Installing a CentOS 7 VM on VMware

This was written w/ VMware Fusion on the Mac, but should be pretty close to what you'll see in Windows. Please report any issues to: jody.hunt@cyberark.com

1) Download a CentOS 7 DVD ISO from:
   https://www.centos.org/download/

2) In your VMware UI
   - Click + and select "New…" from menu
   - Select "Install from disc or image" (big panel on left) & click Continue
   - Click CentOS-7-x86_64-DVD.iso & click Continue
   - Ensure "Use Easy Install" is checked
     - Fill in display and account names
     - Enter desired password and confirm
     - This password is for both user and root login
   - Check "Make your home folder accessible…" to access your host home directory from within the VM.
   - Click Continue
   - On "Finish" window w/ VM summary, select "Customize Settings" – name VM whatever you like and click save
   - In "System Settings" window
     - Select "Sharing"
       - Confirm your home host folder will be shared
       - Make sure "Enable Shared Folders" is checked
       - Make note of folder name – it will be needed in the mount command below
     - Select "Processors & Memory"
       - Select 2 processor cores & 8192MB of Memory (Minikube VM reserves 6144MB)
       - Click Advanced options arrow
       - Click the checkbox labeled "Virtualize Intel VT-x/EPT or AMD-V/RV" or "Enable hypervisor applications in this virtual machine"
         - This enables you to run VirtualBox in the VM
       - Click "Show all"
   - Optional: Remove superfluous features like sound card, camera and printer
   - Close Settings window and start VM
   - CentOS installation will commence

3) Configure CentOS
   - Accept user license and set language preferences

- Open a terminal window from the Applications menu (upper left)
- Become root user
  - Command: su
  - Root password is same as user password
- Run “yum update –y” to update your VM to the latest & greatest.
  - This will download and install a crapload of stuff so be patient. It will prevent a bunch of issues later.
- Change login user to be in group wheel
  - Command: usermod –g wheel <login-user>
- Edit sudoers so group wheel can sudo w/o a password
  - Command: visudo
  - Delete # on line allowing group wheel to execute all commands with no password

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## Same thing without a password
%wheel  ALL=(ALL)       NOPASSWD: ALL
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  - Exit root login and check that you can sudo w/o password
    - Command: sudo ls /

- Mount your host file system in the CentOS VM
  - In VMware menu, select Virtual Machine/Reinstall VMware Tools
  - This will drop down a window to confirm reinstallation, click Install
  - After a bit, a menu will pop up at bottom of screen
  - Select “Open with Files”
  - This will bring up a VMware Tools folder
    - Double click on VMwareTools-xxx.tar.gz
    - In the new window click Extract in upper left
    - Select a yfolder to extract into, e.g. Documents
    - Click Extract in upper right of window
    - When Success window appears click Quit
    - In terminal window cd to vmware-tools-distrib directory
      - E.g “cd ~/Documents/vmware-tools-distrib”
    - Install VMware tools
      - Command: sudo ./vmware-install.pl
      - Accept defaults at prompt by hitting Enter
        - Except opt out of Thinprint unless you plan on printing from the VM
      - It will take a minute or so of minutes to rebuild the kernel

- Create a new directory where you will mount your host's home directory:
  - E.g. mkdir /home/demo/mydir
- Mount the shared home directory folder on the new mount point. The home directory is referenced with the shared folder name displayed in System Settings/Sharing window during initial VM setup
  - E.g. sudo mount –t vmhgfs .host:/myhomefolder /home/demo/mydir
    Could not add entry to mtab, continuing
- Ignore the "Could not add…" message
- Your host's home directory should now appear in your directory hierarchy and as a drive icon in the upper left of your desktop. You can run and edit files as if they were part of your VM filesystem. All changes to files are written to the host file system.