

VCloud setup LAB

All screenshots, must have your username at command prompt and screenshot should be legible. Snipping tool is advised for the screen shots, no full page screenshot.
For LAB REPORT, The screenshots should be pasted in Word Document in order of the lab questions and submitted in Blackboard as a <u>single document</u> only. Plagiarism is awarded zero.
Refer to course details posted in BB for more info on Lab report and screenshots.
Do NOT login as root or user with UID=0 to do the lab, use sudo ONLY when required.
Do not use <u>changeme</u> username to do the lab, the lab(s) MUST be done using your own username as specified in PART-B of LAB-01
Strictly NO screenshots with full screen of terminal or desktop or partly taken screenshots
It is highly required to following naming conventions and instructions and it would affect evaluation.

IN-CLASS Activity: Q1 to Q18

PART-A: CREATE vApp in VCloud (VCloud link is available in Blackboard)

VApp Naming: Your VApp name should be named with your SECTION-FIRSTNAME followed by last four digits of your Humber Number that starts with n. (for example, John Smith with humber number n01234567 of Section RNA, the VApp name should be A-John4567) non compliance -1 negative marks

1. Login to VCloud and Create VApp using template CCGC5000lab as given below



- 2. **After logging into VCLoud,** to create VApp, click on LIBRARIES ->vAppTemplates-> Select vApp **CCGC5000lab** ->CREATE VAPP->**Enter VApp Name as respecified above**->NEXT->Select the only available VirtualDataCentre(VDC) and click NEXT>Click NEXT for other options(Do not modify any information) and then Click FINISH.
- 3. It is **mandatory** to add-in your name to the VM names(negative -4 marks for non compliance) in your vApp created. The steps are as below:
 - Click on Datacenters->fast-vcloud.humber.ca, VMs WS2019, DC2022, toronto and montreal should be available ->in WS2019 VM click on DETAILS->Click GENERAL->click EDIT->in NAME, to existing VM Name WS2019 add your firstname with last four digits of your Humber number that starts with n (for example, John Smith with humber number n01234567, WS2019 VM name should be WS2019-john4567)->click SAVE.
- **4.** On the left side, click on VirtualMachines and similarly for **DC2022** VM name also add in your firstname with your last four digits of your Humber number and save it
- 5. On the left side, click on VirtualMachines and similarly for **toronto** VM name also add in your firstname with your last four digits of your Humber number and save it.
- 6. On the left side, click on VirtualMachines and similarly for **montreal** VM name also add in your firstname with your last four digits of your Humber number and save it.





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PART-B: USER CONFIGURATION in VMs

NOTE: In VCloud, click on DataCenters->fast-vcloud.humber.ca->VirtualMachines. Click on ACTIONS under VM to view various optoins available, for example Power ON, Power OFF, Launch Web Console, etc. (some features would be enabled only when VM is Powered ON)

- 7. Power on the toronto VM, Launch Web Console, then login as changeme and password is changeme
- 8. In toronto VM, (Ignore the Registration notification, close the window) create a username with yyzyourfirstname (example for John Smith the username is yyzjohn) and make the user supplementary member of wheel group and assign a password. Your username should be in lower case

To create user: **sudo useradd -c "yourfirstname yourlastname" -G wheel yyz**yourfirstname

- To assign password: **sudo passwd yyz**yourfirstname
- 9. Click on the power button on the top right corner and then click on changeme and then click on logout and then login with your own username. (DO NOT su or switch user)
- 10. Power on the montreal VM, Launch Web Console, then login as changeme and password is changeme
- 11. In montreal VM, (Ignore the Registration notification, close the window) create a username yulyourfirstname (example for John Smith the username is yuljohn) and make the user supplementary member of wheel group and assign a password. (Refer to usercreation, password assignment commands given above) Your username should be in lower case
- 12. Click on powerbutton on top left and select PowerOff/Logout ->Logout as changeme (DO NOT su or switch user) and login with your own username.

SCREENSHOTS: a) In VCloud, click on DataCenters->fast-vcloud.humber.ca->VirtualMachines->click on in the top right corner (take one screenshot such that all four VMs names are clearly visible)

- b) In toronto VM, at command prompt type grep yourusername /etc/passwd /etc/group and press enter (take screenshot)
- c) In montreal VM, at command prompt, type grep yourusername /etc/passwd /etc/group and press enter (take screenshot)

*Windows VMs will be required from Lab-10, until then shut down both Windows VM to save VCloud resources.

replace nnnn with your last four digits of your HumberID which starts with n

PART-C: CONFIGURE HOSTNAME

13. In **Toronto** VM, Change hostname to **toronto**yourlast4digitsofHumberID.ccgc5000.net using the following command

sudo hostnamectl set-hostname torontonnnn.ccgc5000.net

- and type exit to close the terminal and then open the terminal again to view the newly changed hostname. To display hostname in command prompt type hostname (SCREENSHOT)
- 14. In Montreal VM, Change the hostname to montrealnnnn.ccgc5000.net and display it. (SCREENSHOT) (Refer to the steps for toronto vm for hostname configuration)

PART-D: SYSTEM INFORMATION

In toronto VM, click on Activities and click on Terminal and following activities need to be done.

- 15. Display in command prompt with following information
 - a. Current directory type pwd



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- b. Current date and time type date
- c. Currently logged in user type who, whoami, echo \$USER, echo \$LOGNAME, echo \$USERNAME
- d. Shell you are logged in echo \$SHELL
- e. Listing of files in your home directory Is
- f. kernel name, version uname, uname -r
- g. Display text "Hello, This is my CCGC5000's first lab" echo "type the text given"
- **h.** system information in single command hostname, machineID, BootID, OS, Kernel, Architecture **hostnamectl**

(SCREENSHOT : history |grep -E 'date|pwd|whoami|echo|ls|name')

PART-E: LINUX HELP

16. Try man man and info info

17. Use man and info command for cat, vim, dnf, rpm, ls, mkdir to learn about the help available in linux

18. Use --help with commands Is, dnf, rpm, cp and date to view the options available with the command

(SCREENSHOT : history | grep -E 'man|info|help')

