COMS 252 HOMEWORK 5: INSTALLING PACKAGES

Group assignment (with 5% penalty per group member)

Due October 5, 2021

1 Objectives

For this assignment, you will install precompiled packages onto three different virtual machines. Be sure to run the `Turnin` script on each machine, as `root` or using `sudo`.

2 Installing packages using `apt`

2.1 Download

Download the `Hw05apt.ova` virtual machine. This is a minimal Ubuntu machine, where account `user` has password `userpw` and has `sudo` privileges (any commands that you need to run as `root`, run as `user` but type "sudo" in front of it).

2.2 Install nethack

Using `apt` in a shell, install `nethack-console`. This is an adventure game that runs in a terminal. Be sure to run `nethack` to make sure it installed correctly.

2.3 Submitting your work on `Hw05apt.ova`

Run `Turnin your-username` to submit your work. After you submit, you should `poweroff` the virtual machine.

3 Installing packages using `dnf` or `yum`

3.1 Download

Download the `Hw05dnf.ova` virtual machine. This is a minimal Fedora machine, where accounts `root` and `user` have passwords `rootpw` and `userpw`.

3.2 Install nethack, again

Using `dnf` or `yum` in a shell, install `nethack`. Make sure it installed correctly.

3.3 Submitting your work on `Hw05dnf.ova`

Run `Turnin your-username` to submit your work. After you submit, you should `poweroff` the virtual machine.

4 Installing packages using `rpm`

4.1 Download

Download the `Hw05rpm.ova` virtual machine. It is an old Fedora 17 virtual machine without any GUI. Again, accounts `root` and `user` have passwords `rootpw` and `userpw`, respectively. Also, download the CD image `Hw05rpms.iso` which contains several files you will need.

4.2 Install `gcc`

Use VirtualBox to map the CD drive to the file `Hw05rpms.iso`. In Linux, the CD drive should be device `/dev/cdrom`. You will need to `mount` the CD to some convenient mount point, so you can access the files on the CD. The (virtual) CD contains several RPMs. Using the `rpm` utility, install the package "gcc". This will require you to install some dependencies "by hand", which should also be installed using `rpm`. Everything you need is available on the virtual CD, but the hard part is finding the filenames that match the required dependencies. (This is the fault of the package maintainers; I did not change any filenames. Also, note that the ISO contains only a few RPMs, so you should be able to search through the file listing.) Note — **do not** install more packages than necessary. You can run `gcc` to make sure it installed properly.

4.3 Submitting your work on `Hw05rpm.ova`

Run `Turnin your-username` to submit your work. After you submit, you should `poweroff` the virtual machine.