UbuntuWS Script and Installation

* First, we will need to get the script onto the machine. To do this, I utilized git. We will need to install git first, which we will do through the command “sudo apt install git”
* After installing git, we will need to pull the repository down to the machine. The repository is public so you will not need to sign in to pull it. To do this you will type the command “git clone https://github.com/Easton683/Repo”. Then you will need to copy the file to your users folder using “cp ubuntuWorkstationSetup.sh /home/[USERNAMEHERE]”. After that you will just make it executable and run it. The script is below for documentation purposes.
* #!/bin/bash
* # Updating the system
* sudo apt update && sudo apt upgrade -y
* # Downloading image to home and setting it as the background
* sudo apt install curl -y
* curl -o background.jpg "https://cdn1.vectorstock.com/i/1000x1000/57/05/sysadmin-computer-and-technical-support-cartoon-vector-19575705.jpg"
* gsettings set org.gnome.desktop.background picture-uri "$(pwd)/background.jpg"
* # Installing Plymouth Theme
* sudo apt install plymouth-themes -y
* yes 2 | sudo update-alternatives --config default.plymouth
* # installing powerline and configuring for BASH and Vim
* sudo apt install powerline -y
* echo "source /usr/share/powerline/bindings/bash/powerline.sh" >> ~/.bashrc
* echo "set rtp+=/usr/share/powerline/bindings/vim/" >> ~/.vimrc
* # Install and configure firewalld
* sudo apt install -y firewalld
* sudo systemctl enable firewalld
* sudo systemctl start firewalld
* sudo firewall-cmd --zone=public --add-service=ssh --permanent
* sudo firewall-cmd --reload
* # Write the cron job to a temporary file and then inputting it into cron
* echo "30 23 \* \* 4 root apt update && apt upgrade -y" > /tmp/auto\_updates\_cron
* sudo crontab /tmp/auto\_updates\_cron
* rm /tmp/auto\_updates\_cron
* This will setup the Ubuntu Workstation by curling a background image and setting it as desktop background, setting a theme with Plymouth to change the splash screen slightly, installing powerline in both vim and bash, setting up firewalld, and setting up a cron job to update every Thursday at 11:30 pm.

rockyAdminServerSetup Script and installation

* To start here we will need to get the install script onto the new headless vm. To do this, it is easiest to clone the github repository that I have setup. To start you will have to run “sudo dnf install git -y”. This will run through the install from github. After that you will have to clone the repository. To do this you will type the command “git clone https://github.com/Easton683/Repo”. Then you will need to copy the file to your users folder using “cp rockyAdminServerSetup.sh /home/[USERNAMEHERE]”. After that you will just make it executable and run it. Also one thing to note is that the password setup is 1qaz!QAZ1qaz. When it prompts for a password use that one.

(Script pasted below)

* #!/bin/bash
* # Updating the system
* sudo dnf update && sudo dnf upgrade -y
* # Install and configure DNS server
* sudo dnf install bind bind-utils -y
* sudo systemctl enable named
* sudo systemctl start named
* # Install DHCP server
* sudo dnf install dhcp-server -y
* # Configure /etc/dhcp/dhcpd.conf
* sudo cd /etc/dhcp
* printf 'option domain-name "easton-jackson.com";\nsubnet 10.0.5.1 netmask 255.255.255.0 {\nrange 10.0.5.1 10.0.5.254;\noption routers 10.0.5.1;\noption domain-name-servers 8.8.8.8, 8.8.4.4;\noption subnet-mask 255.255.255.0;\noption broadcast-address 192.168.1.255;\ndefault-lease-time 600;\nmax-lease-time 7200;\n}' | sudo tee dhcp.conf
* sudo systemctl start dhcpd
* sudo systemctl enable dhcpd
* # Install openLDAP server
* cd /home/eastonjackson1
* sudo dnf install curl -y
* sudo dnf install tar -y
* sudo dnf install gcc -y
* sudo dnf install sed -y
* curl -O https://www.openldap.org/software/download/OpenLDAP/openldap-release/openldap-2.5.17.tgz
* gunzip -c openldap-2.5.17.tgz | tar xvfB -
* cd openldap-2.5.17
* ./configure
* make depend
* make
* make test
* su root -c 'make install'
* # Configuring LDAP
* cd /servers/slapd
* sudo sed -i 's/olcSuffix: dc=my-domain,dc=com/olcSuffix: dc=easton-jackson,dc=com/g' slapd.ldif
* sudo sed -i 's/cn=Manager,dc=my-domain/cn=Manager,dc=easton-jackson/g' slapd.ldif
* sudo sed -i 's/olcRootPW: secret/olcRootPW: 1qaz!QAZ1qaz/g' slapd.ldif
* # Install and configure firewalld
* sudo dnf install -y firewalld
* sudo systemctl enable firewalld
* sudo systemctl start firewalld
* sudo firewall-cmd --zone=public --add-service=dns --permanent
* sudo firewall-cmd --zone=public --add-service=dhcp --permanent
* sudo firewall-cmd --zone=public --add-service=ldap --permanent
* sudo firewall-cmd --reload
* # Configure auto updates
* sudo dnf install -y dnf-automatic
* sudo systemctl enable --now dnf-automatic.timer
* This script updates the system, installs and configures it as a DNS Server, installs and configures it as a DHCP server, installs and configures it as an openLDAP server, installs and configures firewalld, and configures auto updates to run.

RockyLinuxWebServer Script and Installation

* This vm will be setup in a very similar fashion to the one above. We will install git first by using “sudo dnf install git -y”. After that we will pull the repository down by using “git clone <https://github.com/Easton683/Repo>”. Then you will need to copy the file to your users folder using “cp rockyWebServerSetup.sh /home/[USERNAMEHERE]”. After that you will just make it executable and run it. Another thing to note is that the wordpress user password is set as “)&tHIoshN!XA8f\*17y”