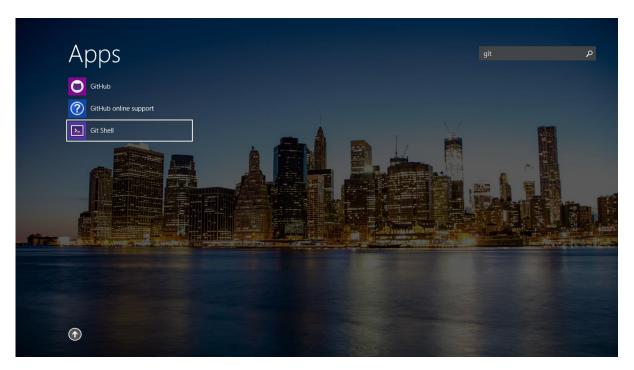
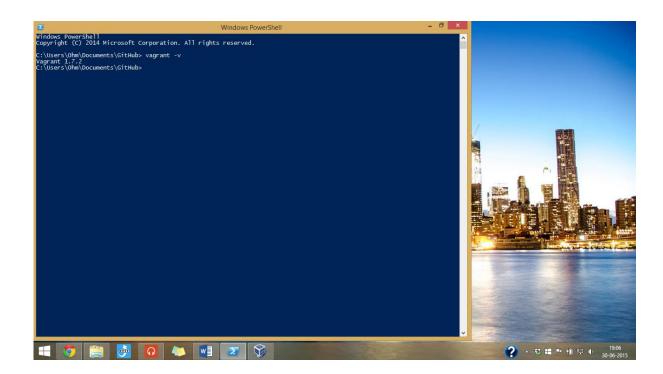
## SMART on FHIR Sandbox Setup

- 1. Go to <a href="http://docs.smarthealthit.org/sandbox/install/">http://docs.smarthealthit.org/sandbox/install/</a> and from there move forward to the GitHub repository.
- 2. Refer the file README.md, for all instructions.
- 3. <u>PRE-REQUISITES:</u> As mentioned in the README file, you will need to install the following
  - a. <u>Virtual Box</u> A tool to host virtual machines with your desired guest OS. Version 4.3.20 & up verified and works. Download as per your OS/platform.
  - b. <u>Vagrant</u> Vagrant provides easy to configure, reproducible, and portable work environments built on top of industry-standard technology and controlled by a single consistent workflow to help maximize the productivity and flexibility of you and your team. Version 1.7.1 & up verified and works. Download as per your OS/platform.
  - c. <u>Ansible</u> Windows users do not need to install this, since it is not supported.

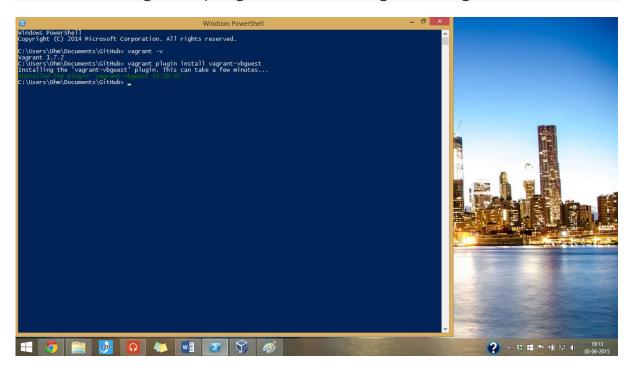
## <u>Installation steps with screenshots (For Windows users)</u>

- 1. Install Virtual Box and launch it.
- 2. Open GitShell and execute the following commands in it.



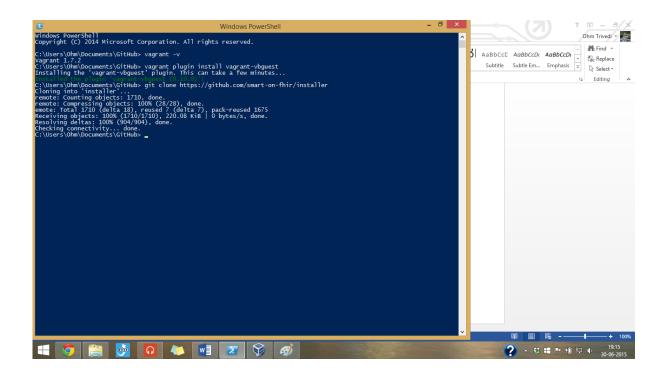


3. Install Vagrant plugin **vagrant-vbguest**: vagrant plugin install vagrant-vbguest

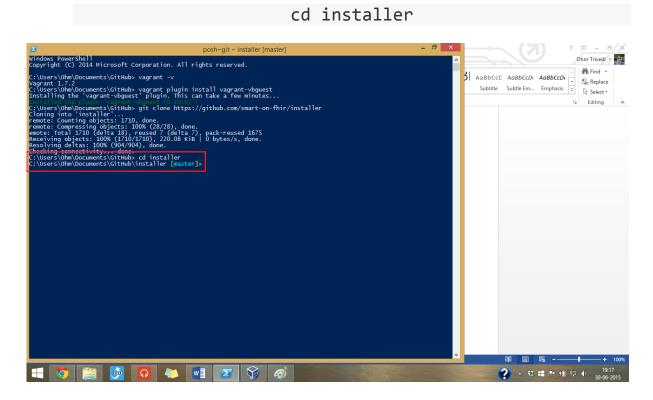


4. Clone the **installer** github repository (<u>link</u>):

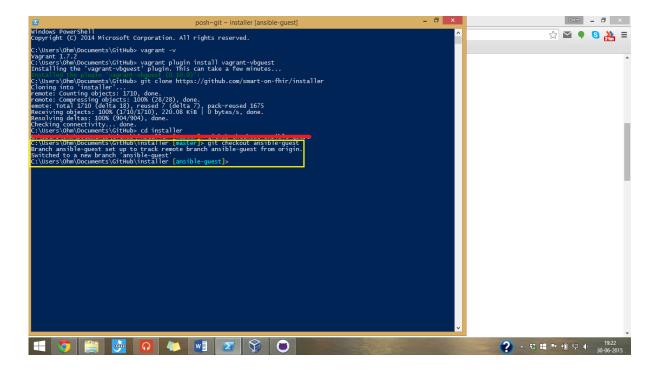
git clone https://github.com/smart-on-fhir/installer



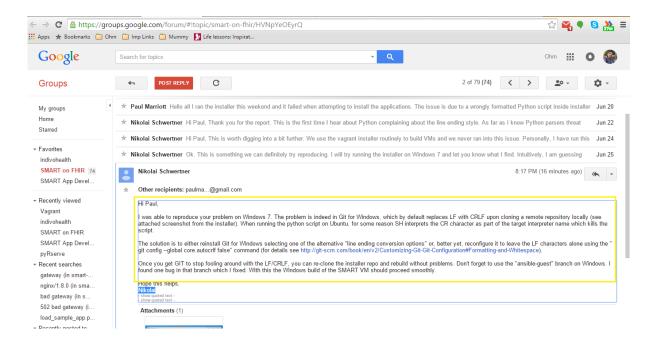
5. Change current directory to where **installer** is cloned:



6. Change repository's branch from **master** to **ansible-guest**: git checkout ansible-guest

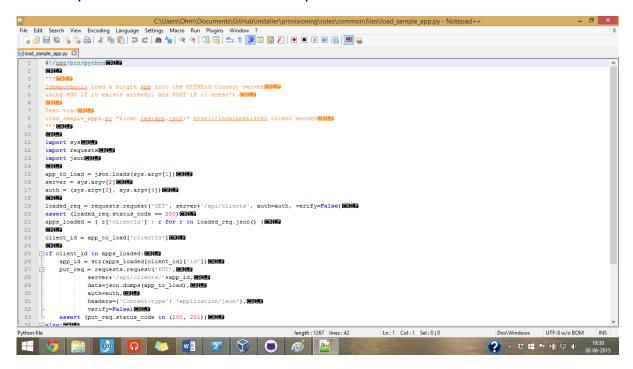


7. There is a bug here (it's related to an automatic action by GitHub Windows client) for which we have a quick fix (steps 8, 9 and 10). You can either go that way **OR** reinstall Git Windows's client using its installer as instructed by Nikolai <a href="here">here</a>. Refer to his 4<sup>th</sup> response. Skip steps 8, 9 and 10 if you choose to go the latter way.

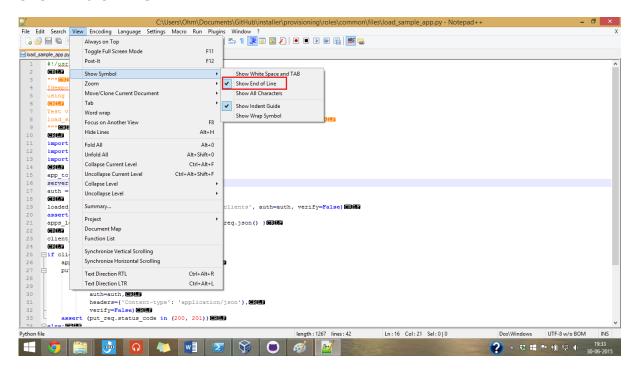


8. Open the **installer** github repository in file explorer and open the file **load\_sample\_app.py**. Inside the **installer** directory, it is located here - ~\GitHub\installer\provisioning\roles\common\files\load\_sample\_app.py

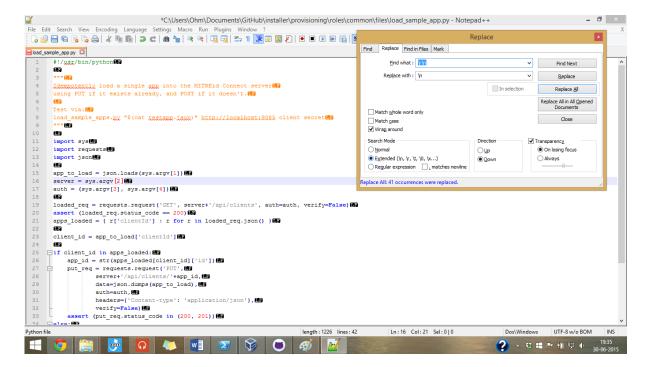
Open it with an editor like Notepad++ since we need to edit it.



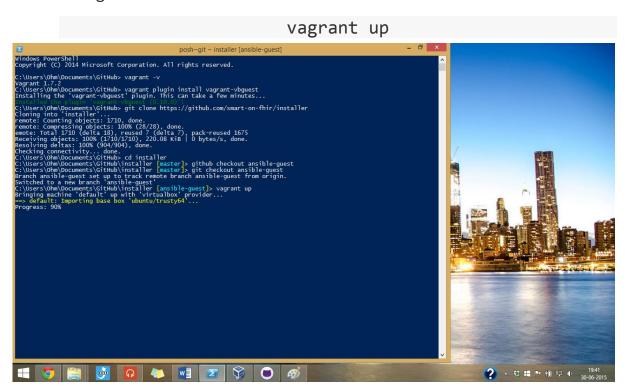
**NOTE:** As seen in screenshot, if you don't see these two characters **CR LF** at the end of every line, then under **View** menu, go to **Show Symbol** and then check **Show End of Line**.



- 9. Replace all **CR LF** with only **LF**. <u>CR corresponds to \r and LF corresponds</u> to \n. Fill in the following entries in **Replace** dialog box
  - a. Find what -> \r\n
  - b. Replace with -> \n
  - c. Ensure in **Search Mode**, **Extended** mode is selected.



- 10. Save the file and close.
- 11. Bring the server online:



12. The last step takes a few minutes for completion. During the execution, there are some warnings (shown in RED color), you can ignore them.

Upon completion, you should see something like this:

```
posh-git-installer(ansible-guest)

default: TASK: [Idap | configure Idap server certificate]

default: Askipping: [Iocalhoxt]

default: ASK: [Idap | generate private key for Idap server]

default: TASK: [Idap | generate private key for Idap server]

default: TASK: [Idap | generate Idap server certificate]

default: TASK: [Idap | generate Idap server certificate]

default: TASK: [Idap | copy Idap config files]

default: TASK: [Idap | configure Idap.disable.auth.Idif)

default: TASK: [Idap | dap.depented Idap.disable.auth.Idif)

default: TASK: [Idap | dap.depented Idap.disable.auth.Idif)

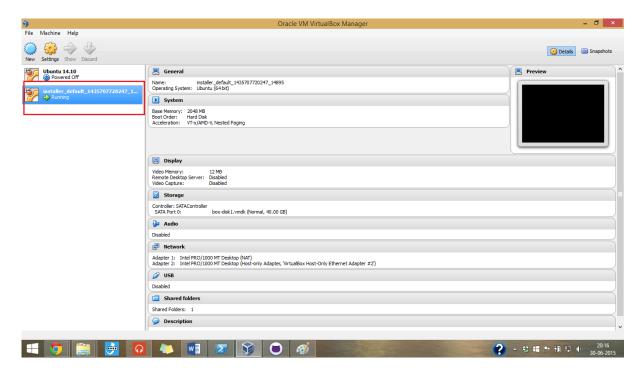
default: TASK: [Idap | dap.depented Idap.disable.auth.Idif)

default: TASK: [Idap | configure Idap.disable.auth.Idif)

default: TASK: [Idap | dap.depented Idap.disable.auth.Idif)

default: TASK: [Idap | lagorit Idap.depented Idap.
```

13. In Virtual Box, you should have a new VM created and running:



14. Open the following links:

http://localhost:9080 for a FHIR API server

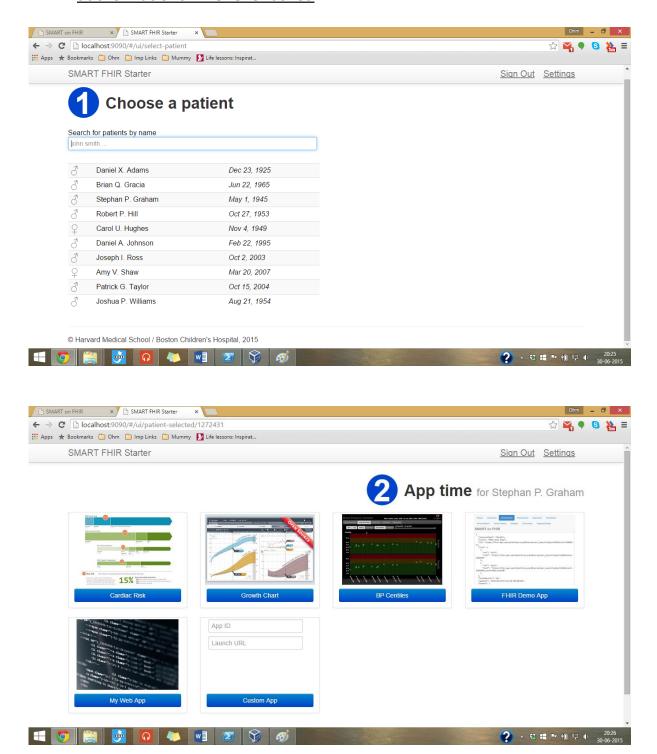


http://localhost:9090 for a SMART apps server





- 15. At **SMART apps server**, you can login using two demo accounts (username/password): **demo/demo** and **admin/password**.
- 16. After logging in, you should get the option of select any one of the patients, out of 10 patients already loaded as samples. And then you can try out any of the apps for that specific patient. On way you need to give authorizations whenever asked.





17. You can poke around the VM by:

## vagrant ssh

18. When you are done working, you can shut down the VM with:

## vagrant halt

