Fedora Server 40 on Parallels Installation

1. Downloaded Fedora Desktop from the Fedora Web Page.

2. Installed using Parallels Control Center.

3. Updated using Administrative Web Page.

4. Setup Terminal SSH Shortcut on Mac Applications Bar.

5. Installed Nano text editor: sudo dnf install nano.

6. Created directory: .ssh

7. Created file: .ssh/id_rsa

8. Created file: .ssh/authorized_keys

9. Started this document using Microsoft Office on Mac.

10. Fully disabled SELinux using:
    . sudo grubby --update-kernel ALL --args selinux=0

11. Installed Parallels Tools using https://download.parallels.com/desktop/v1.5/docs/en_US/Parallels Desktop User's Guide/33306.htm

12. Set up Fetch SFTP Shortcut on Applications Bar.

13. In directory /usr/lib64 – Link libncurses, libncursesw, and libtinfo version 5 to the most recent version.

14. libncurses.so.5 -> libncurses.so.6.4
    biskate@FSL:/usr/lib64$ ls -al libncurses.so.*
    lrwxrwxrwx. 1 root root 17 Aug 21 20:00 libncurses.so.6 -> libncurses.so.6.4
    -rwxr-xr-x. 1 root root 183512 Aug 21 20:00 libncurses.so.6.4
    biskate@FSL:/usr/lib64$ sudo ln -s libncurses.so.6.4 -T libncurses.so.5
    biskate@FSL:/usr/lib64$ ls -al libncurses.so.*
    lrwxrwxrwx 1 root root 17 Feb 12 20:28 libncurses.so.5 -> libncurses.so.6.4
    lrwxrwxrwx. 1 root root 17 Aug 21 20:00 libncurses.so.6 -> libncurses.so.6.4
    -rwxr-xr-x. 1 root root 183512 Aug 21 20:00 libncurses.so.6.4

15. libncursesw.so.5 -> libncursesw.so.6.4
    biskate@FSL:/usr/lib64$ ls -al libncursesw.so.*
    lrwxrwxrwx. 1 root root   18 Aug 21 20:00 libncursesw.so.6 -> libncursesw.so.6.4
    -rwxr-xr-x. 1 root root 262520 Aug 21 20:00 libncursesw.so.6.4
    biskate@FSL:/usr/lib64$ sudo ln -s libncursesw.so.6.4 -T libncursesw.so.5
    biskate@FSL:/usr/lib64$ ls -al libncursesw.so.*
    lrwxrwxrwx 1 root root   18 Feb 12 20:34 libncursesw.so.5 -> libncursesw.so.6.4
    lrwxrwxrwx. 1 root root   18 Aug 21 20:00 libncursesw.so.6 -> libncursesw.so.6.4
    -rwxr-xr-x. 1 root root 262520 Aug 21 20:00 libncursesw.so.6.4

16. libtinfo.so.5 -> libtinfo.so.6.4
    biskate@FSL:/usr/lib64$ ls -al libtinfo.so.*
    lrwxrwxrwx. 1 root root   15 Aug 21 20:00 libtinfo.so.6 -> libtinfo.so.6.4
    -rwxr-xr-x. 1 root root 215912 Aug 21 20:00 libtinfo.so.6.4
    biskate@FSL:/usr/lib64$ sudo ln -s libtinfo.so.6.4 -T libtinfo.so.5
    biskate@FSL:/usr/lib64$ ls -al libtinfo.so.*
    lrwxrwxrwx 1 root root   15 Feb 12 20:37 libtinfo.so.5 -> libtinfo.so.6.4
    lrwxrwxrwx. 1 root root   15 Aug 21 20:00 libtinfo.so.6 -> libtinfo.so.6.4
    -rwxr-xr-x. 1 root root 215912 Aug 21 20:00 libtinfo.so.6.4

17. Downloaded GT.m from the following link.
    https://sourceforge.net/projects/fis-gtm/
    Made directory: /tmp/gtm
    Uncompress.
        . Example: tar xvf gtm_V71003_linux_x8664_pro.tar.gz -C /tmp/gtm
    Installed GTM: ./configure.
        . No to utf8.
        . Installed in /usr/lib/fis-gtm/V71003
        . Uppercase and Lowercase versions: No
        . Keep original .o object files: y
        . Remove temporary files: y

18. Installed nodejs and npm: sudo dnf install nodejs.
    sudo dnf install nodejs
    Complete!
    biskate@FSLA:~$ node -v
    v20.12.2
    biskate@FSLA:~$ npm -v
    10.5.0

19. Installed pm2
    sudo npm install -g pm2
    pm2 --version
    5.4.2

pm2 startup

20. Update Linux
    sudo dnf update
    Last metadata expiration check: 0:00:37 ago on Tue 10 Sep 2024 01:11:12 AM EDT.
    Dependencies resolved.
    Complete!

21. Install the Apache Web Server.
    sudo dnf install httpd
    Complete!

22. Install PHP.
    sudo dnf install php php-mysqlnd
    Complete!

23. Start the Apache service and enable it to start on boot.
    sudo systemctl start httpd
    sudo systemctl enable httpd
    Created symlink /etc/systemd/system/multi-user.target.wants/httpd.service →
    /usr/lib/systemd/system/httpd.service.

24. Allow Apache through the firewall.
    sudo firewall-cmd --add-service=http --permanent
    success
    sudo firewall-cmd --reload
    success

25. Test Web Server with Browser.
    http://10.211.55.156
    Success

26. Test Apache and PHP.
    pwd
    /var/www/html
    echo "<?php phpinfo(); ?>" | sudo tee info.php
    Success

27. Remove PHP Info Page.
    sudo rm info.php

28. Installed the most recent VistA backup.
    Create the vista directory off of the user's root.
    Create the backups directory off of the user's root.

Copy / sftp the latest VistA backup to the backups directory.
Restore the VistA backup.

```
tar -zxvf ~/backups/2024-07-13-vista.tar.gz -C ~/vista
```

Create the /var/www/html/vista directory and change the owner.

```
sudo mkdir vista
sudo chown biskate:biskate vista
```

Move the files from the ~/vista/html directory to /var/www/html/vista directory.

```
mv * /var/www/html/vista
```

Remove the ~/vista/html

```
rm ~/vista/html
```

Link the two directories.

```
ln -s /var/www/html/vista /home/biskate/vista/html
```

Edited the mumps.gld using ^GDE to set the database directory.

```
change -segment DEFAULT -file=/home/biskate/vista/g/mumps.dat
```

29. Install Pandoc.
    sudo dnf install pandoc
    Complete!

30. Install tldr
    sudo dnf install tldr
    Complete!

31. Start up the node.js services.
    pm2 start index.js -n '8090 - index'

32. Test the web pages.
    FSL SYSTEM MONITOR working.
    FileMan API Tester working.
    Iris / Vista Patch Compare working.
    Iris / Gtm Vista Patch Compare working.
    Vista Dictionary Viewer working.
    Vista Option Viewer working.
    Vista RPC Viewer working.
    Surgery File Demo working.
    Documentation working.
    Linux Help working.