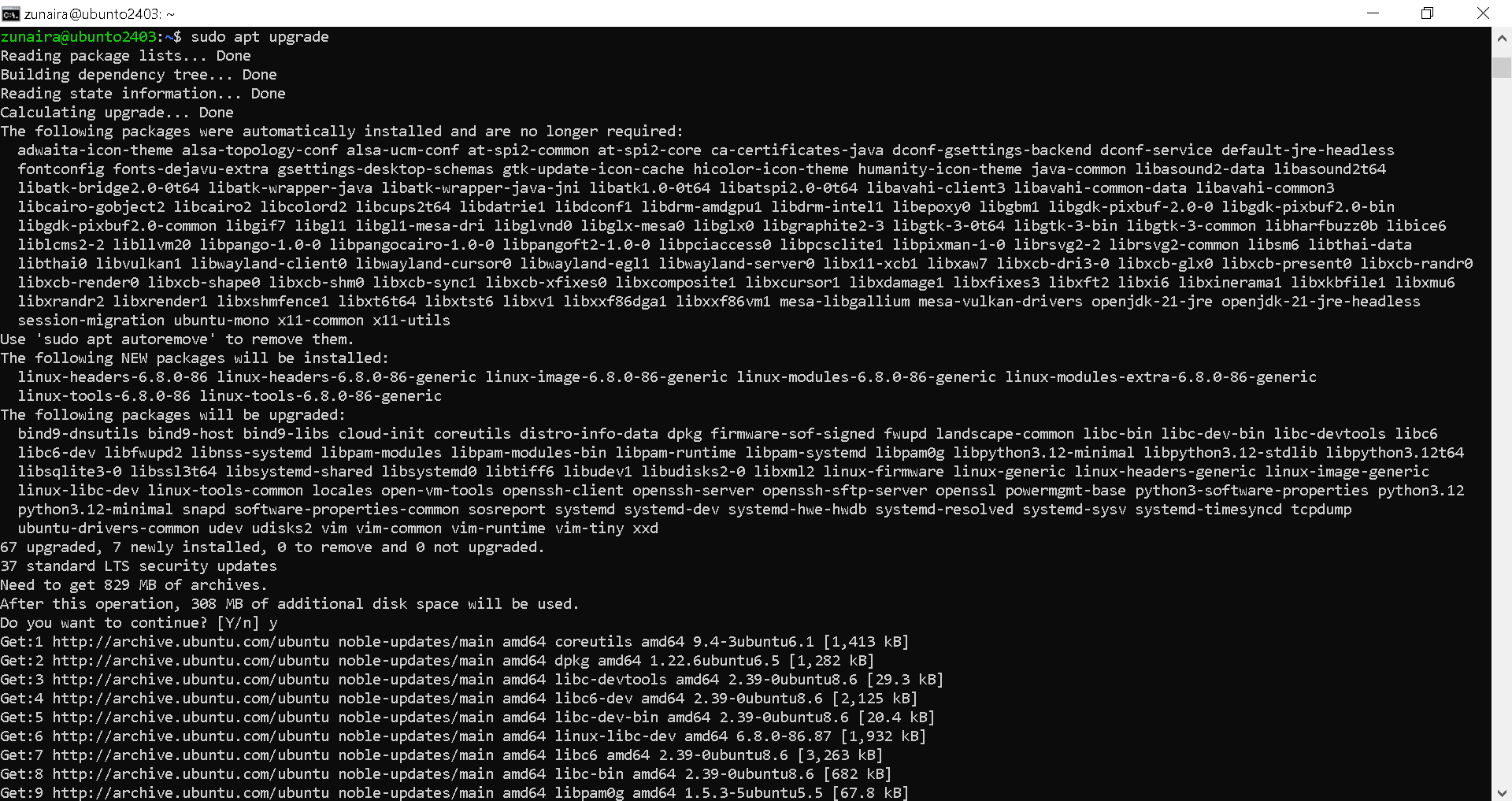


**Task 3 - apt update vs apt upgrade - run & explain**

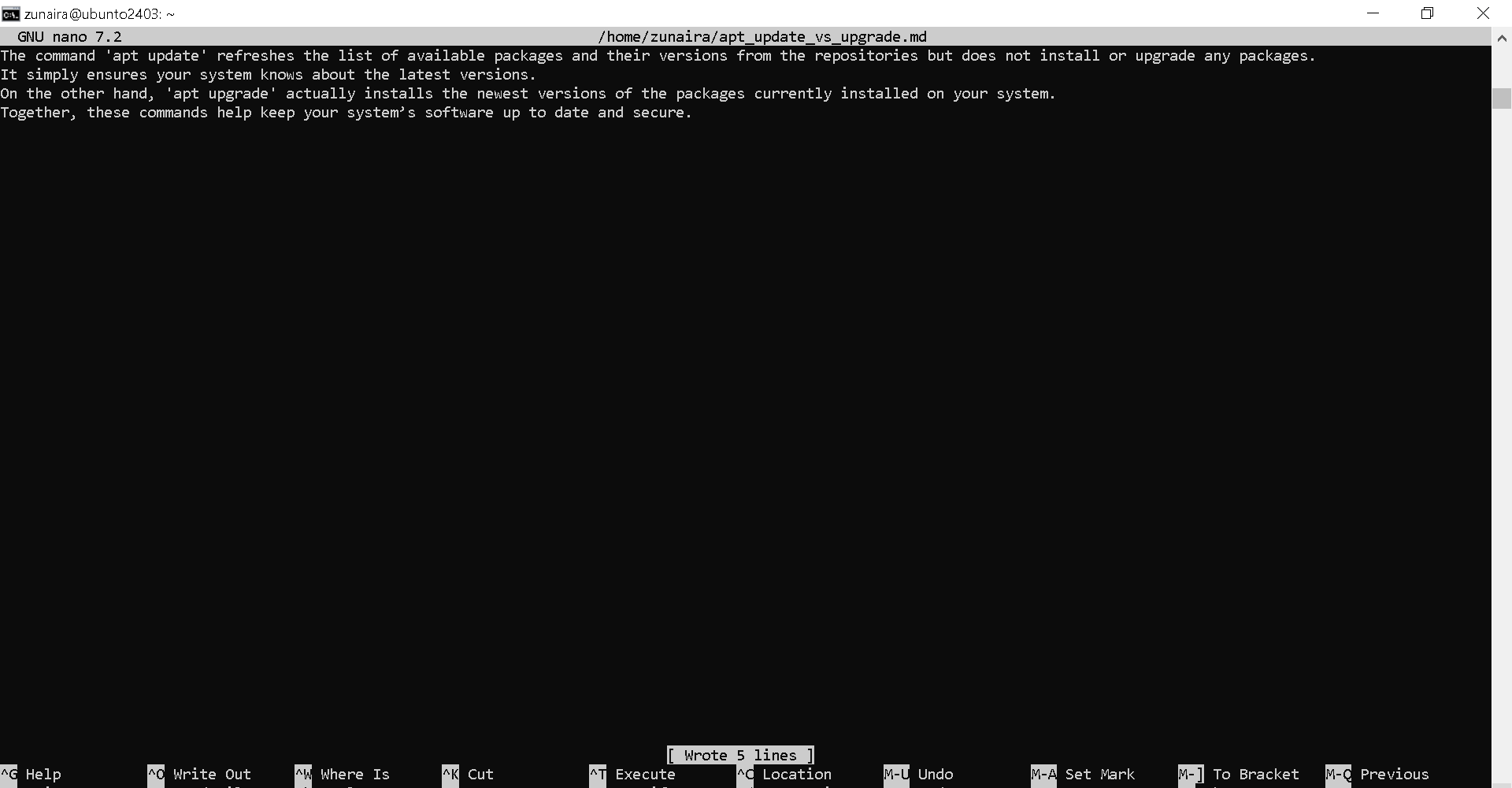
Step1

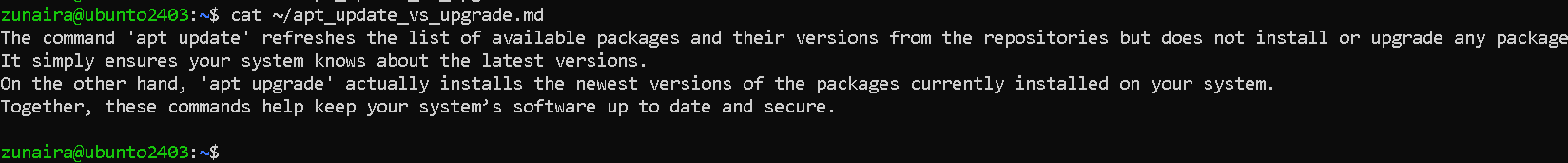


Step2



Step3





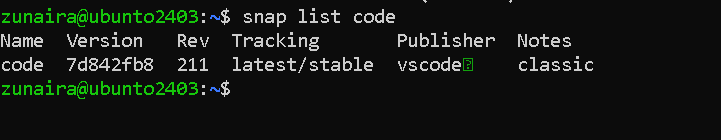
**Task 4 - Install Visual Studio Code via snap on CLI and verify (DO NOT remove Code)**

Step1

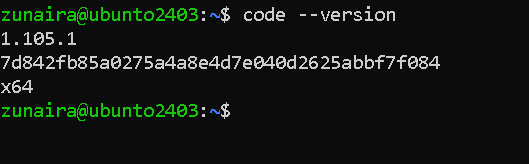




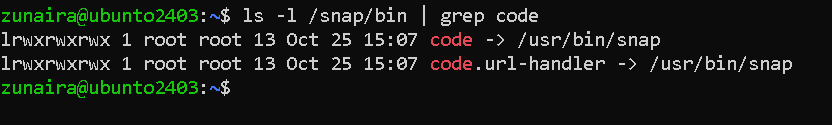
Step2



Step3

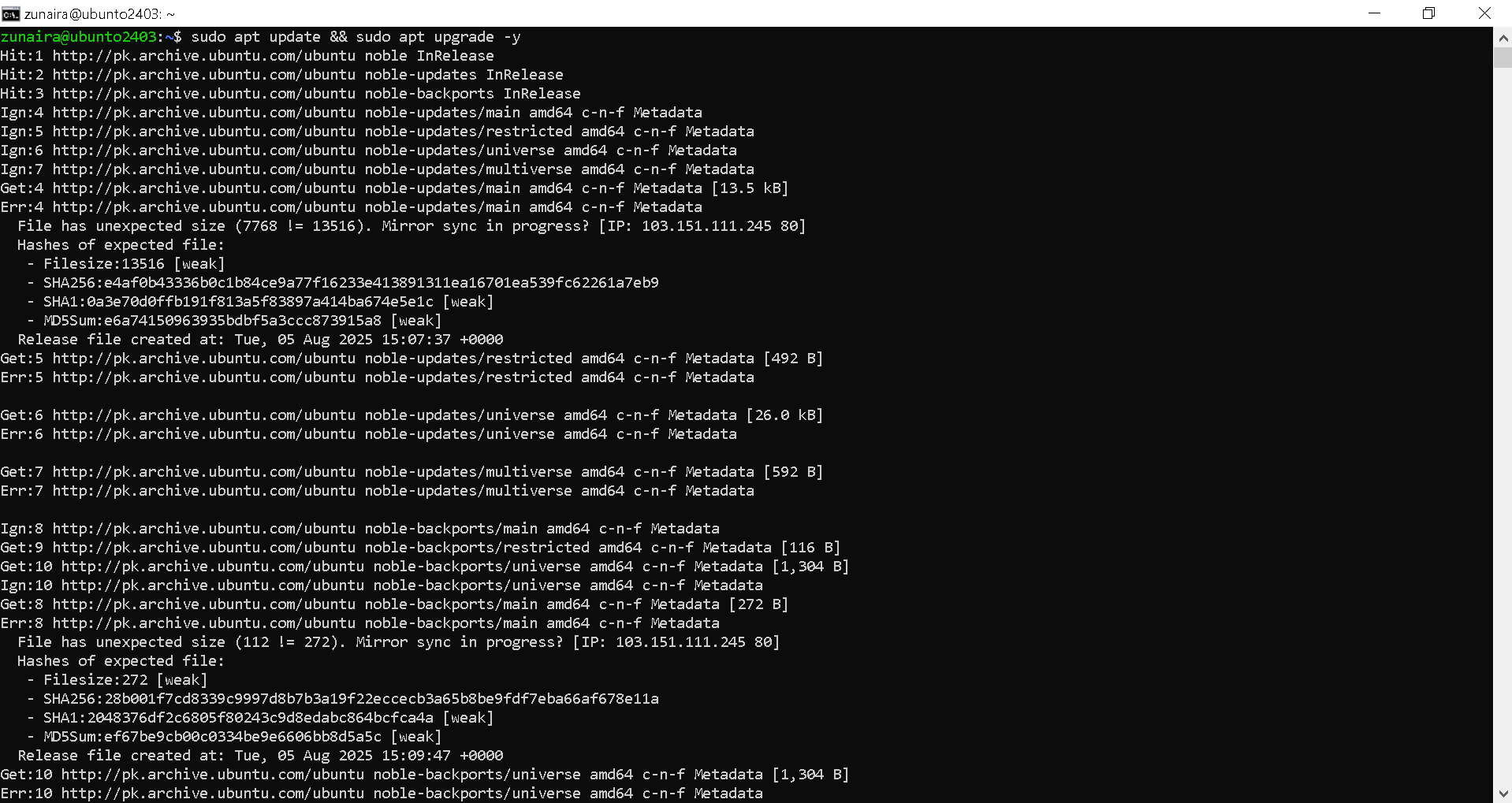


Step4

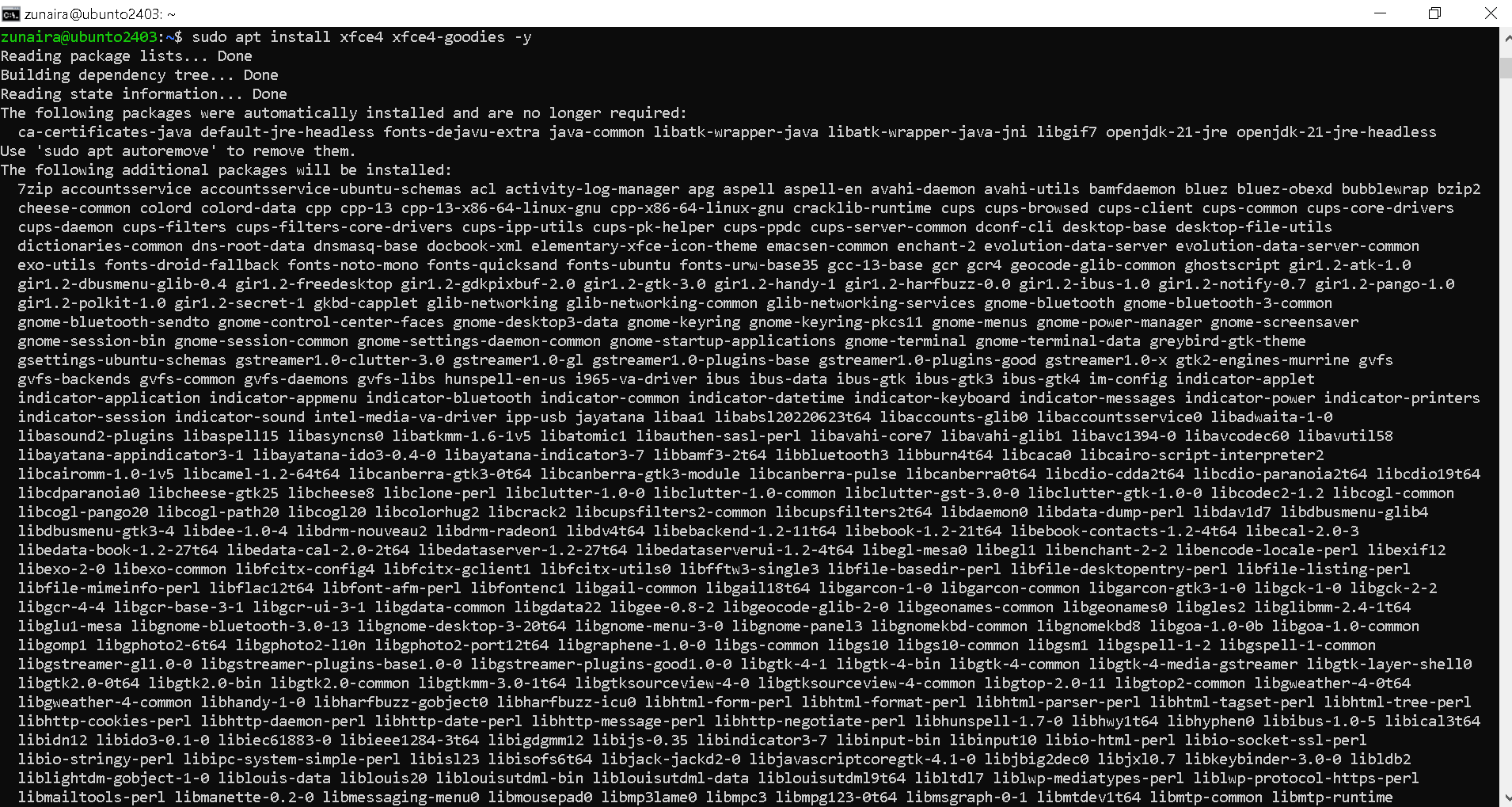


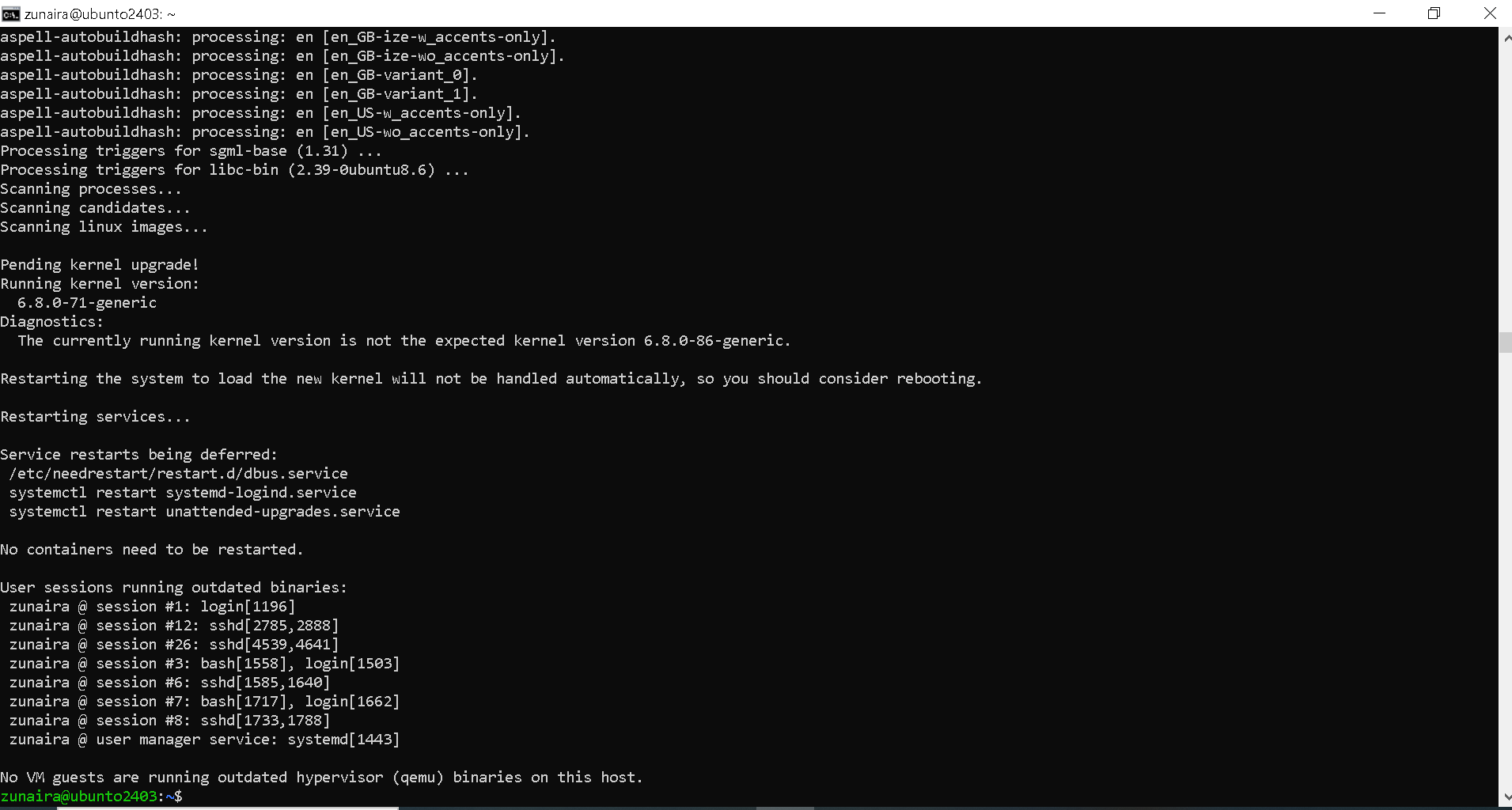
**Task 5 - Install XFCE GUI + XRDP - minimal desktop and remote access (GUI) and launch VS Code**

Step1&2

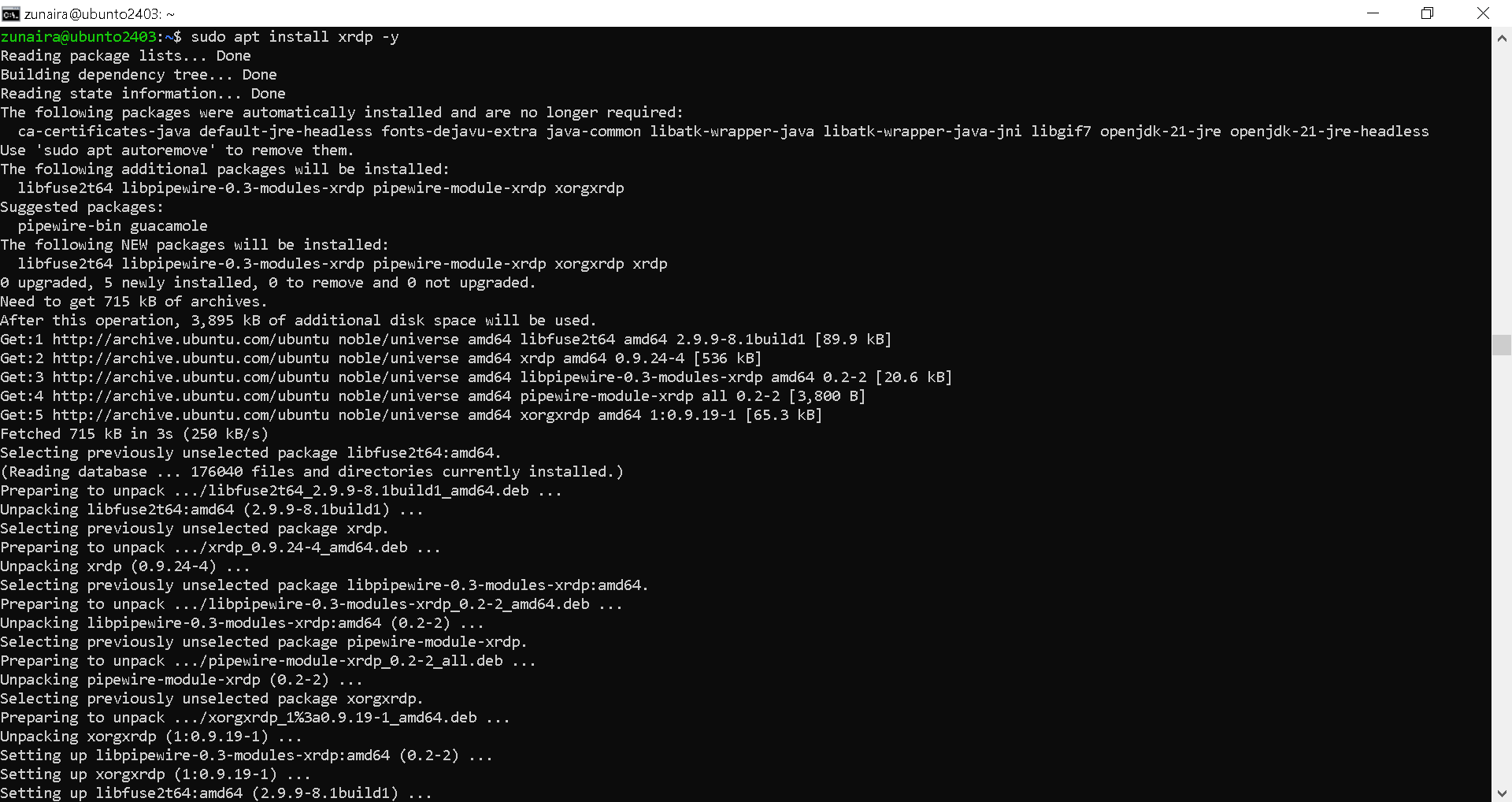


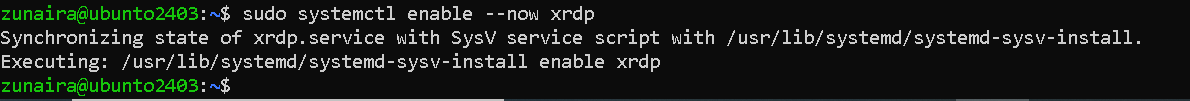
Step3



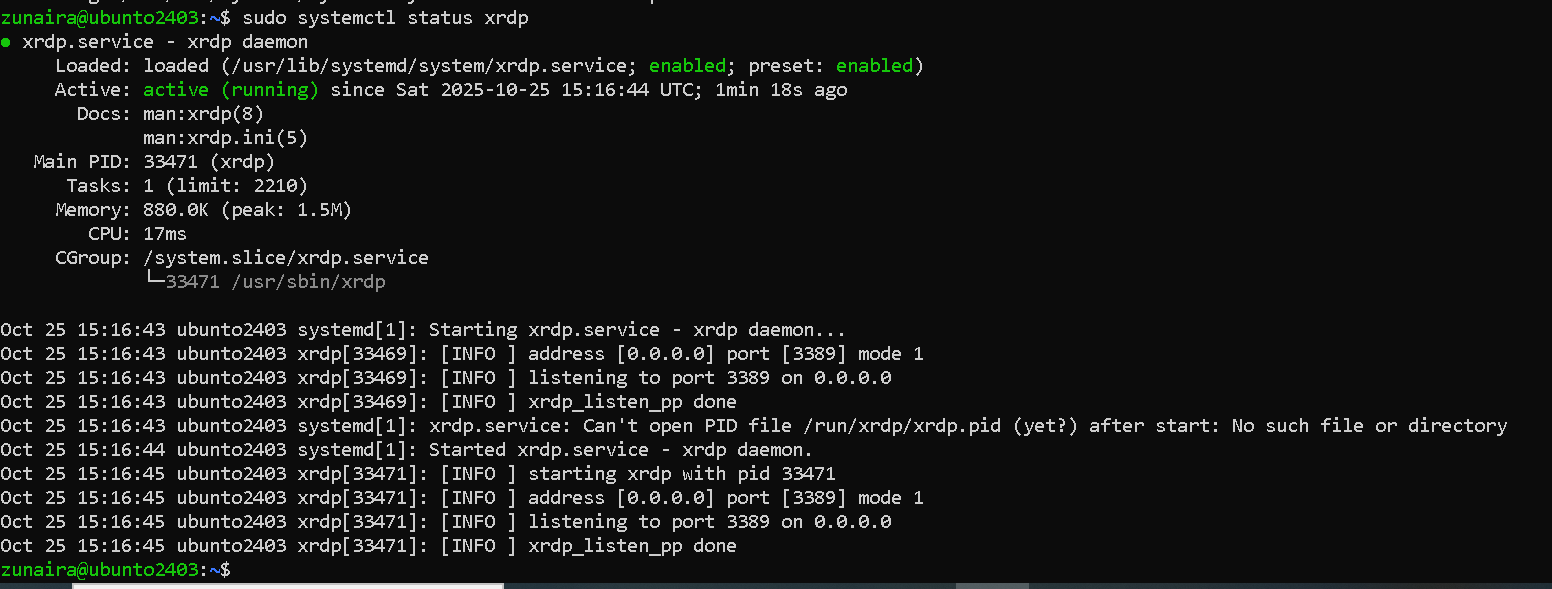


Step4





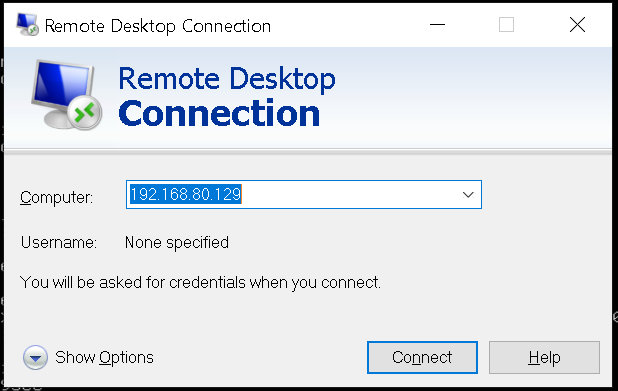
Step5

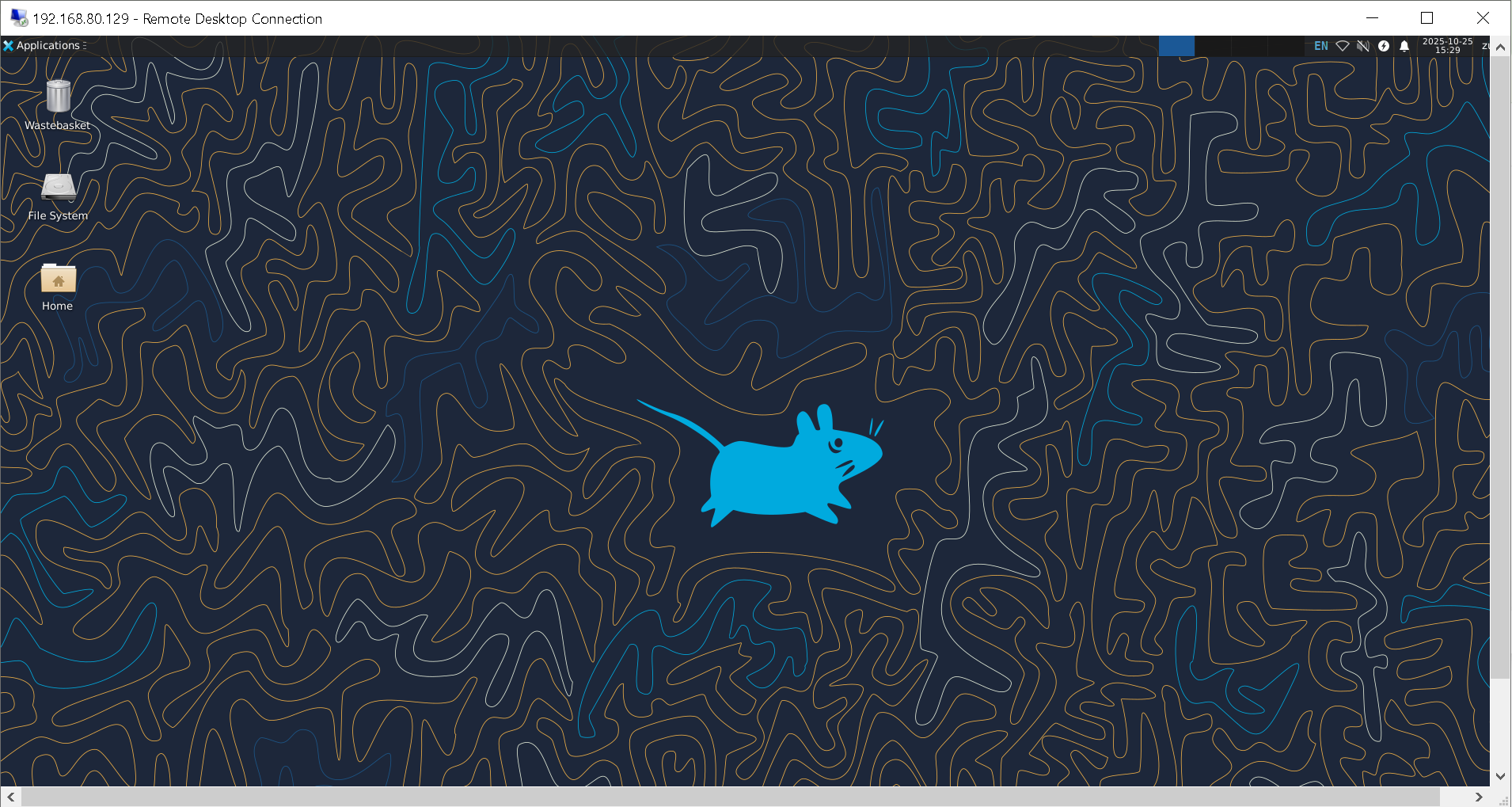


Step6

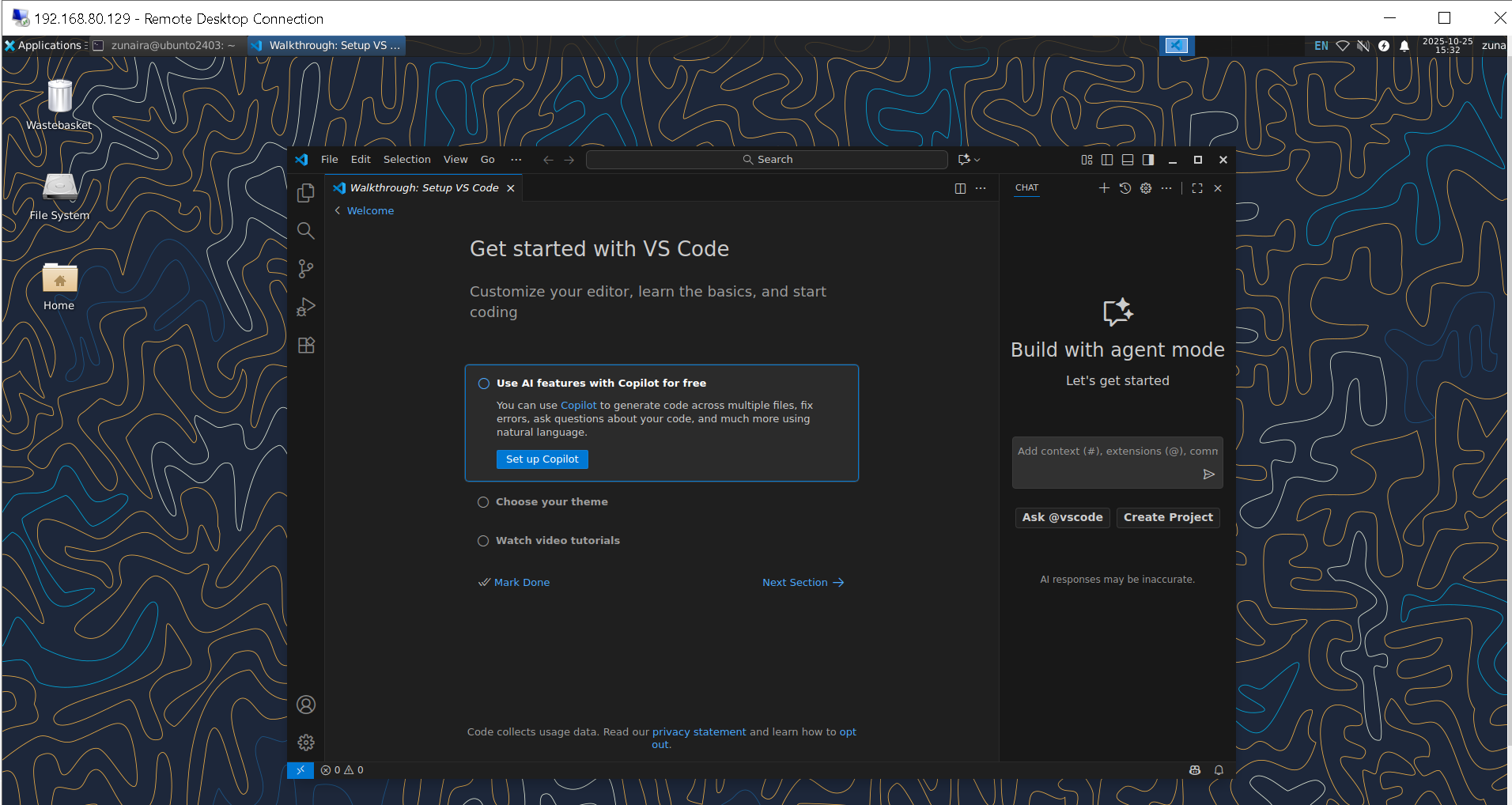


Step7

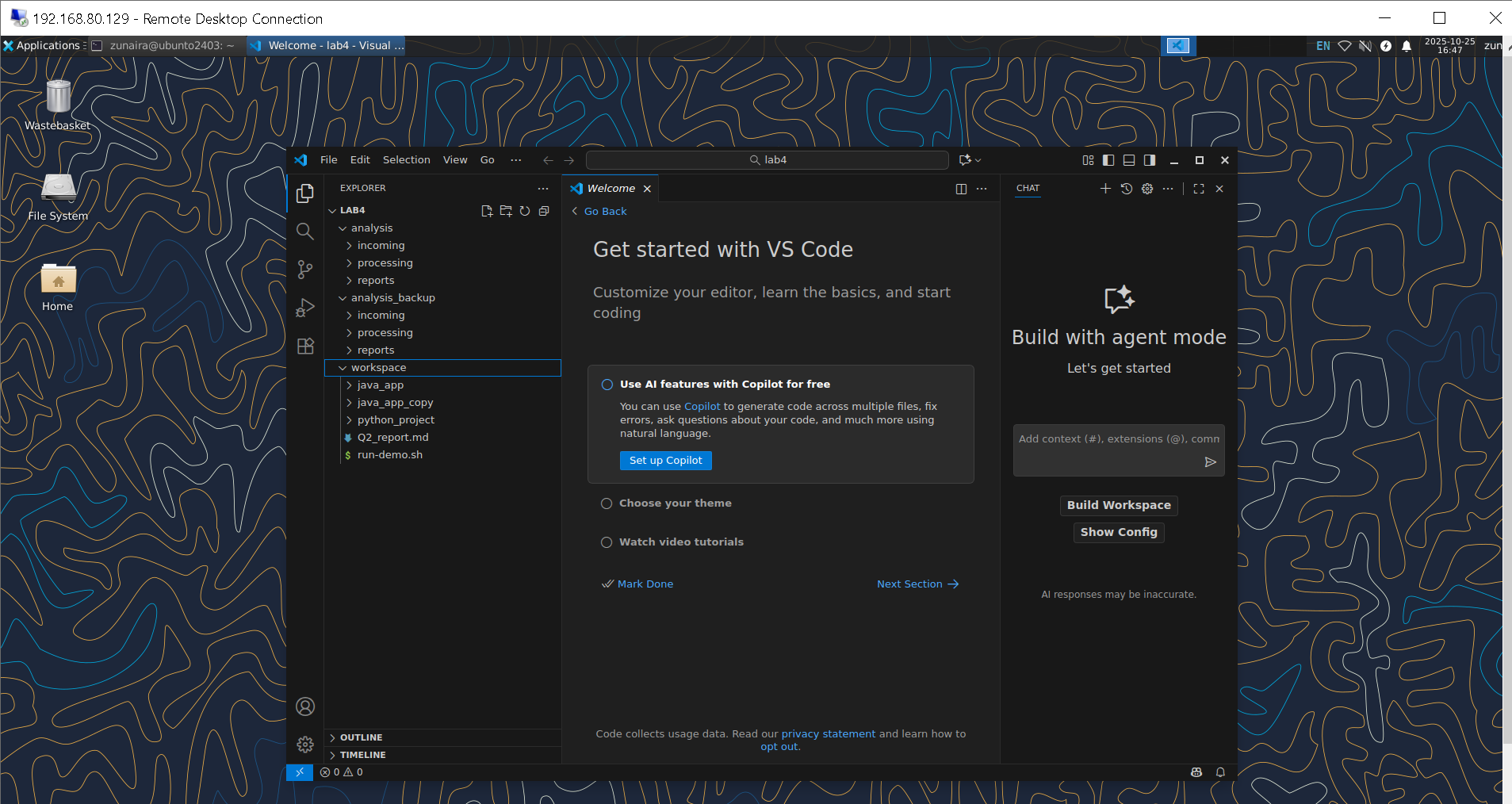




Step8

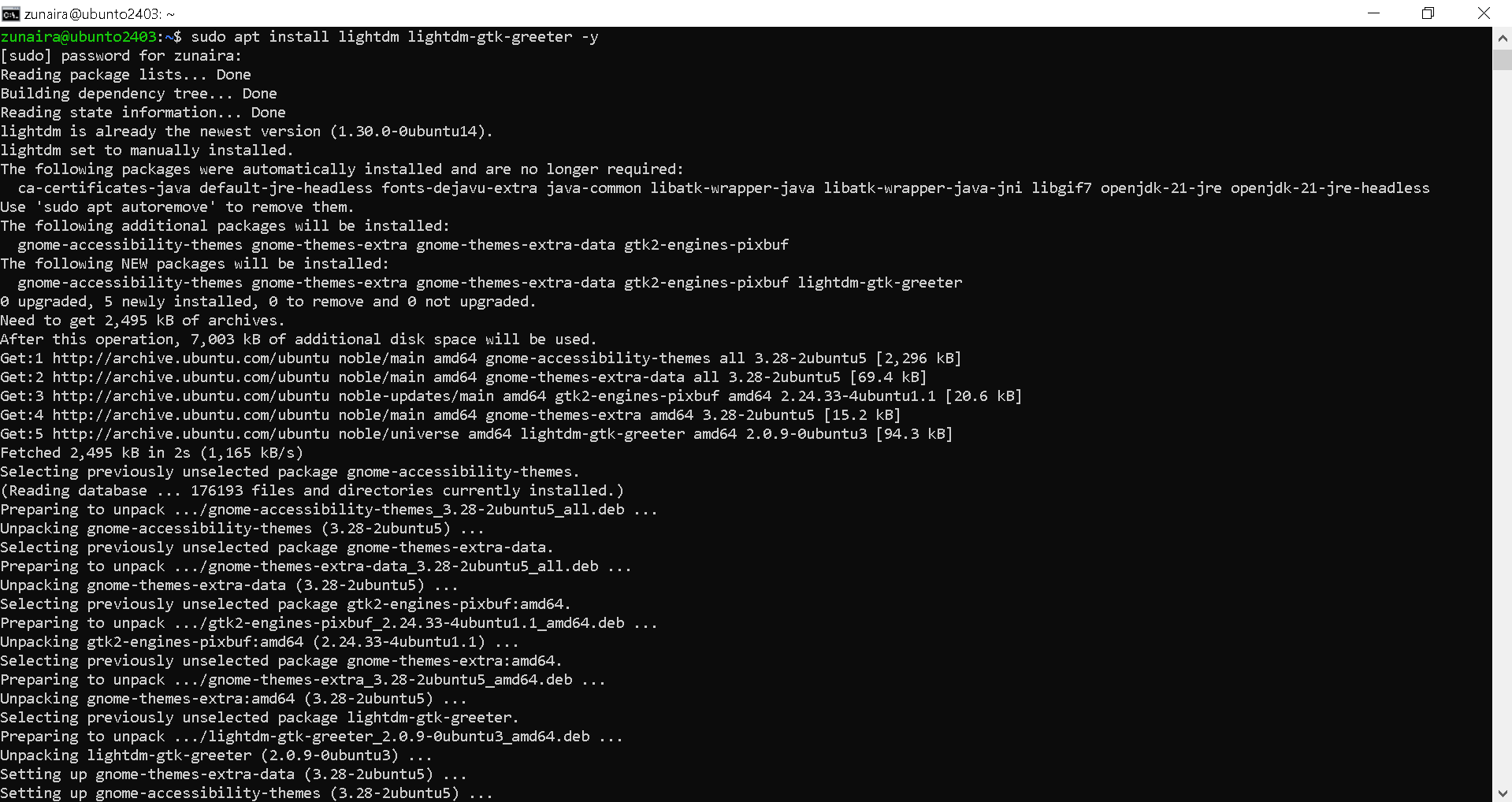


**(Optional) From inside VS Code you may open a file or explore the UI — but DO NOT need to create or save files here for Task 5.**

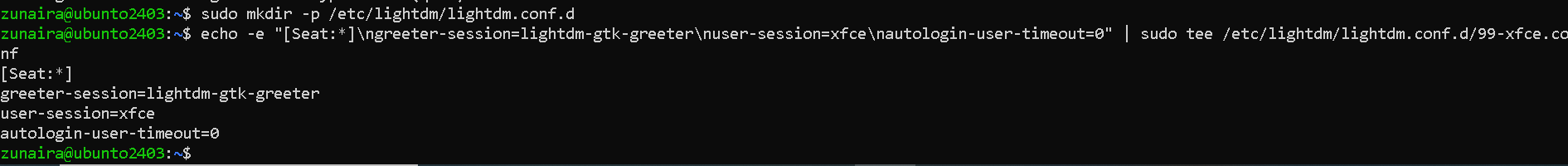


**Task 6 - Install lightdm-gtk-greeter and GUI verification - start GUI, open VS Code, take snapshot, then end (GUI)**

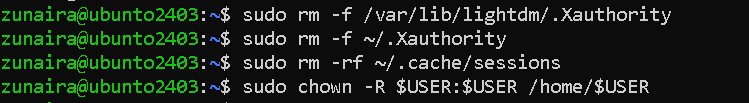
Step1



Step2



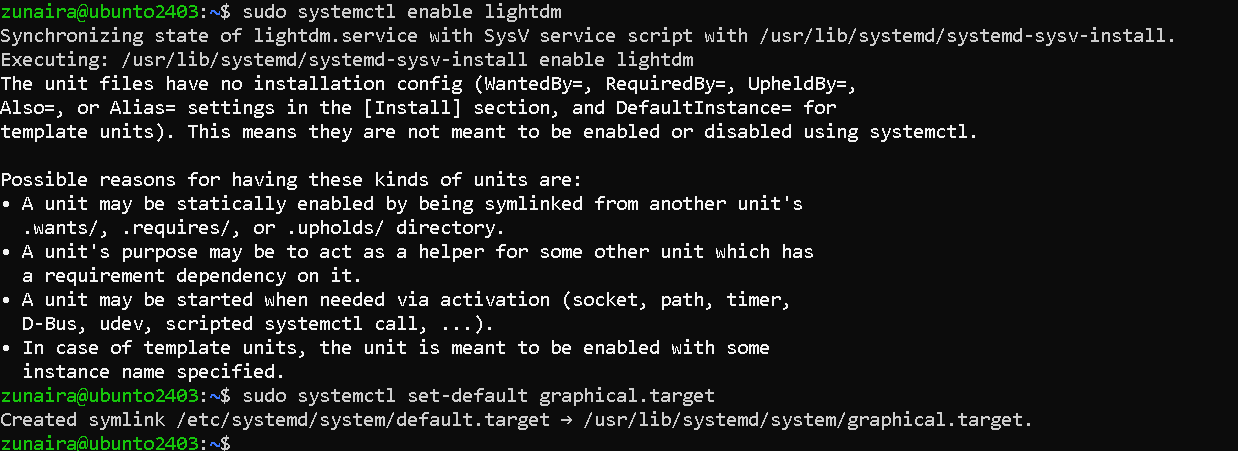
Step3



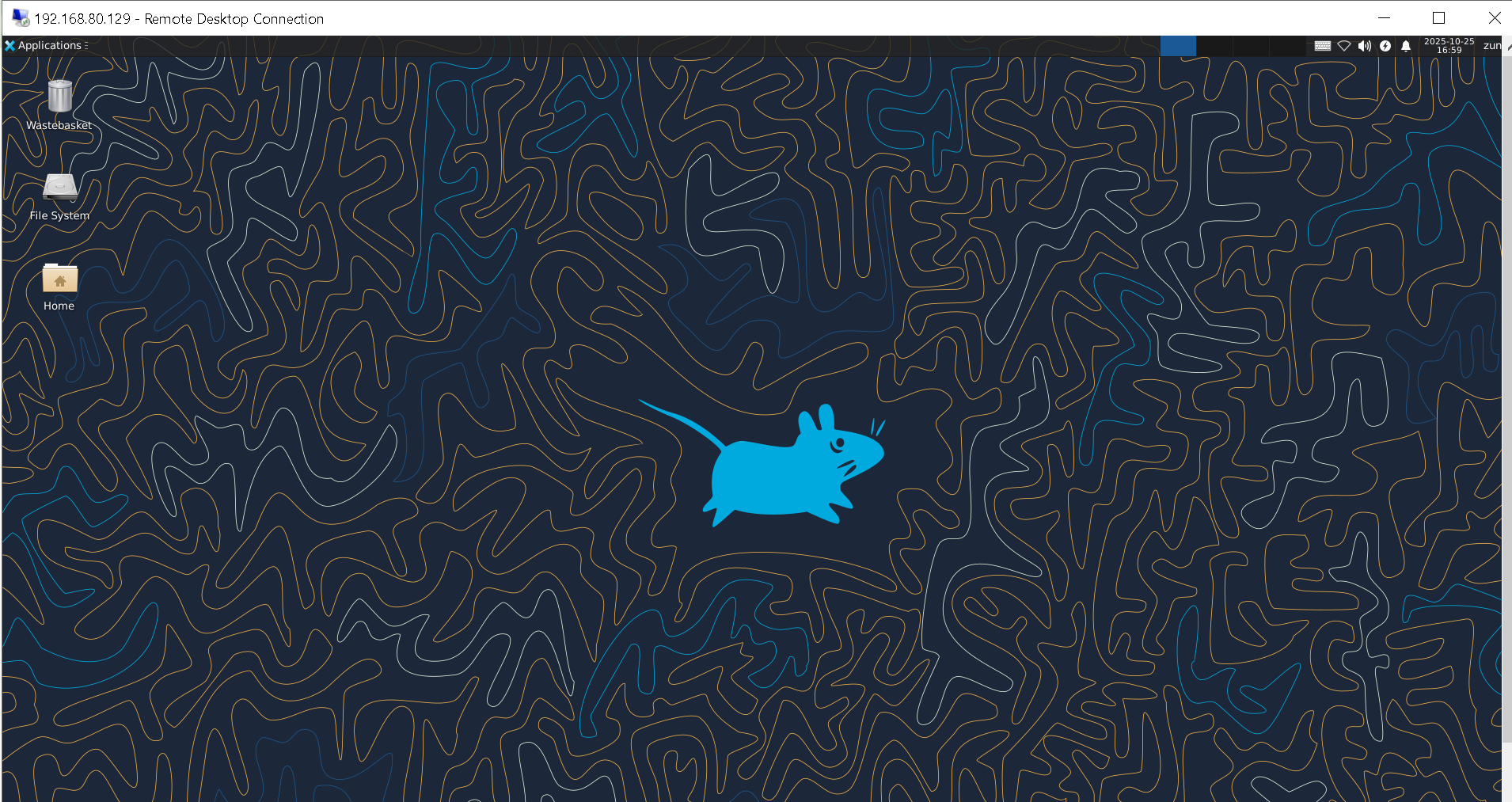
Step4



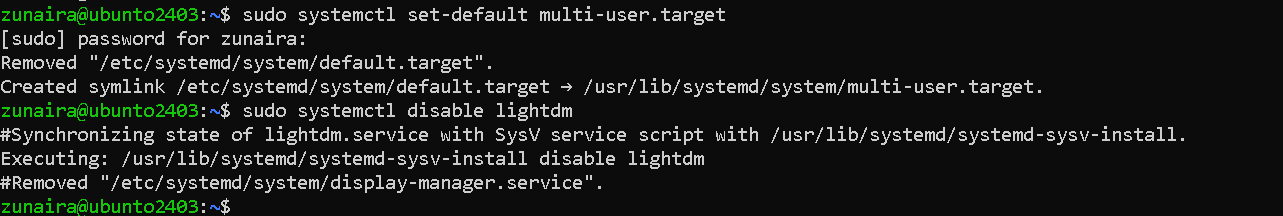
Step5



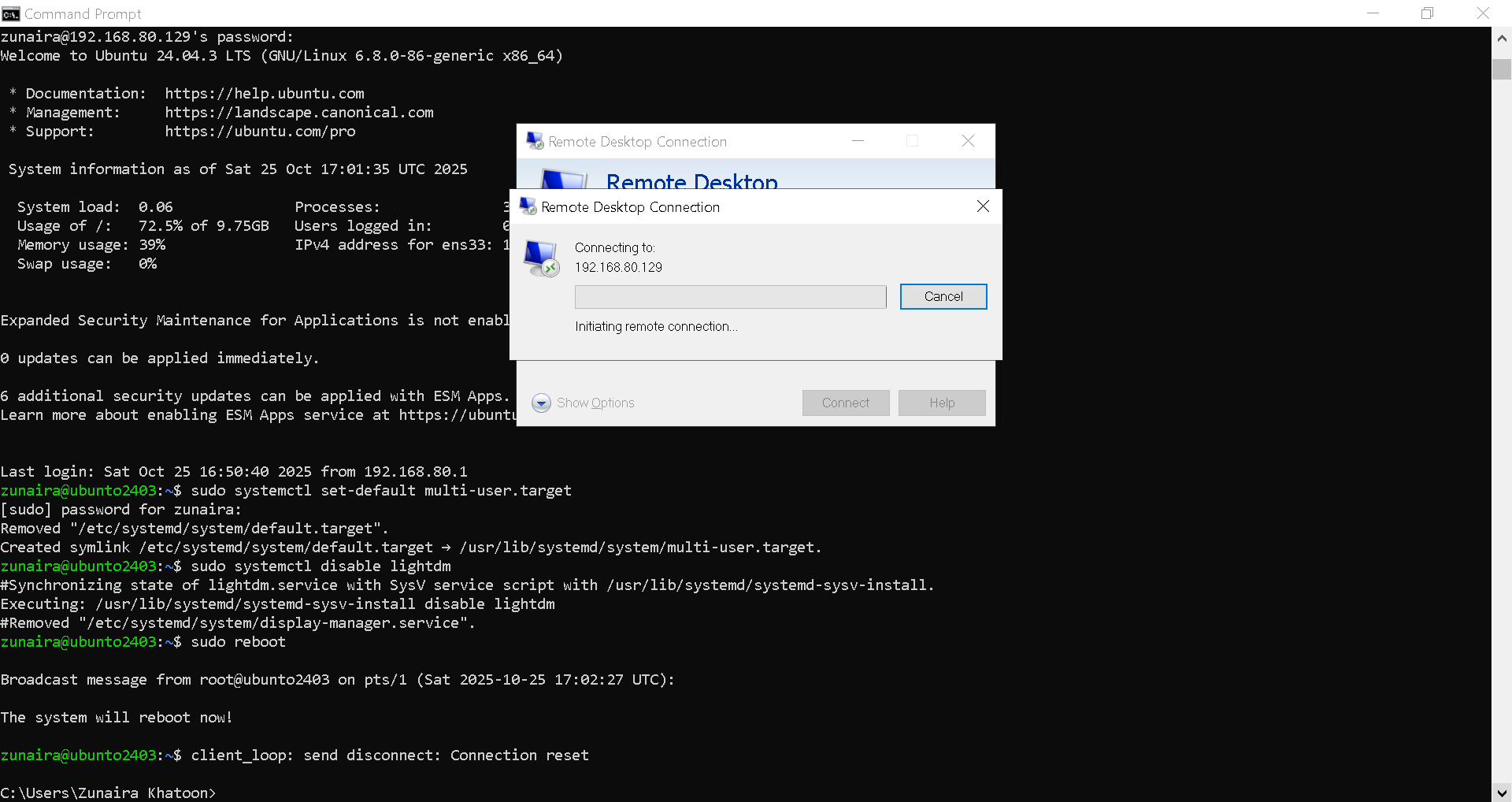
Step6



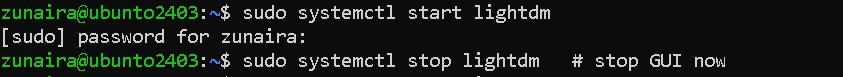
Step7



Step8



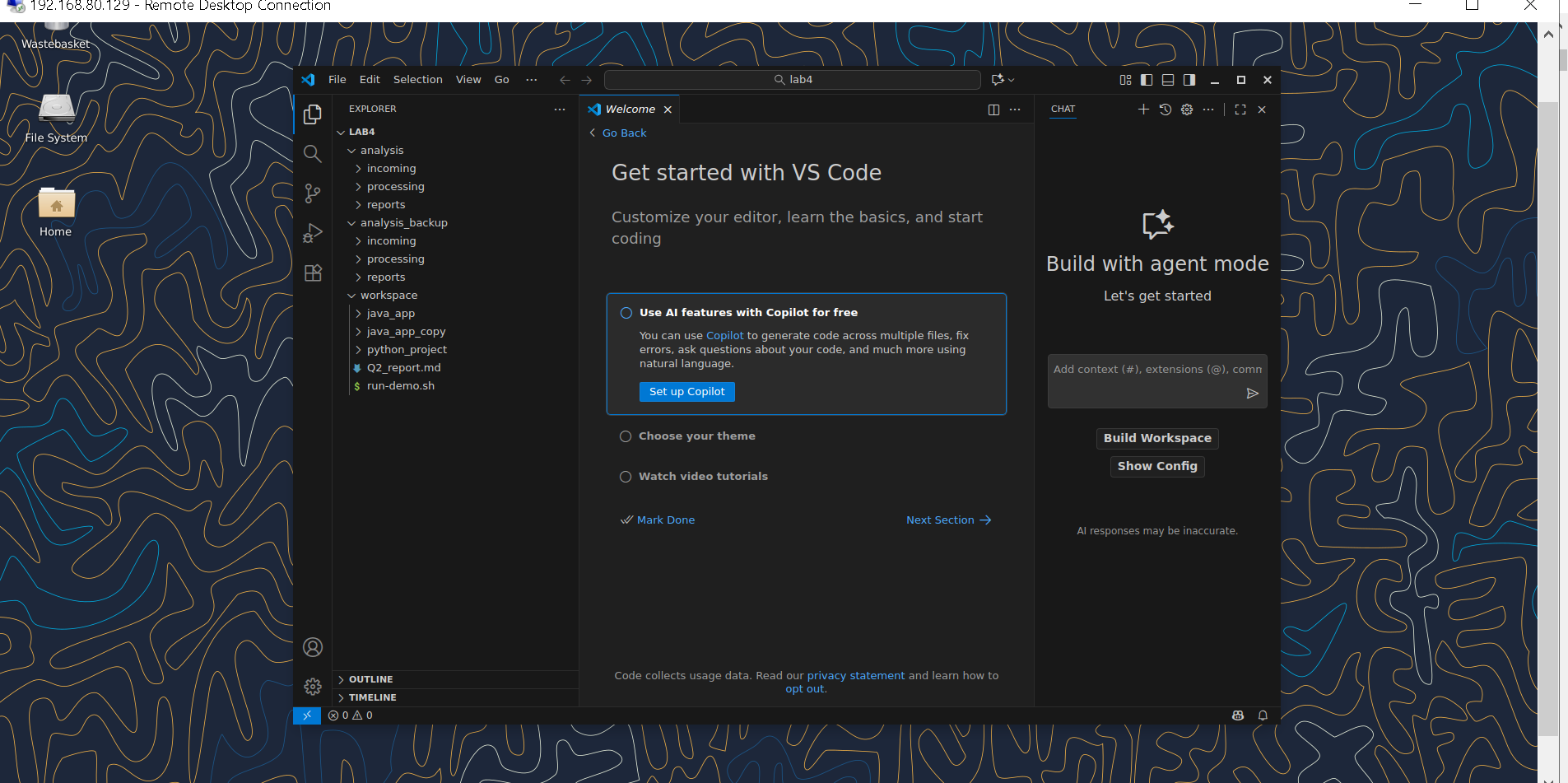
Step9



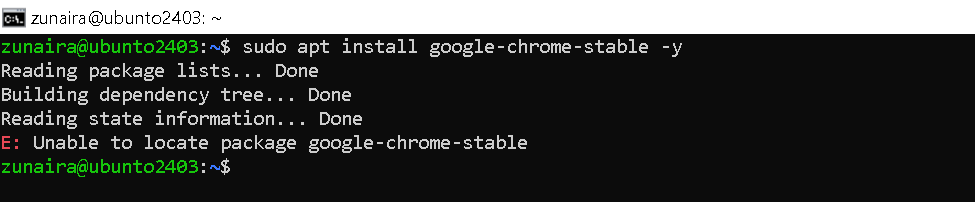
Step 10



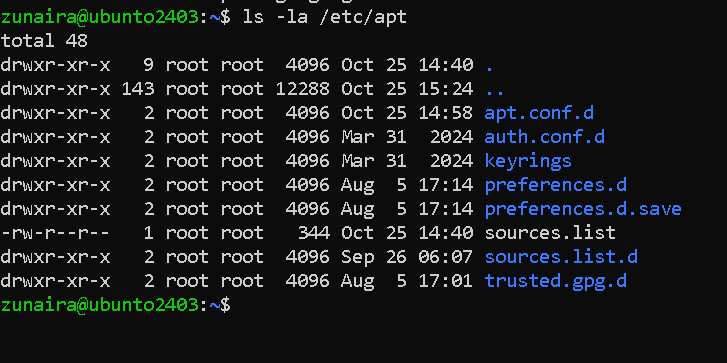
Step 11



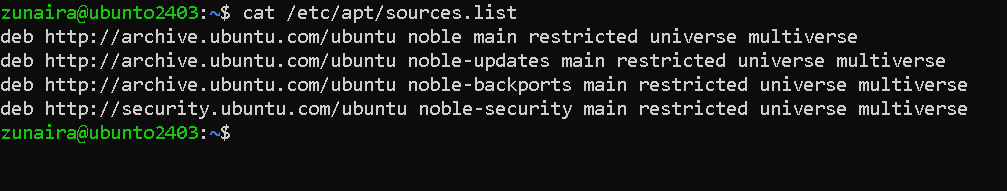
**Task 7 - Install Google Chrome by adding its apt source & key (Chrome)**

Step1

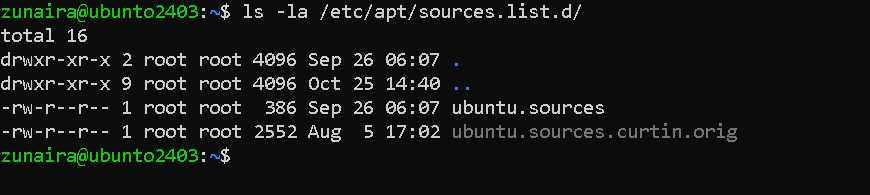
Step2



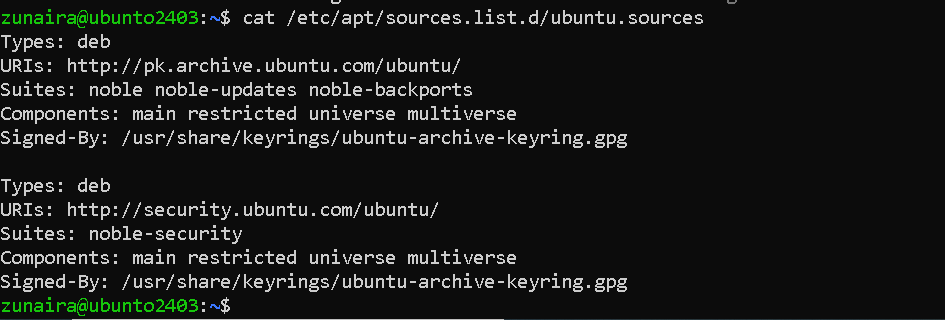
Step3



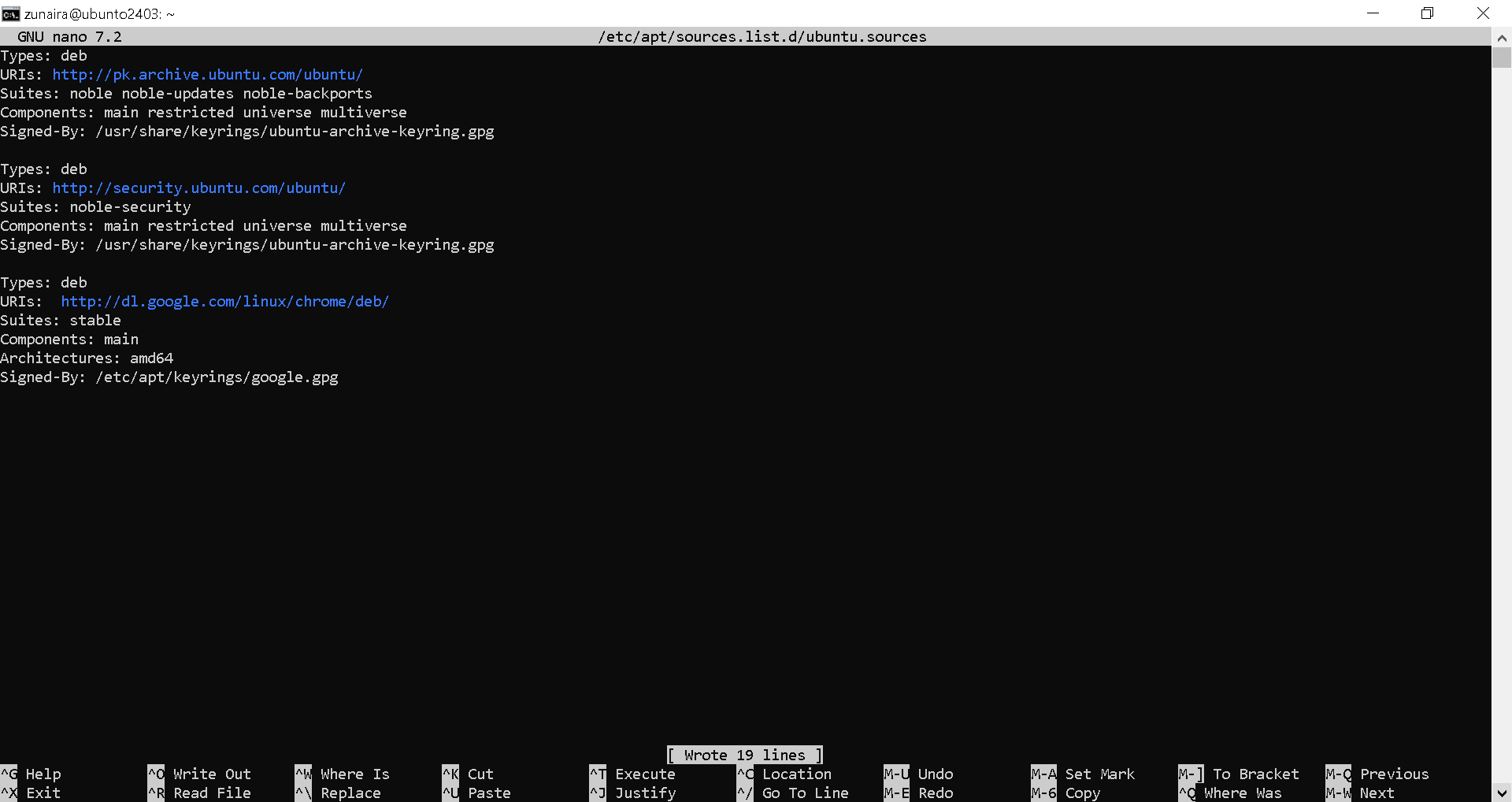
Step4

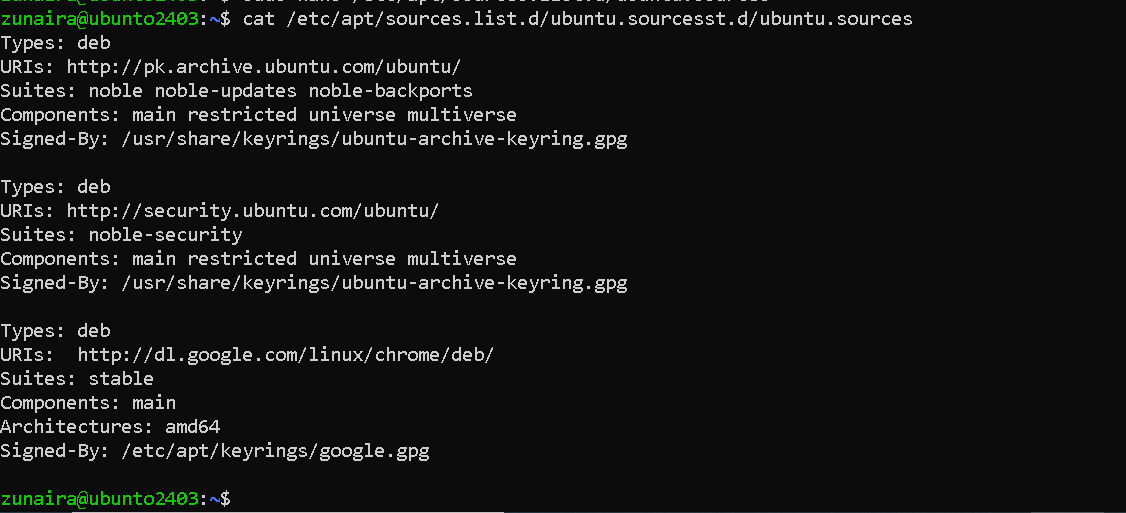


Step5



Step6

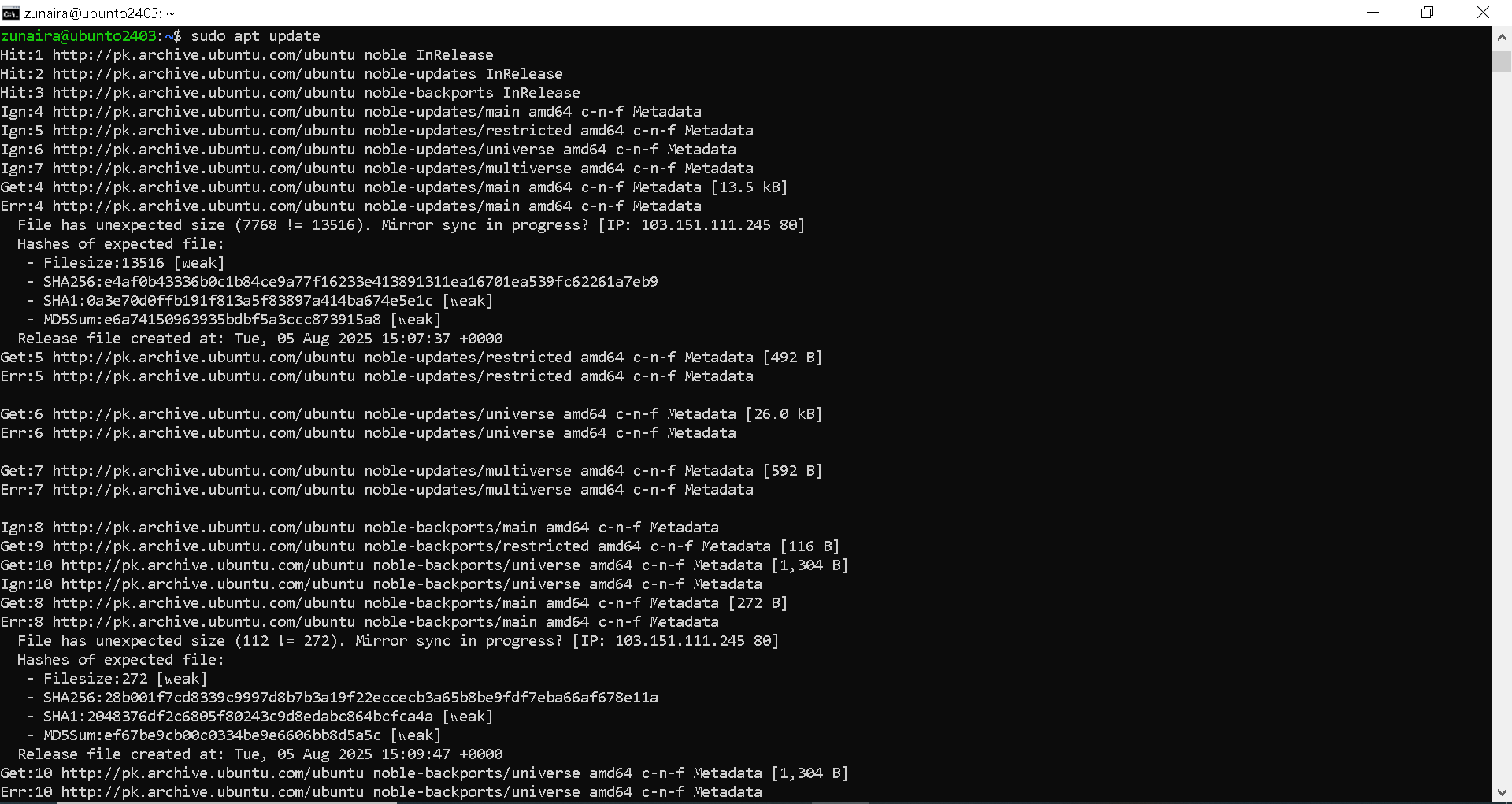


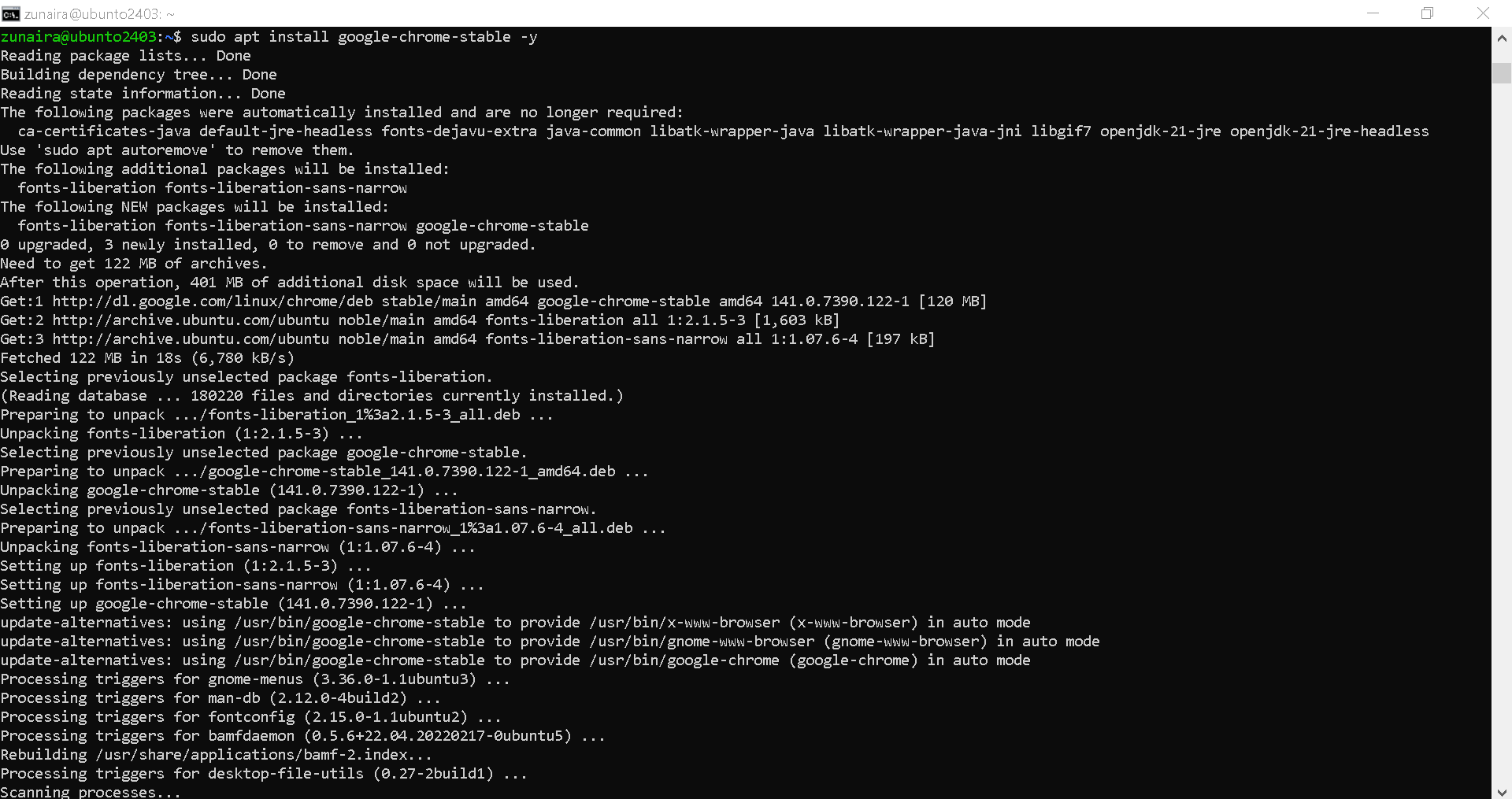


Step7

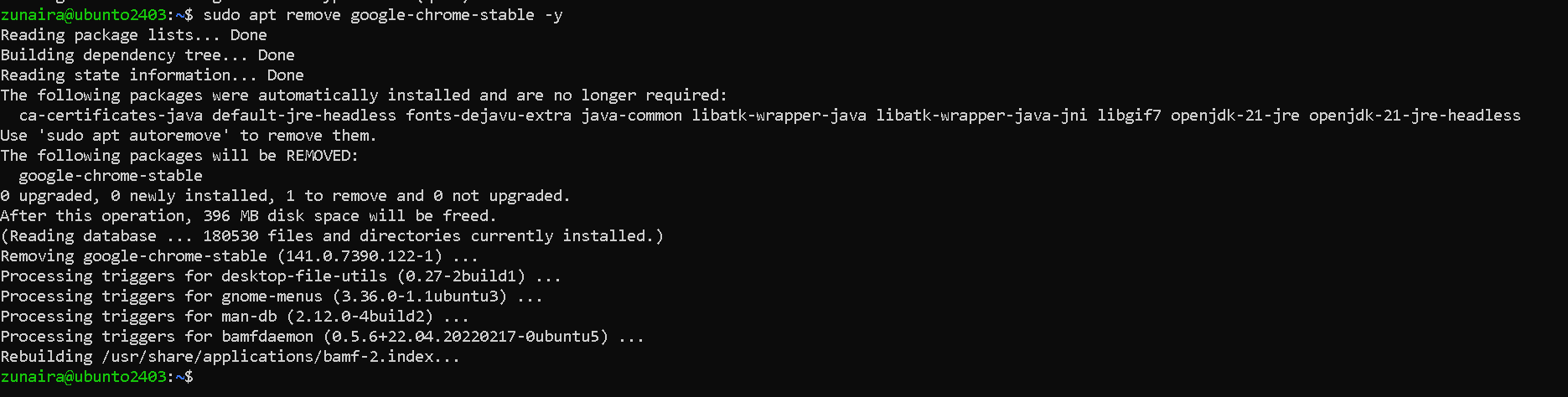


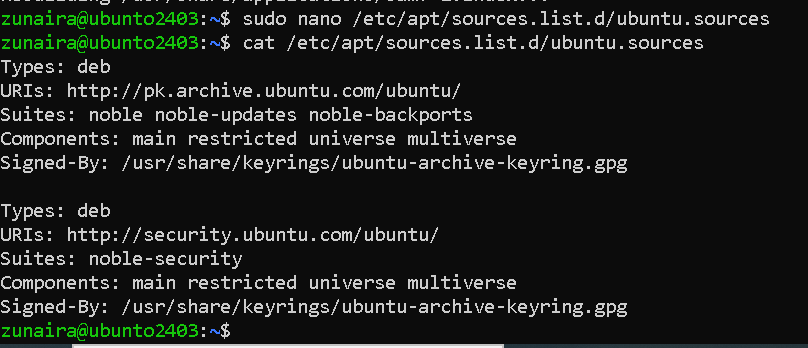
Step8





Step9





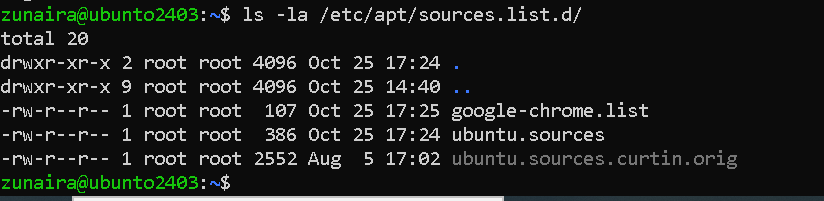
Step 10



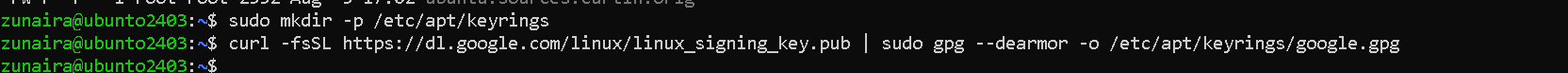
Step 11



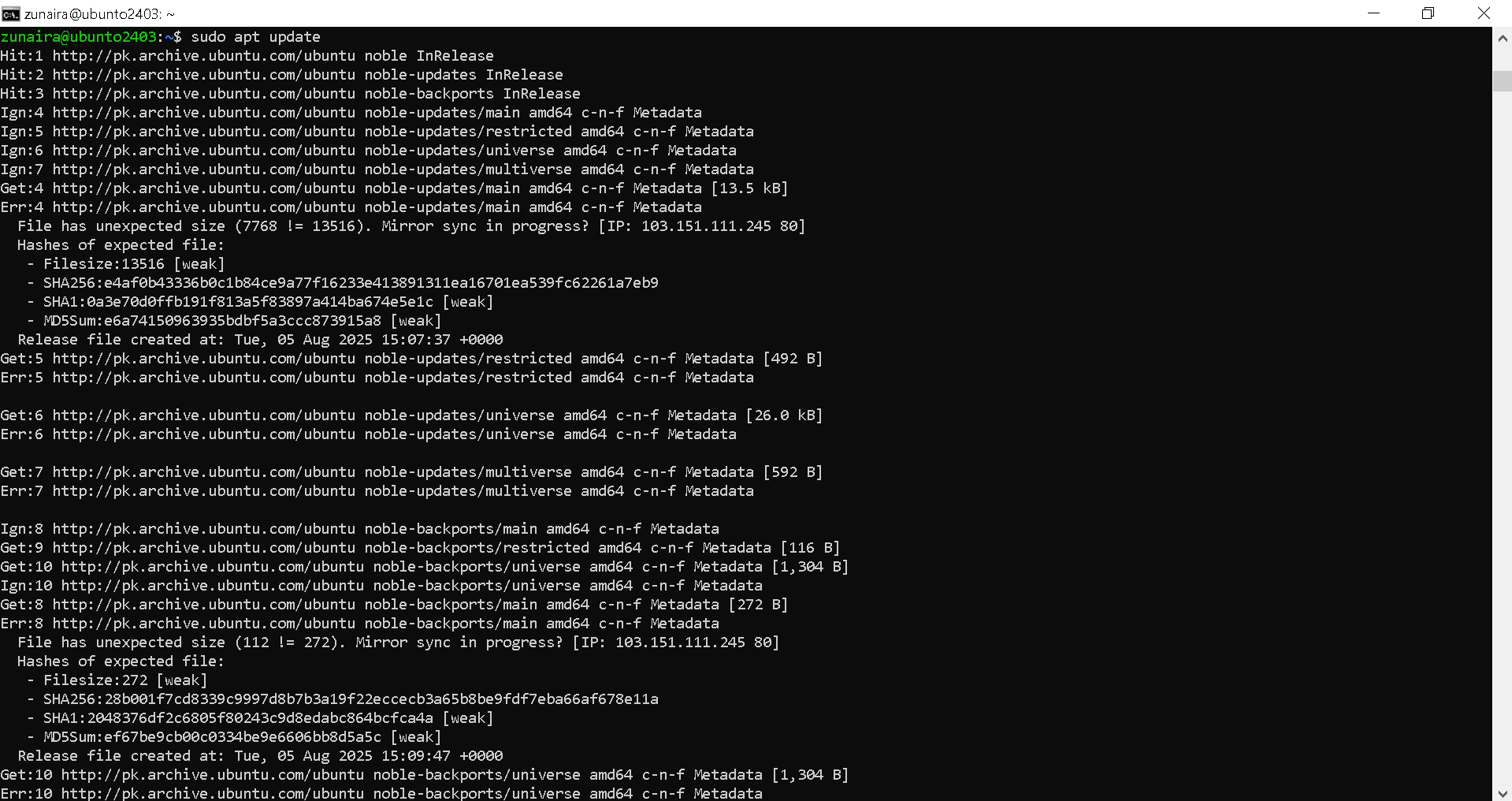
Step 12

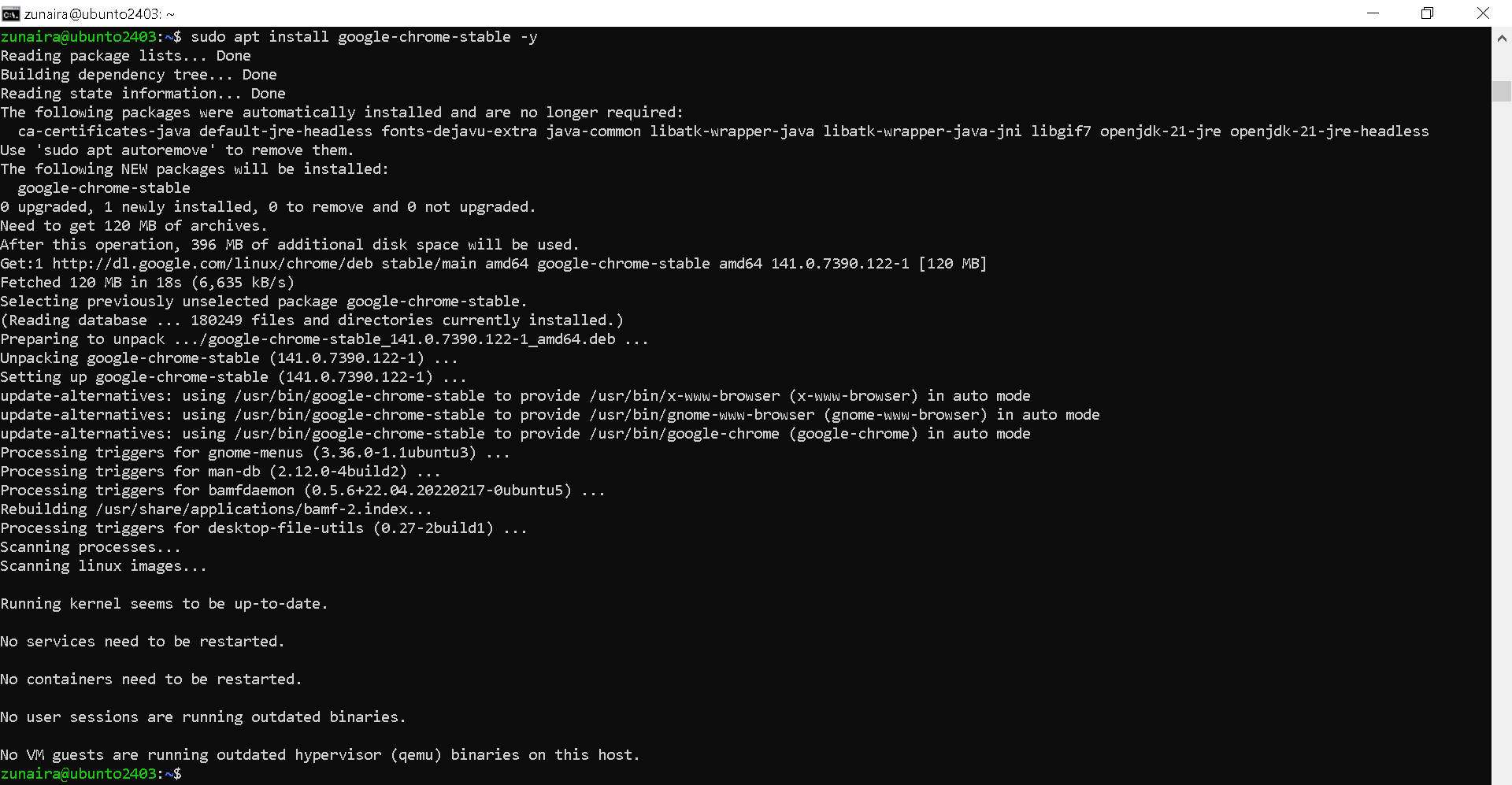


Step 13



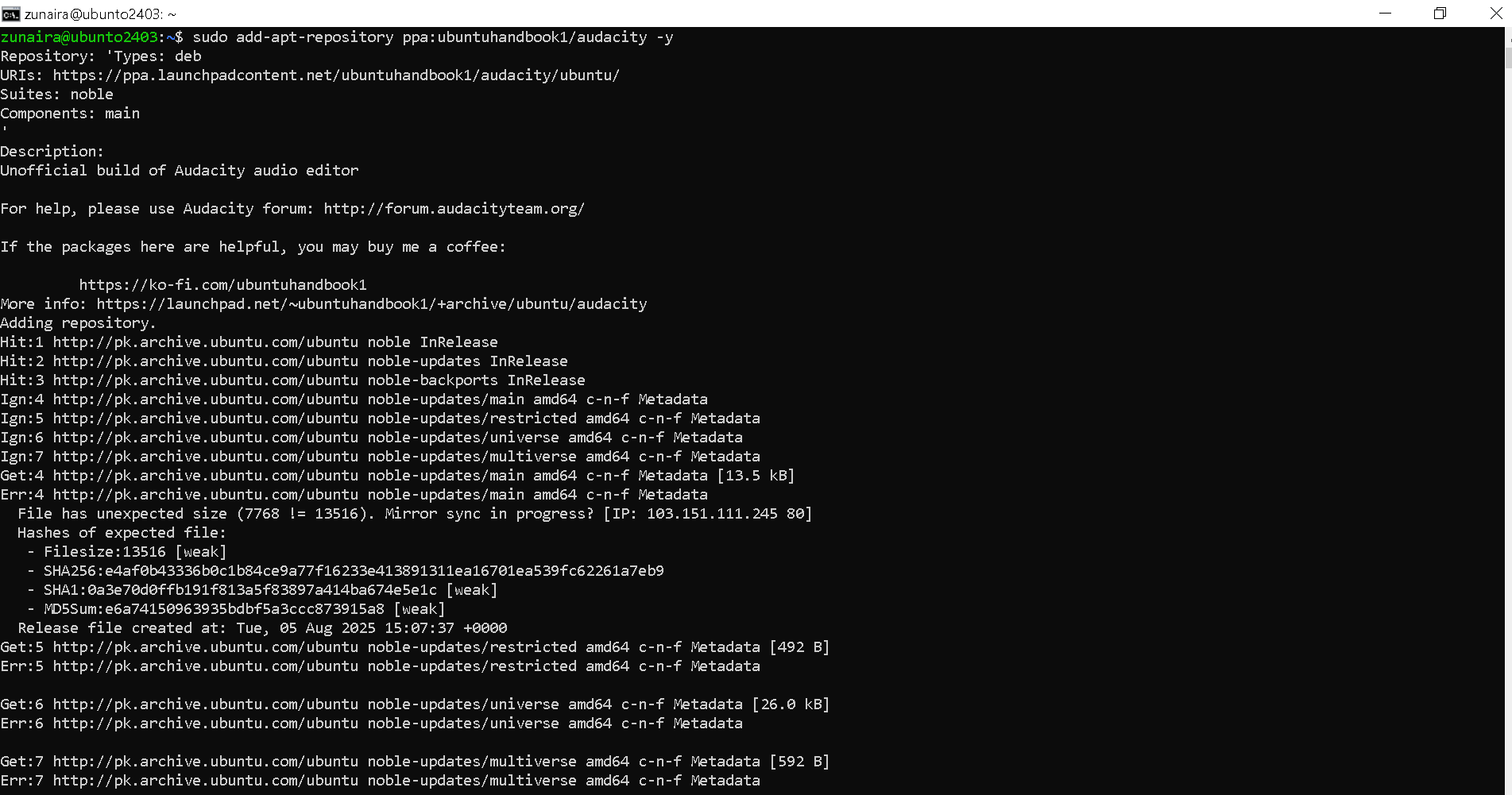
Step 14

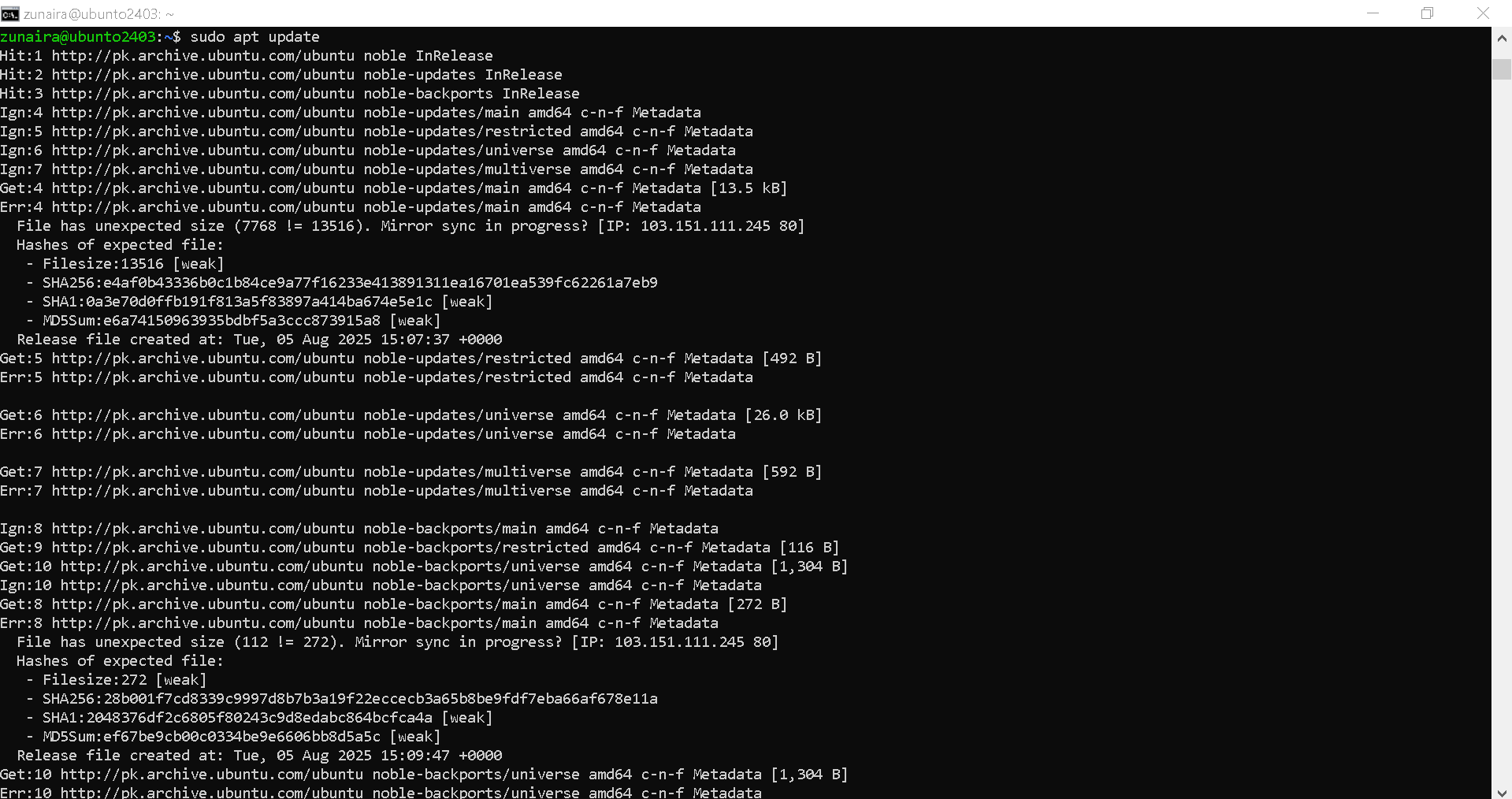


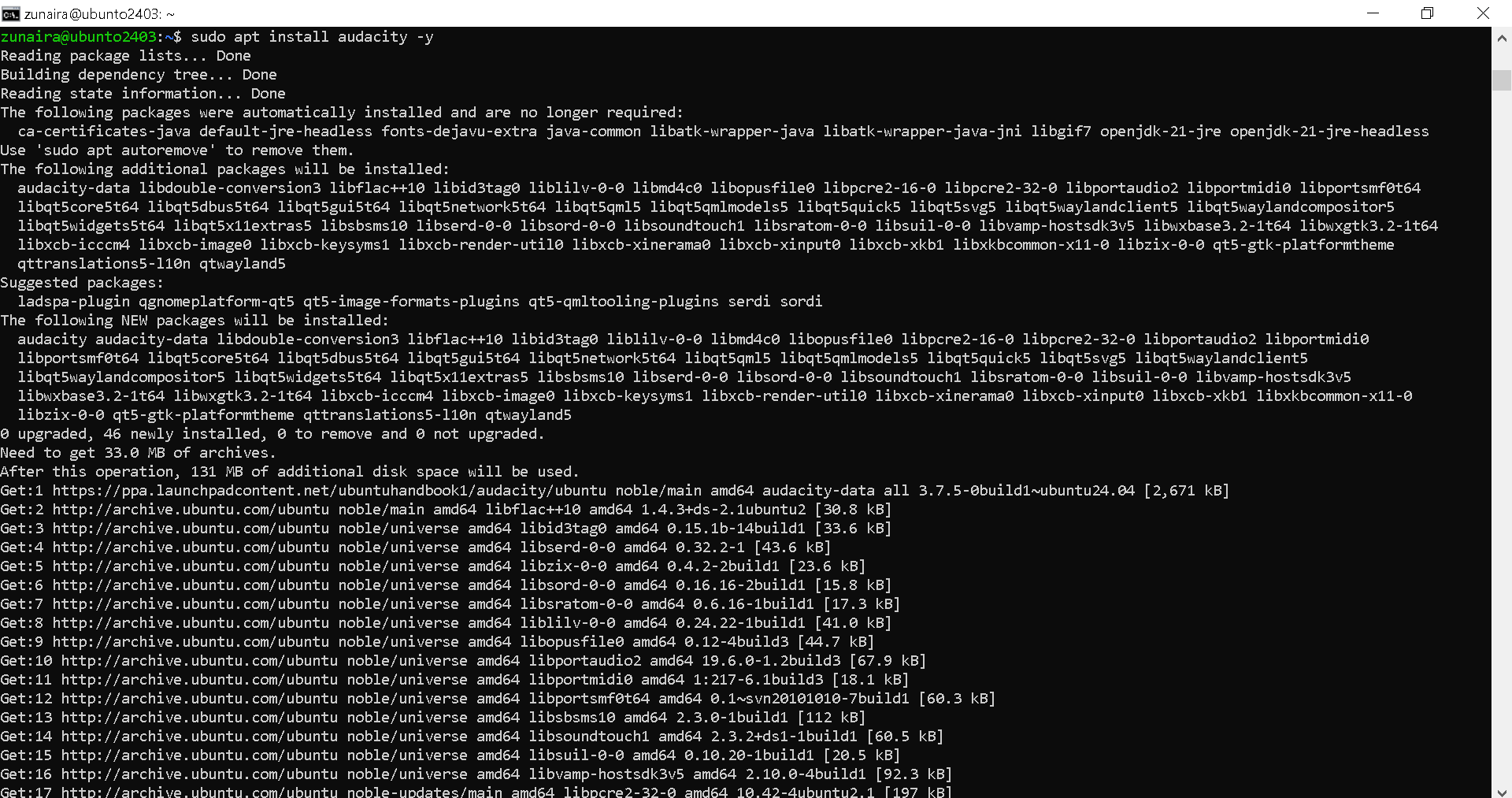


**Task 8 - Install applications via PPA (Audacity & OBS) and launch**

Step1



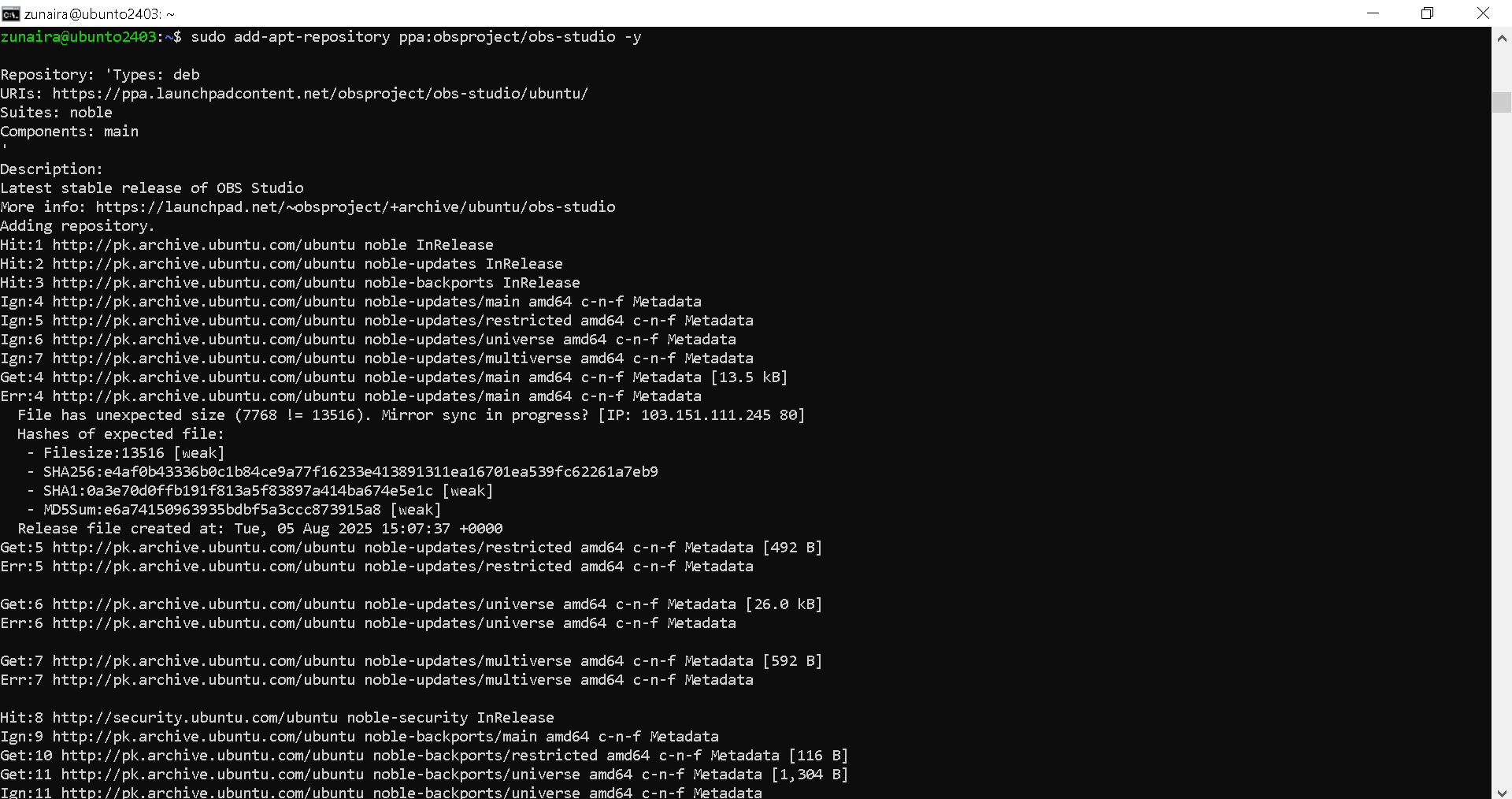


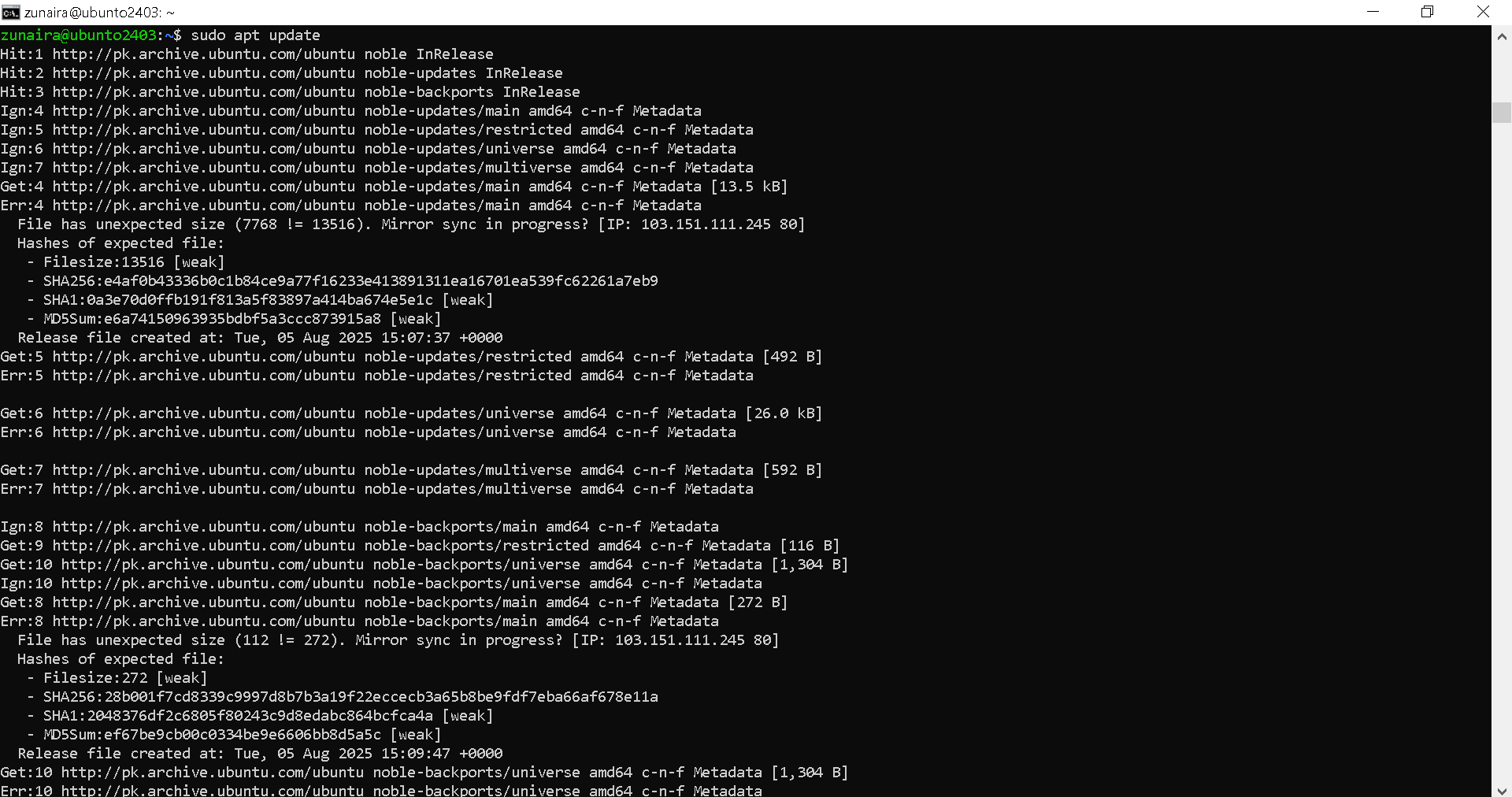


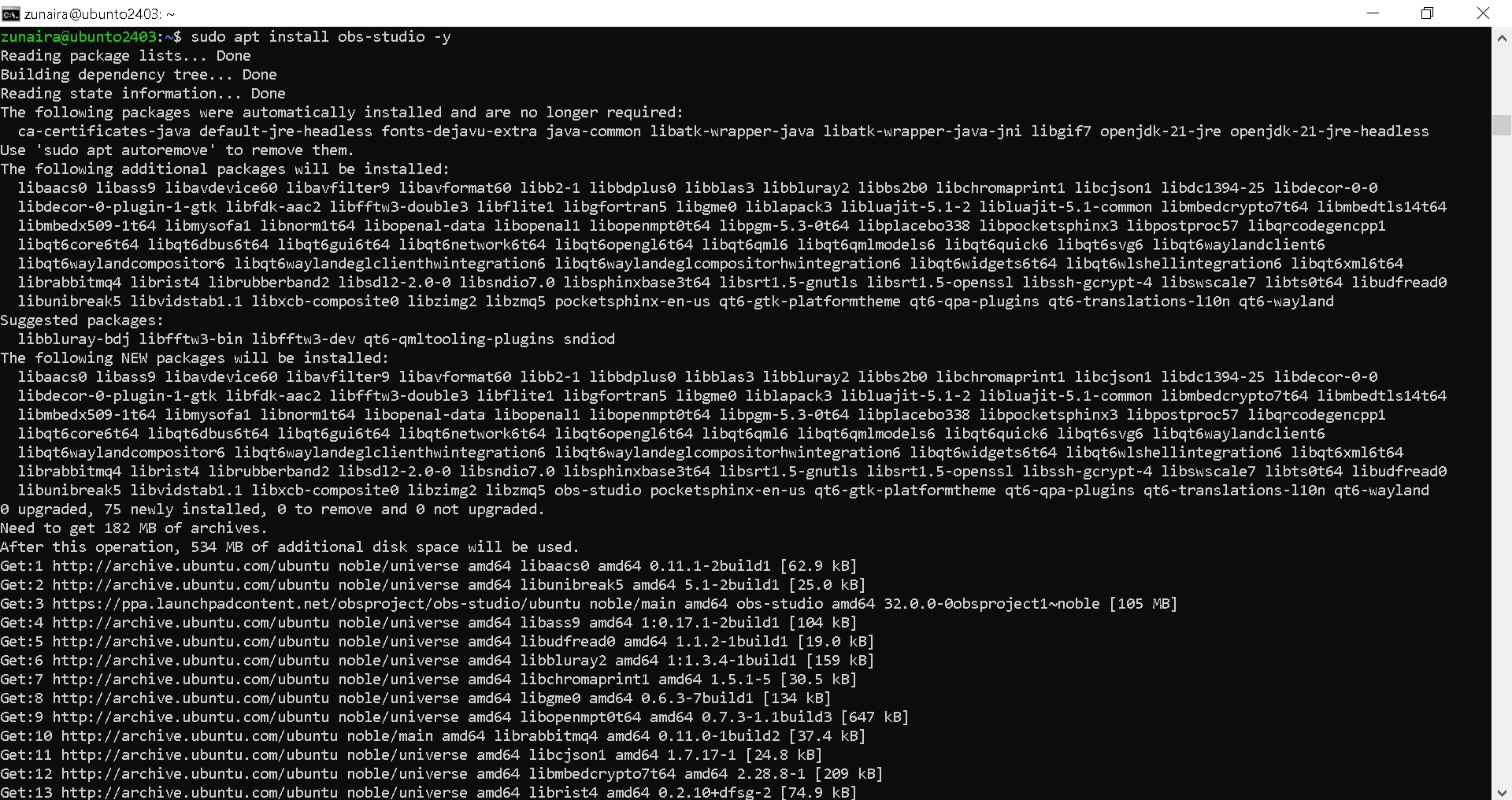
Step2



Step3

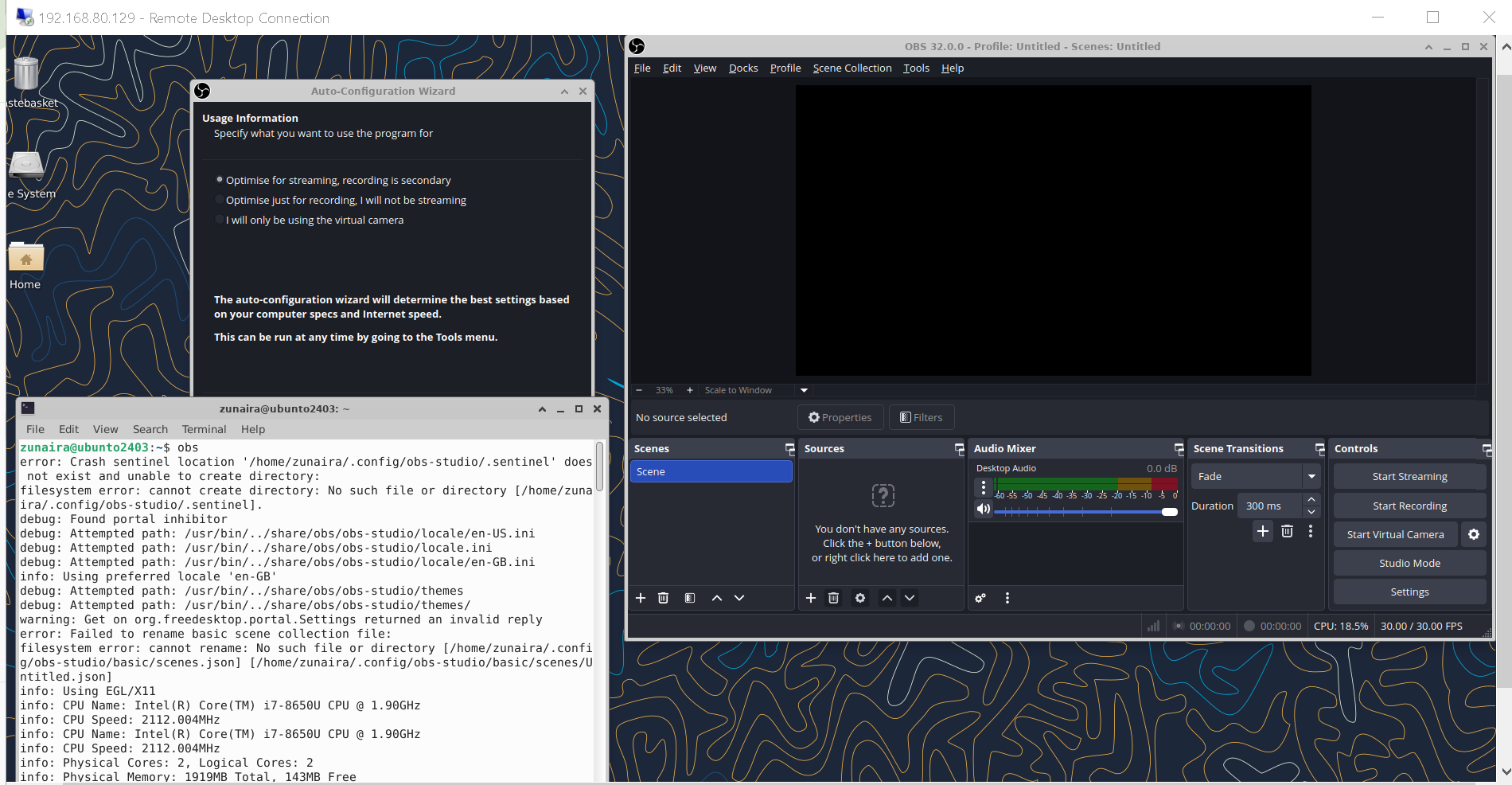






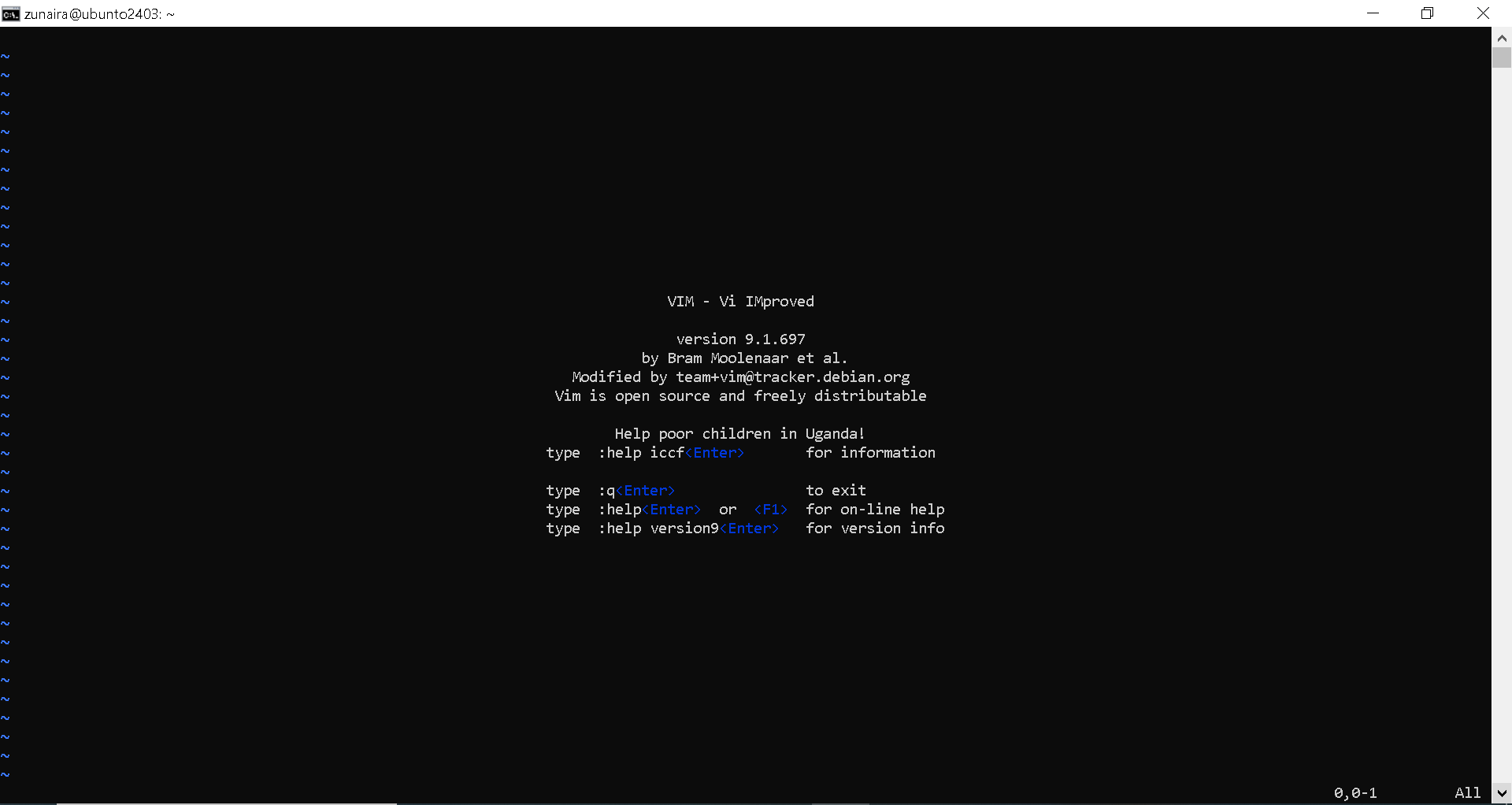
Step4



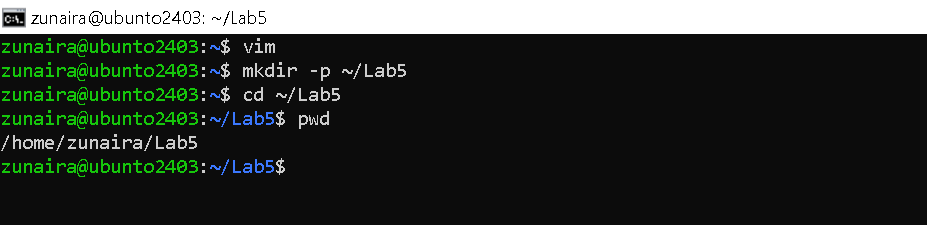


**Task 9 - Create a Kubernetes sample YAML using vim**

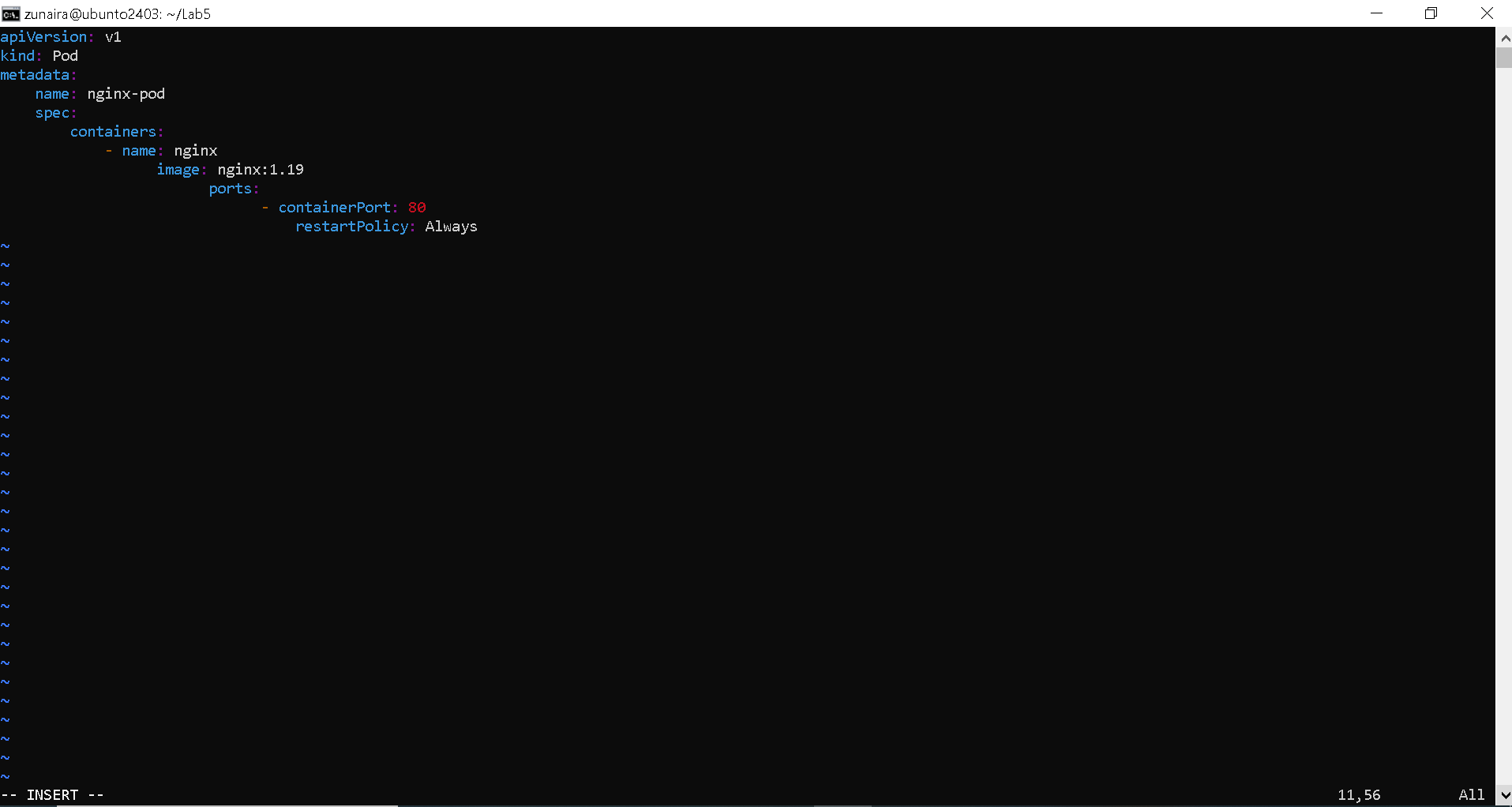
Step1



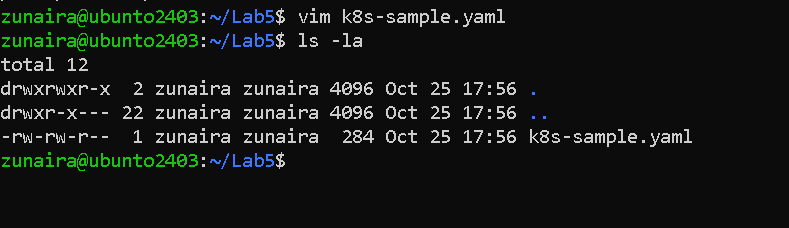
Step2



Step3

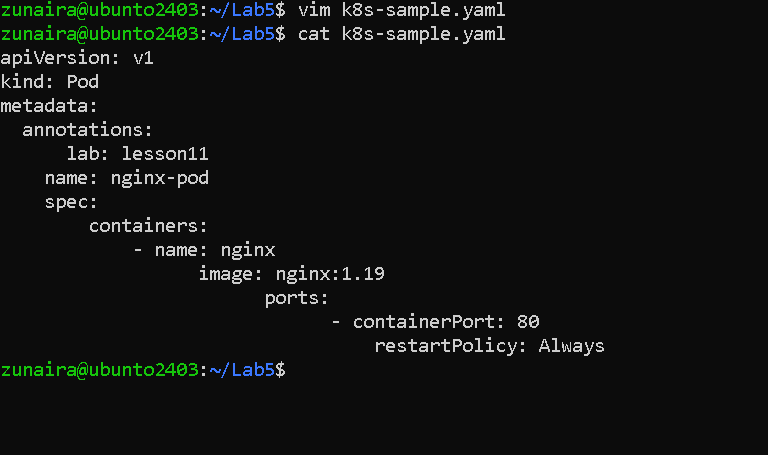


Step4

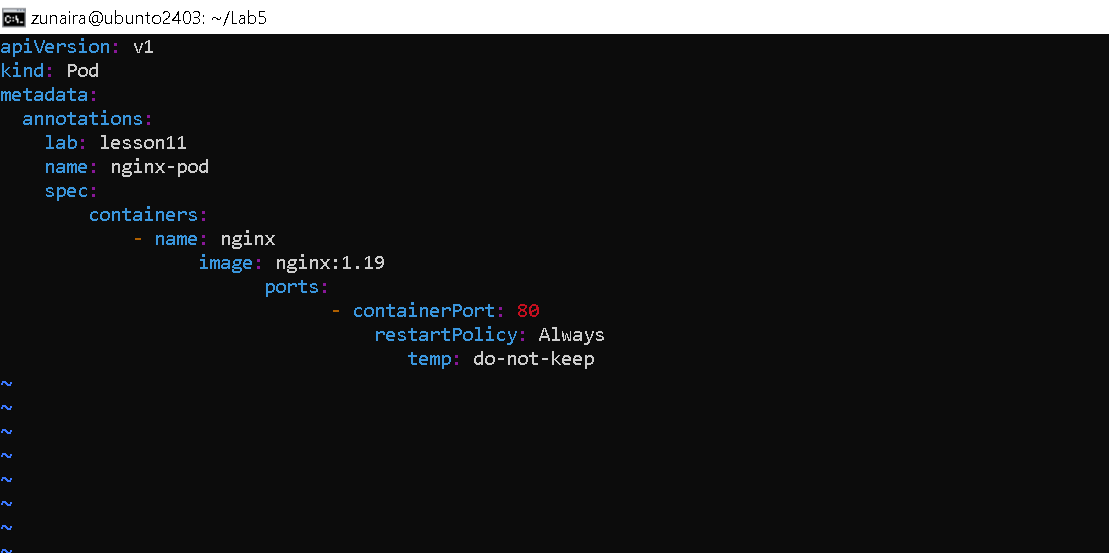


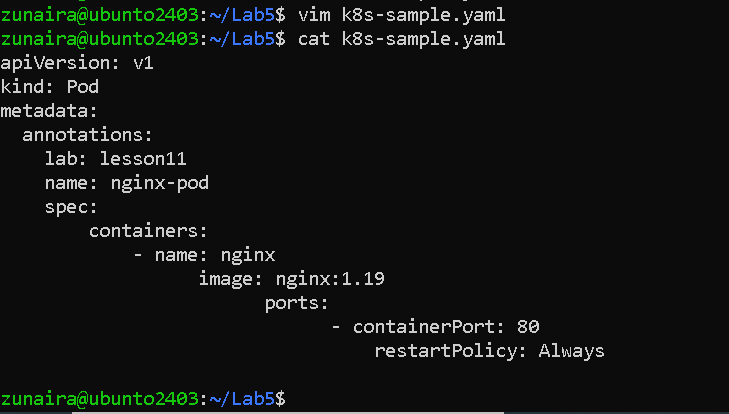
**Task 10 - Edit the Kubernetes YAML - add annotation, verify, then discard temporary change**

Step1&2



Step3

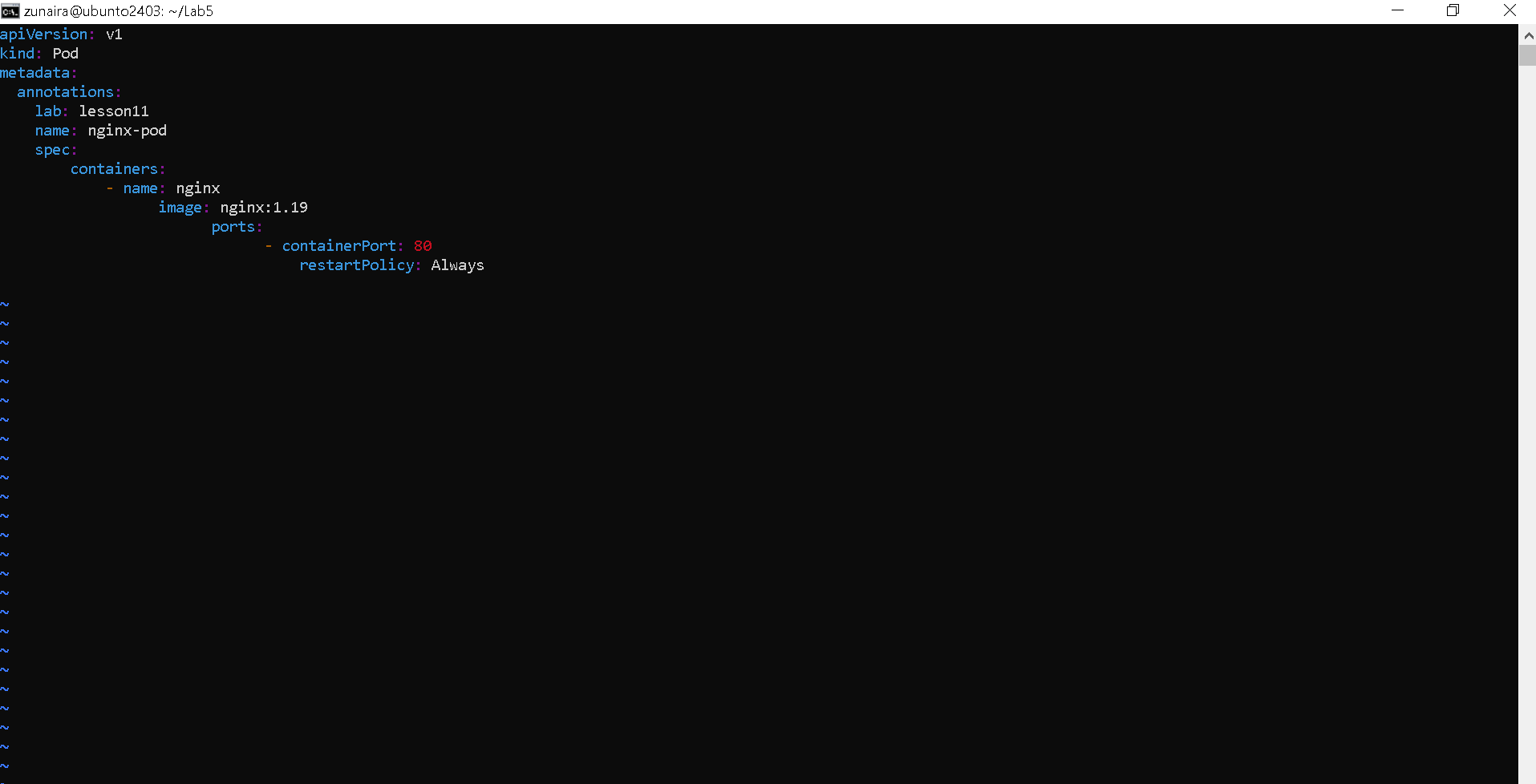




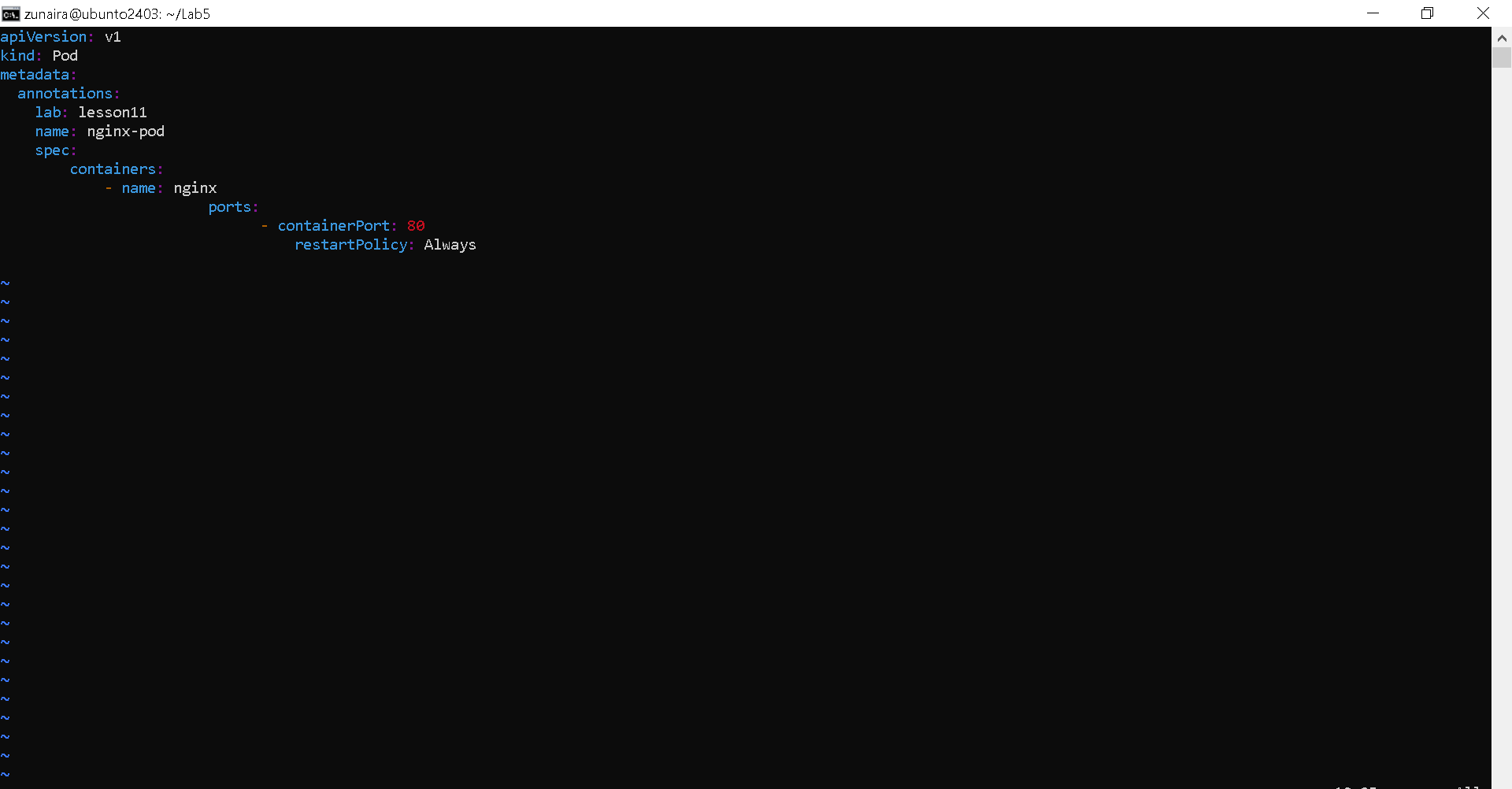
**Task 11 - Vim editing practice - delete, undo, numeric deletes, navigation**

Step1

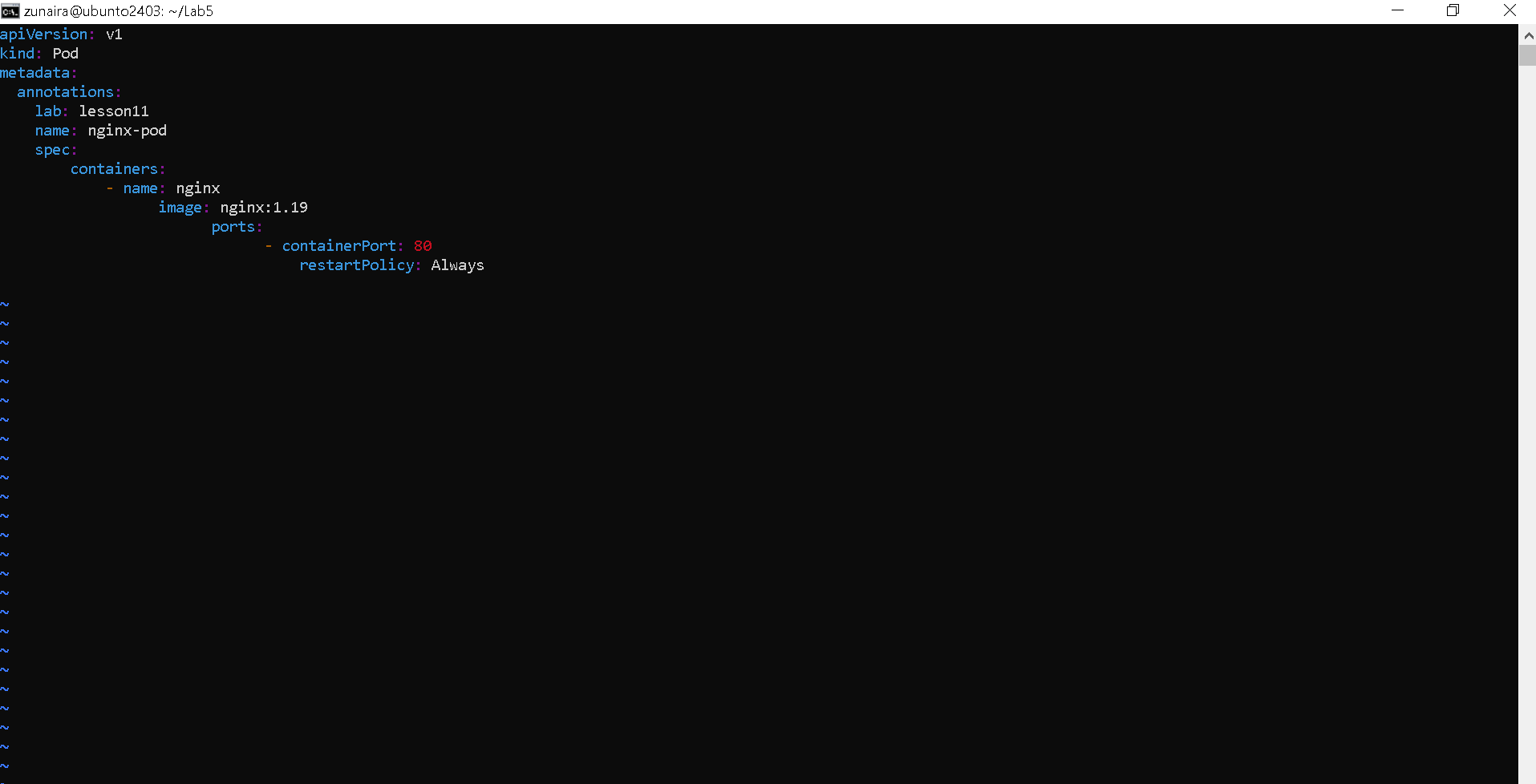
Before deletion



After deletion



Undo deletion



Step2

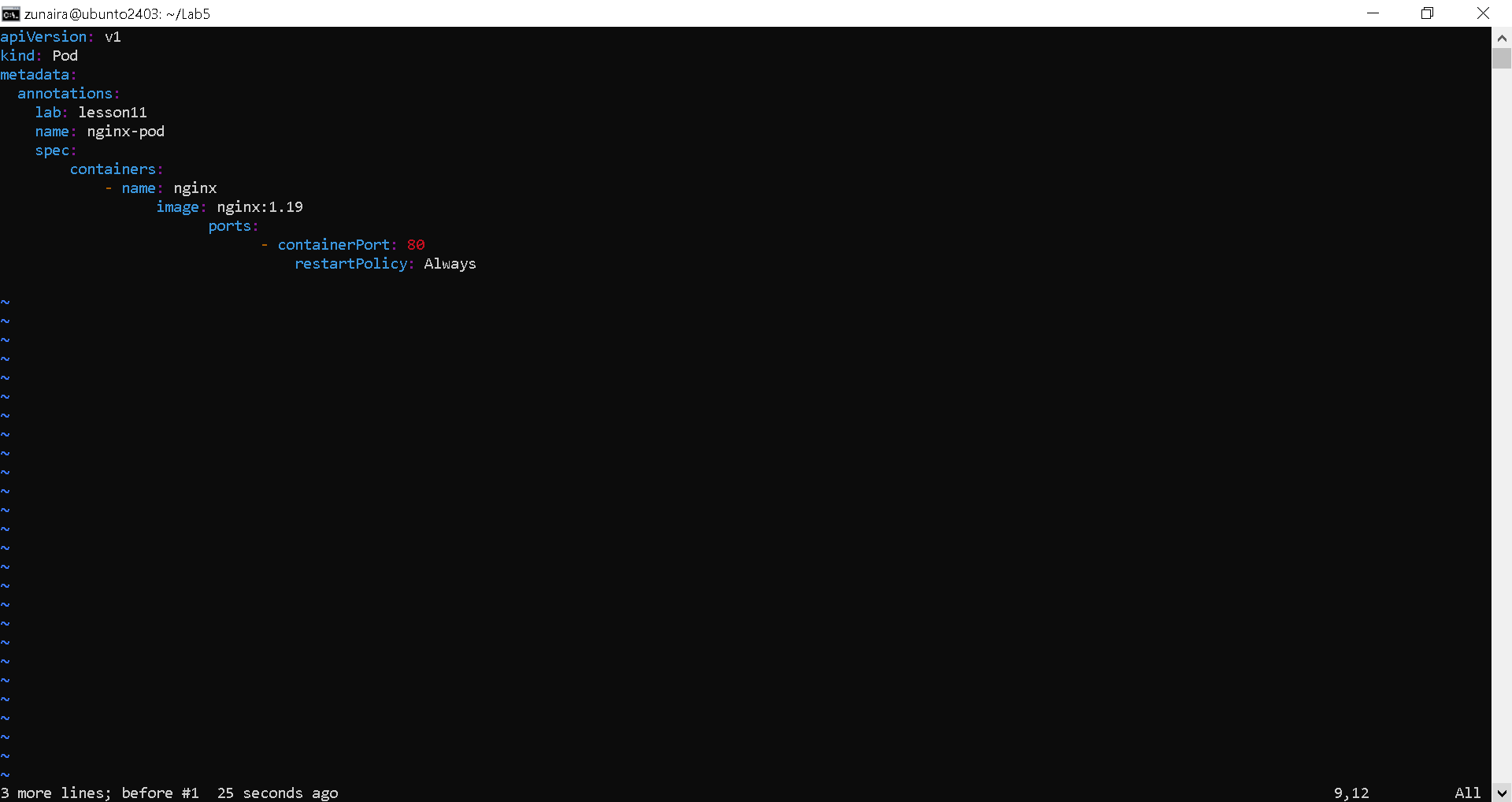


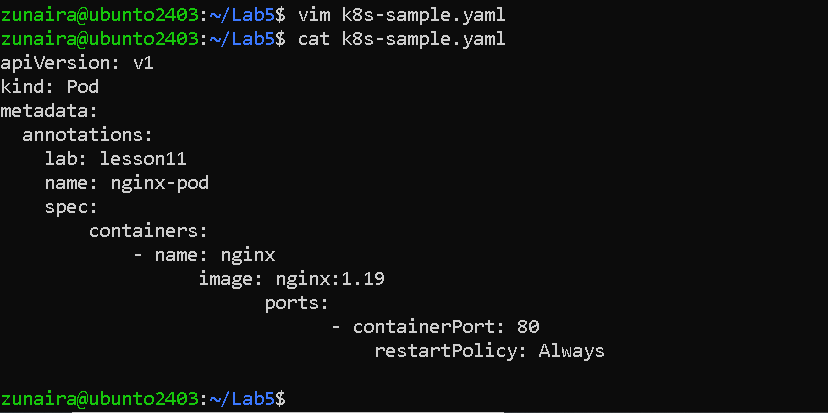
Step3

After deletion



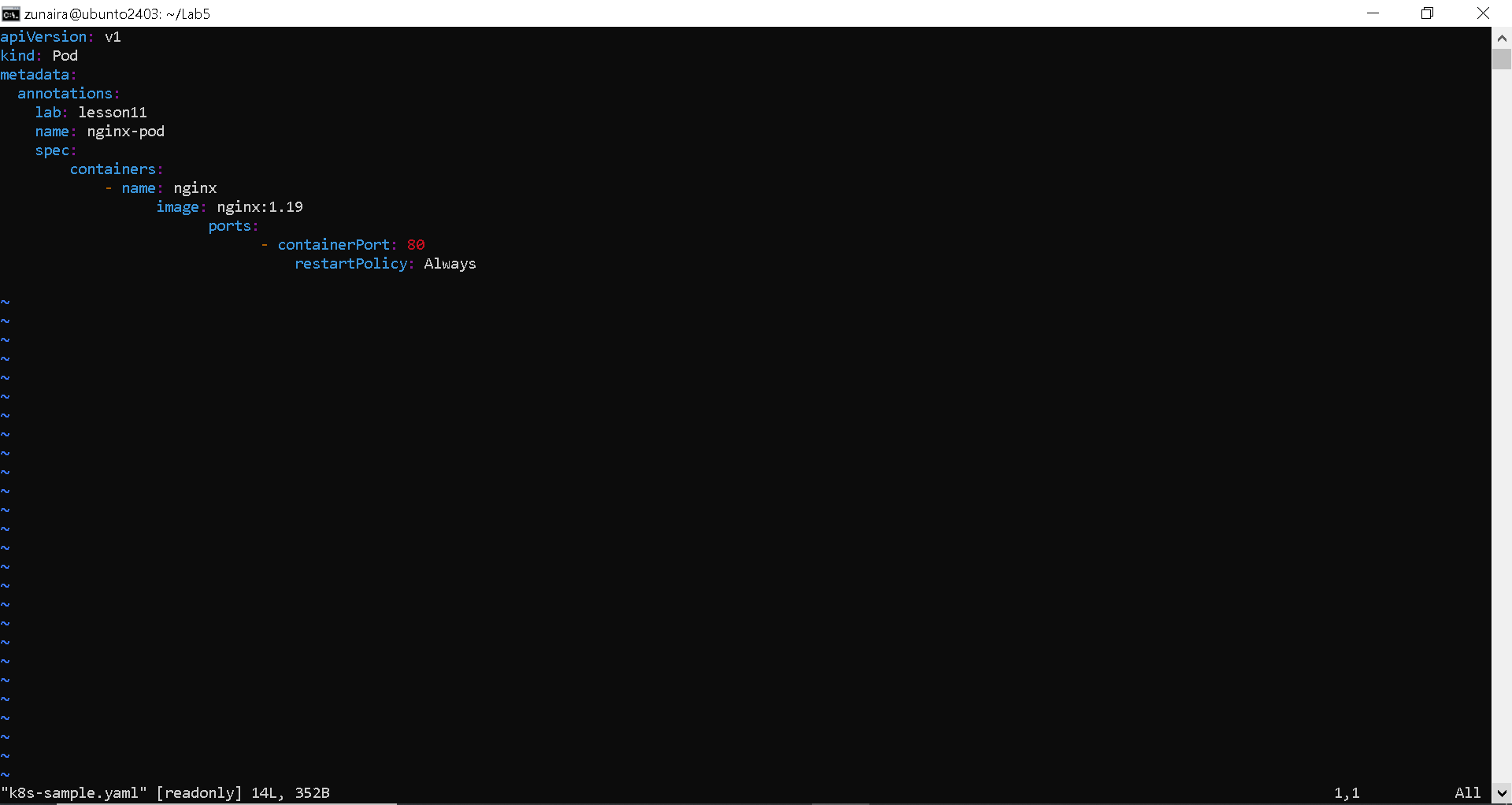
Undo



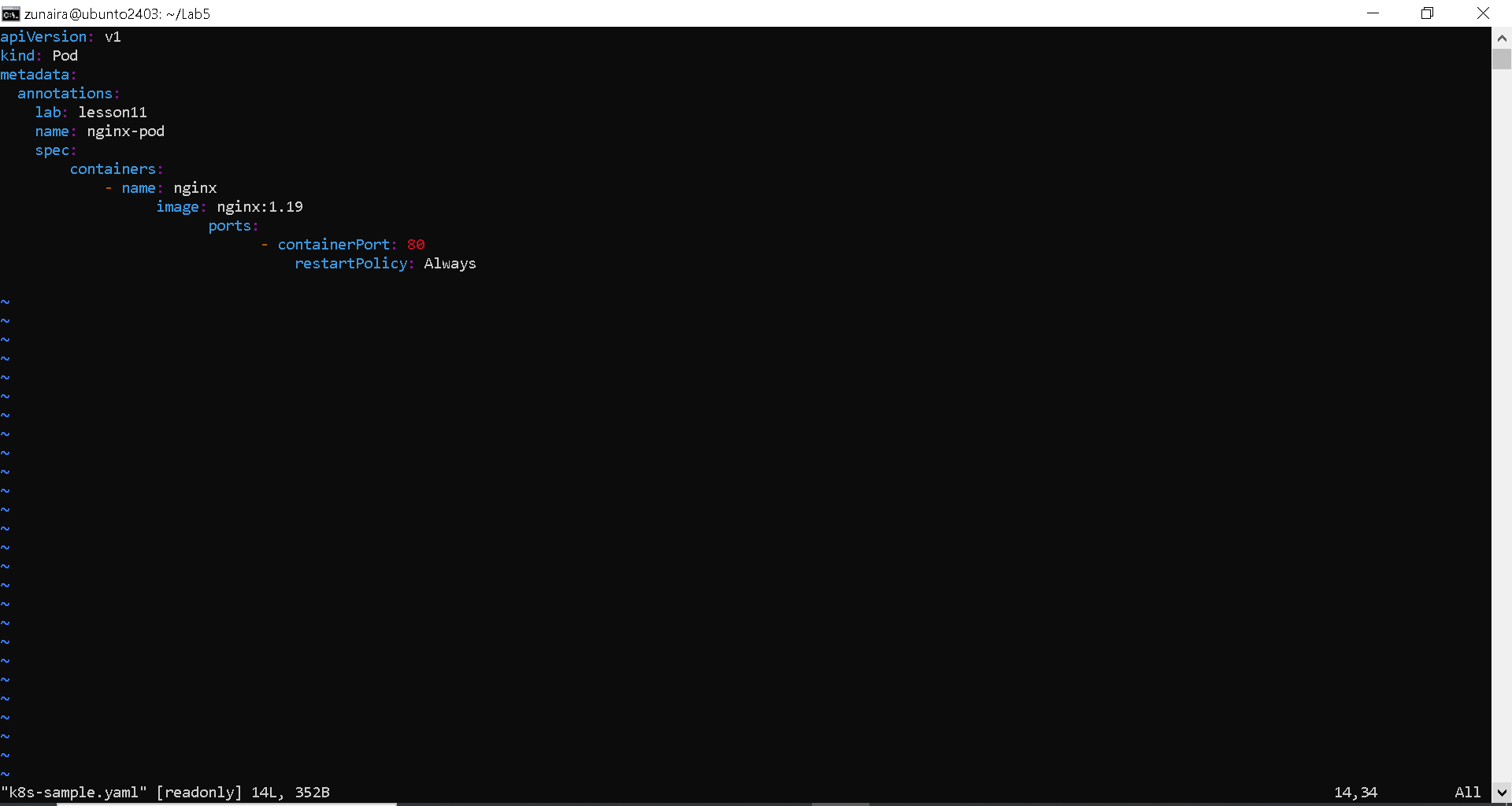


Step3

1G

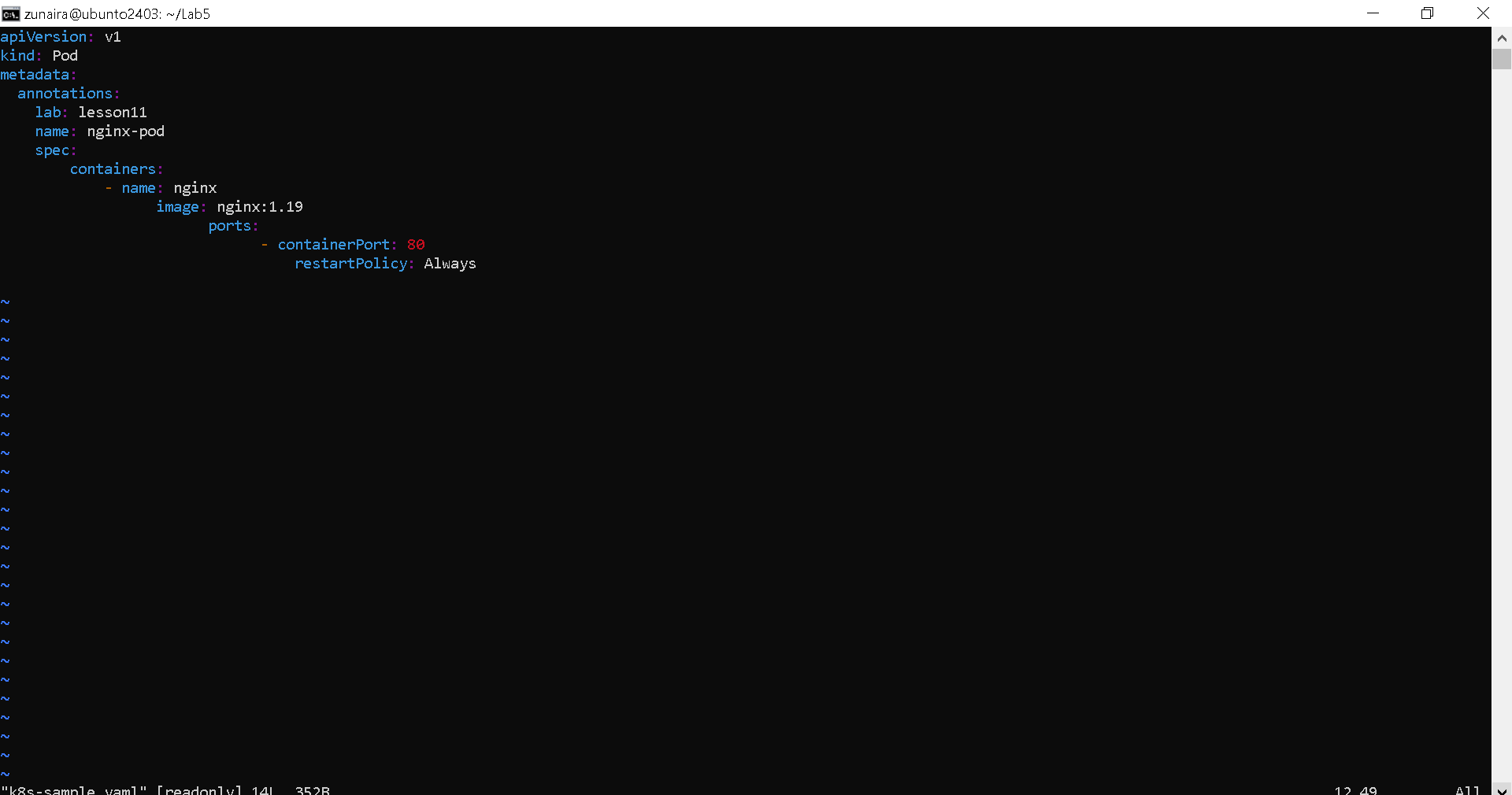


G



Step4

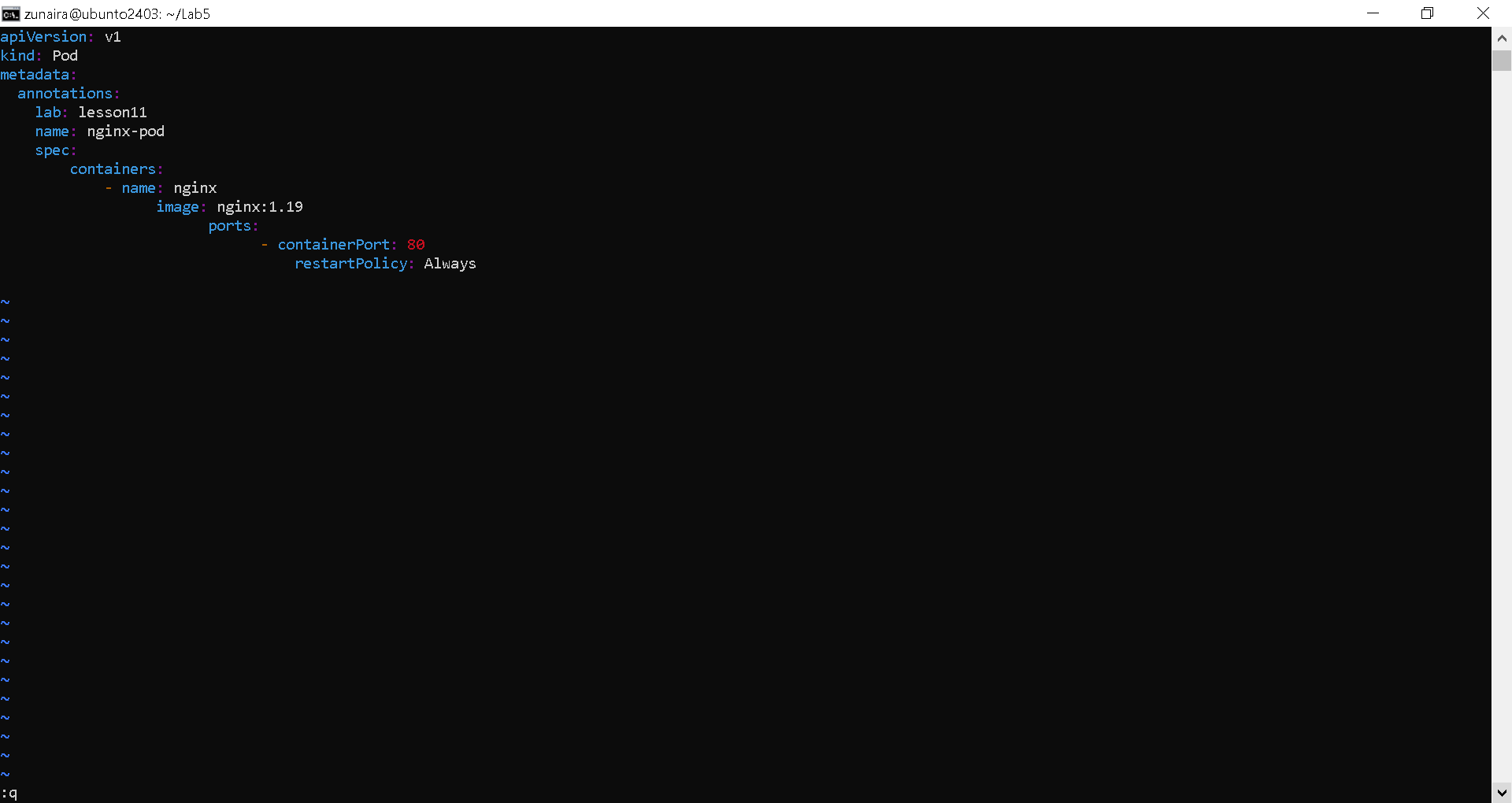
$

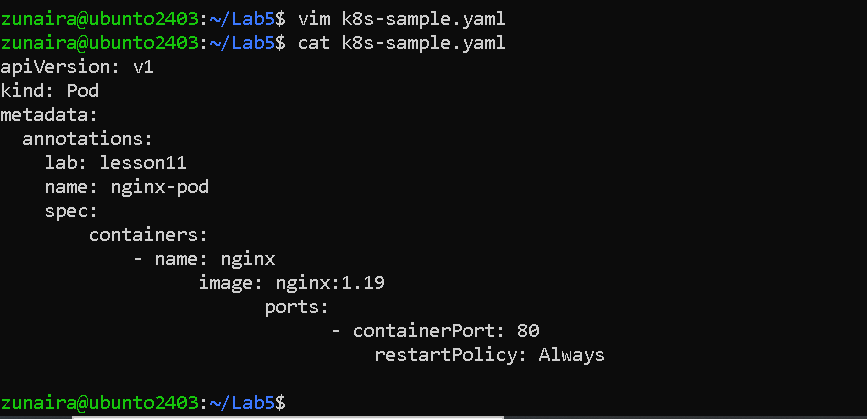


0



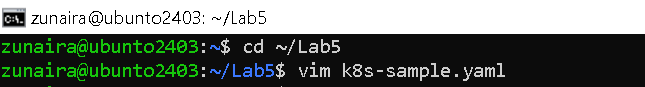
Step5





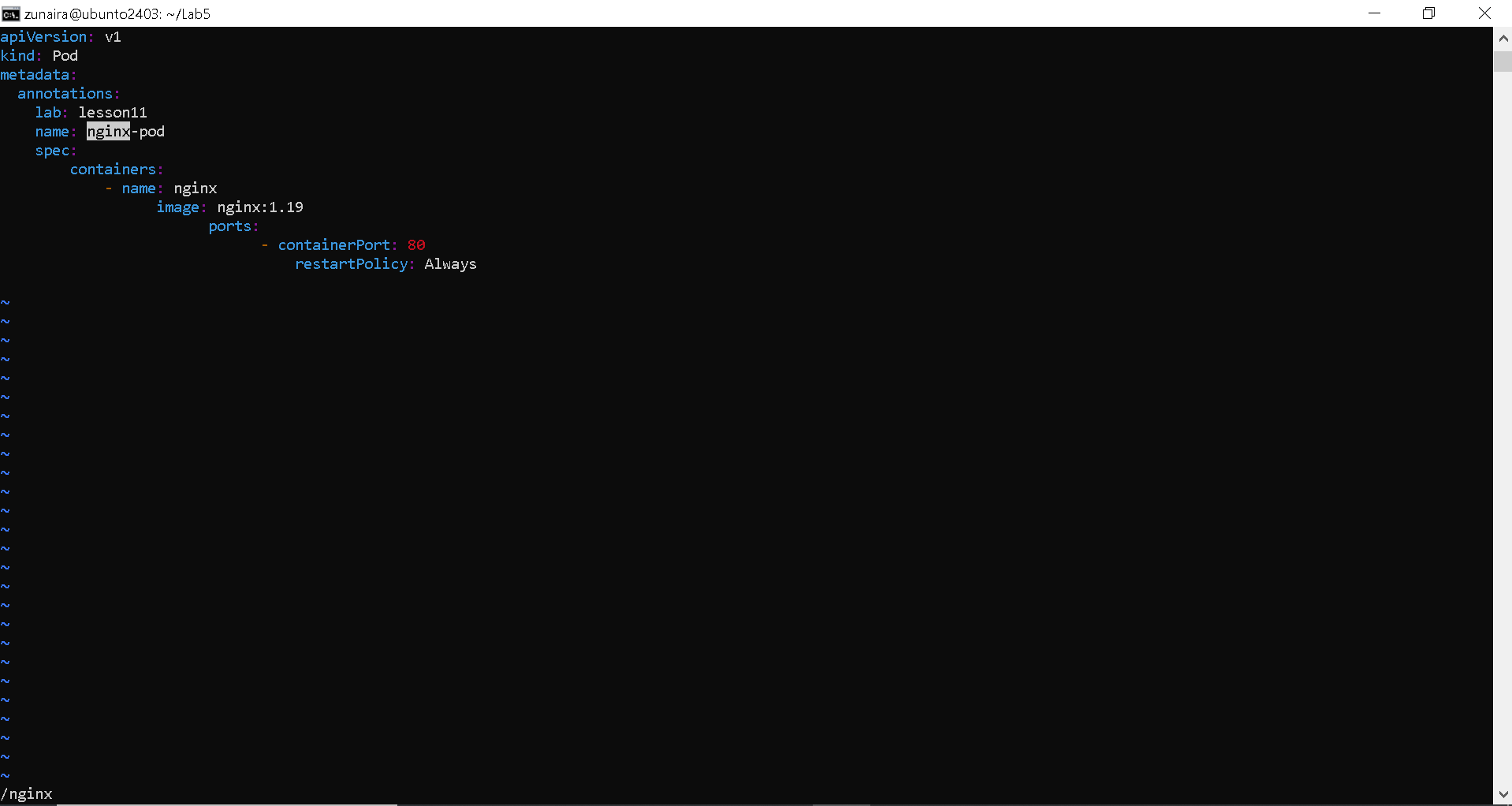
**Task 12 - Vim search, add matches, substitute, undo**

Step1



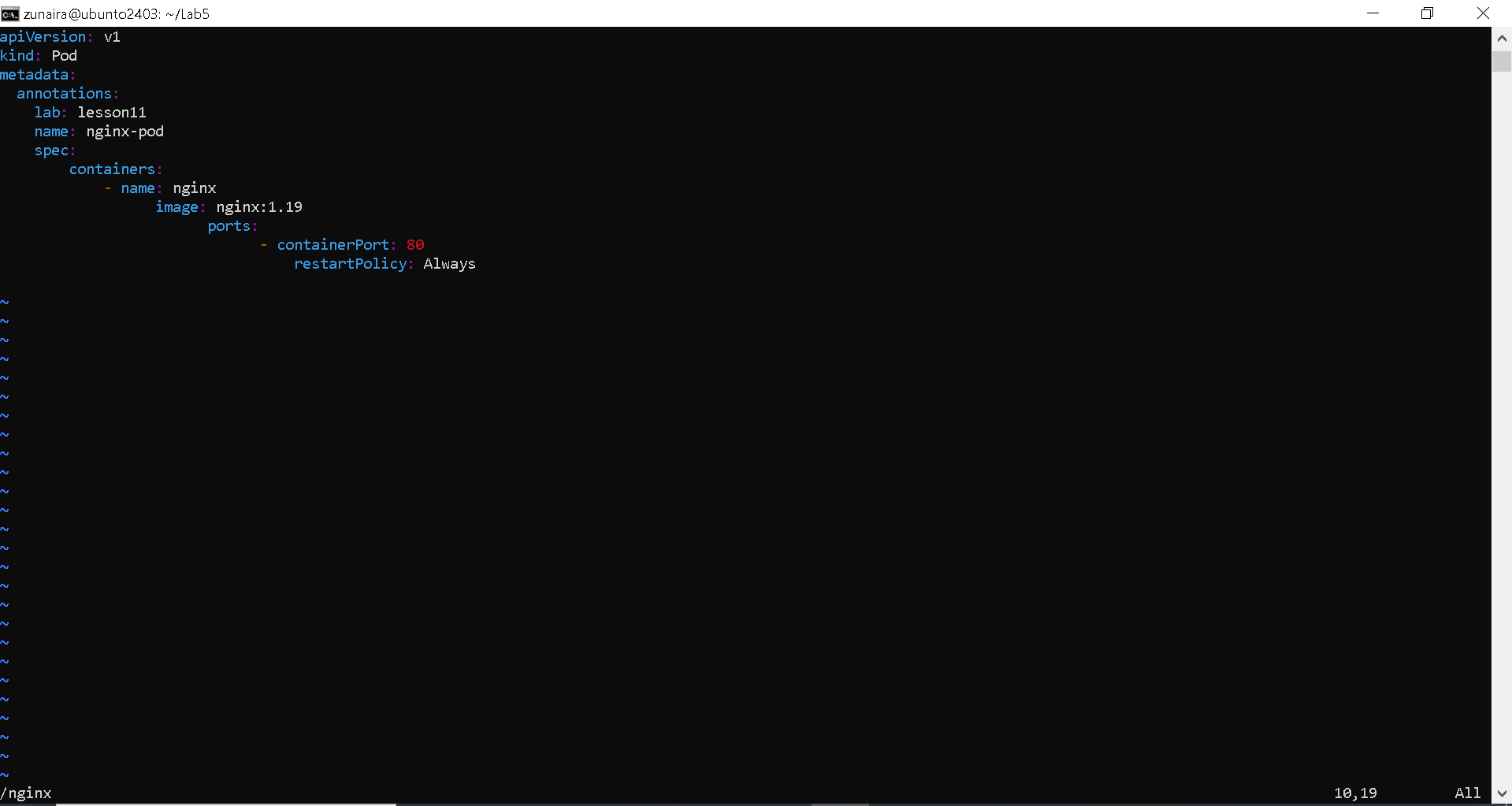
Step2

/nginx

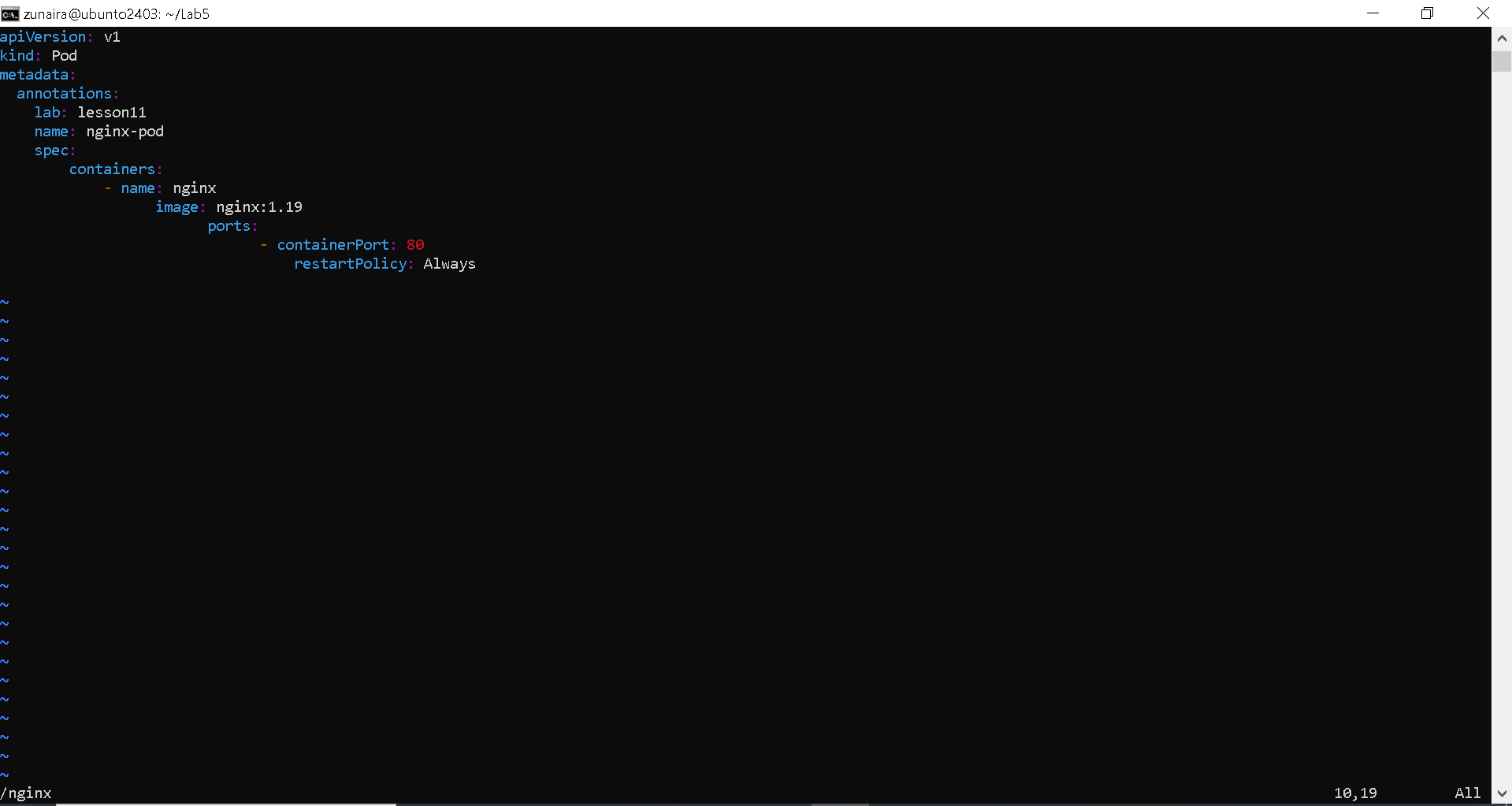


Step3

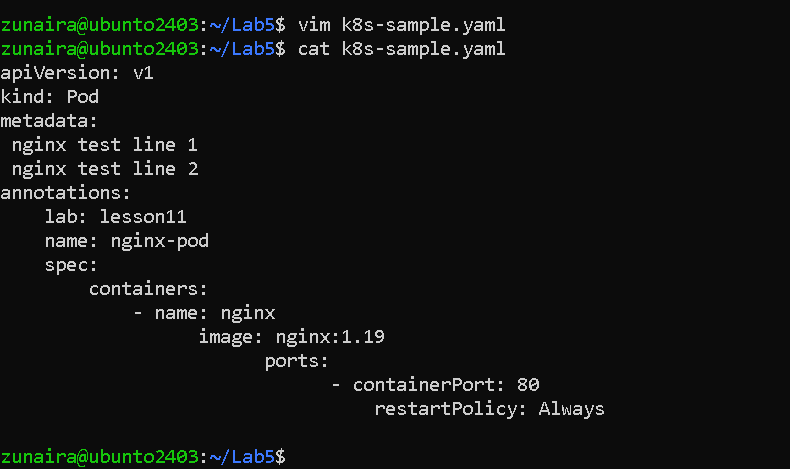
N



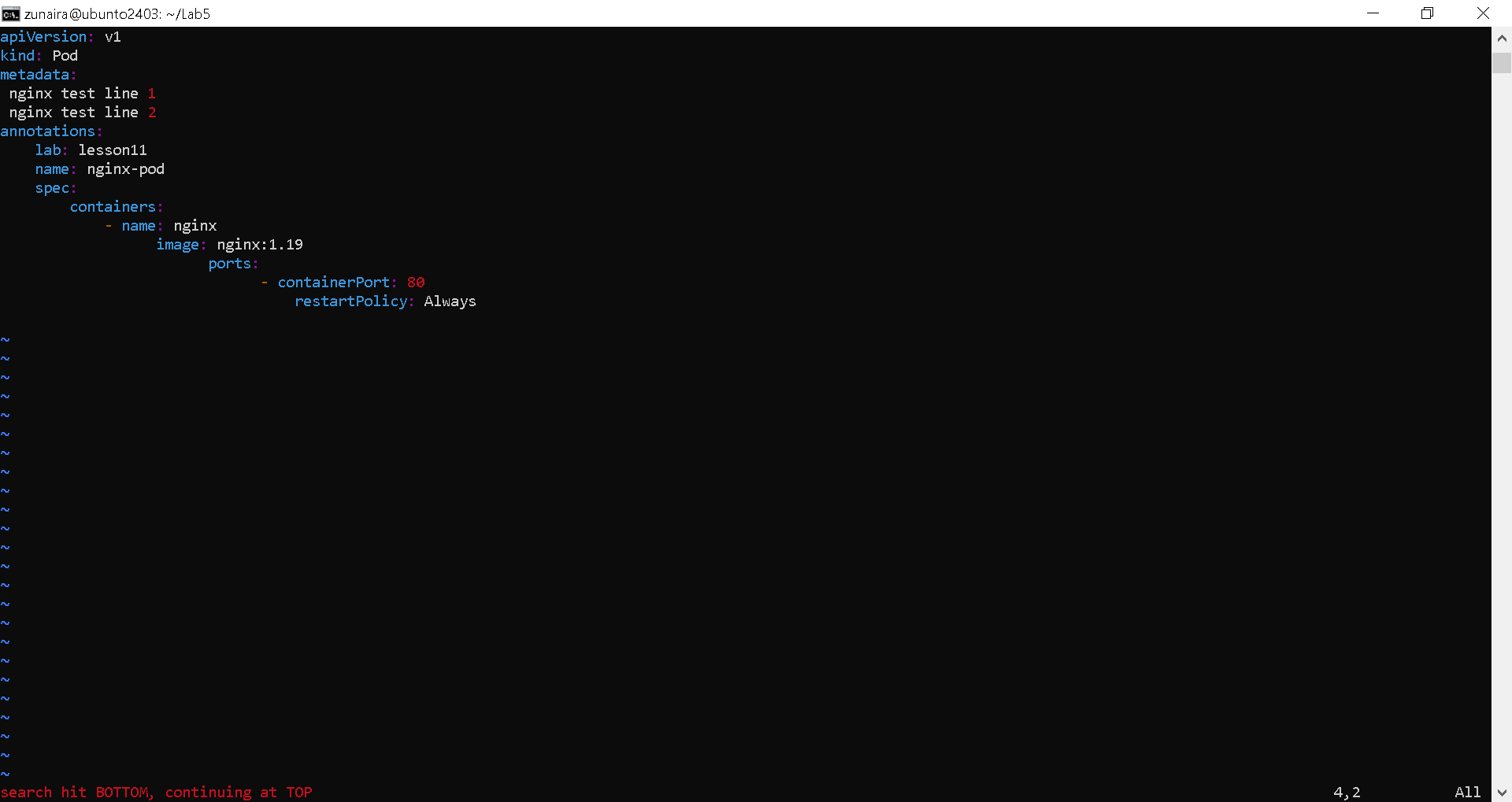
n



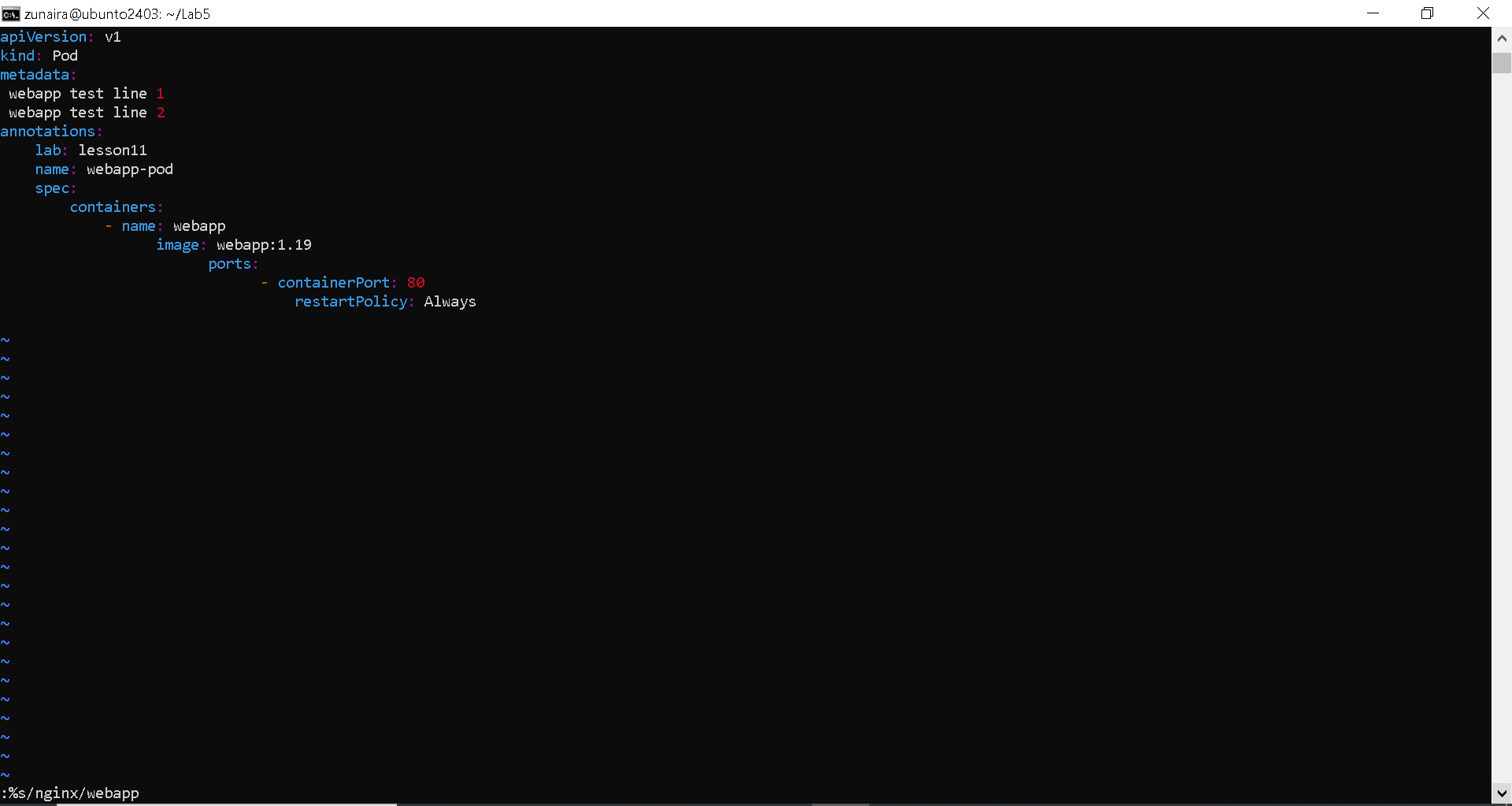
Step4



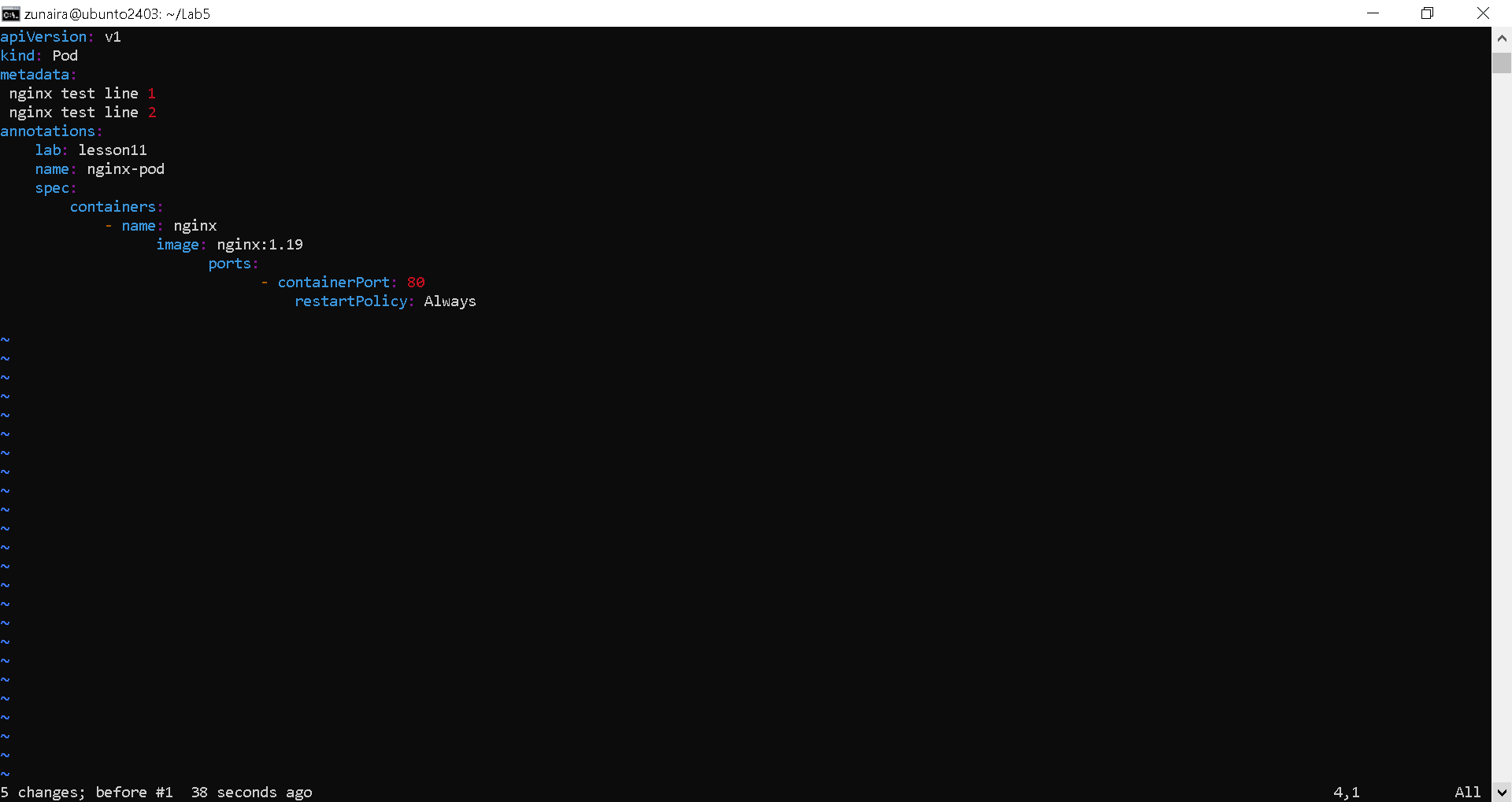
Step5



Step6



Step7



Step8

