login as: root

root@192.168.0.103's password:

Activate the web console with: systemctl enable --now cockpit.socket

Register this system with Red Hat Insights: insights-client --register

Create an account or view all your systems at https://red.ht/insights-dashboard

Last login: Tue Nov 8 19:57:10 2022

**[root@localhost ~]# lsblk**

NAME MAJ:MIN RM SIZE RO TYPE MOUNTPOINT

sda 8:0 0 20G 0 disk

├─sda1 8:1 0 1G 0 part /boot

└─sda2 8:2 0 19G 0 part

├─rhel-root 253:0 0 17G 0 lvm /

└─rhel-swap 253:1 0 2G 0 lvm [SWAP]

sr0 11:0 1 10.7G 0 rom /run/media/root/RHEL-8-6-0-BaseOS-x86\_64

Step 1: Mount the Red Hat Enterprise Linux 8 media

**[root@localhost ~]# mkdir /mnt/disk1**

**[root@localhost ~]# vim /etc/fstab**

/dev/sr0 /mnt/disk1 iso9660 defaults 0 0

**[root@localhost ~]# mount -a**

**[root@localhost ~]# pwd**

/root

Step 2: Create a local YUM repository from the mounted media

Move the existing repo files located in /etc/yum.repos.d:

**[root@localhost ~]# mv /etc/yum.repos.d/\*.repo /tmp/**

Create a directory for the repo:

**[root@localhost ~]# mkdir /local\_repo**

Create the new local repository’s configuration file, local-dvd.repo, under the /etc/yum.repos.d directory and set the permissions:

**[root@localhost ~]# touch /etc/yum.repos.d/local-dvd.repo**

**[root@localhost ~]# chmod u+rw,g+r,o+r /etc/yum.repos.d/local-dvd.repo**

Step 3: Copy media content to the local directory

Copy the ISO files locally under the /local\_repo directory:

**[root@localhost ]# cd /mnt/disk1**

**[root@localhost disk1]# tar cvf - . | (cd /local\_repo/; tar xvf -)**

Verify that the files were copied using:

**[root@localhost disk1]# ls -l /local\_repo/**

total 52

dr-xr-xr-x. 4 root root 38 Jun 28 03:50 AppStream

dr-xr-xr-x. 4 root root 38 Jun 28 03:50 BaseOS

dr-xr-xr-x. 3 root root 18 Jun 28 03:50 EFI

-r--r--r--. 1 root root 8154 Jun 28 03:50 EULA

-r--r--r--. 1 root root 1455 Jun 28 03:50 extra\_files.json

-r--r--r--. 1 root root 18092 Jun 28 03:50 GPL

dr-xr-xr-x. 3 root root 76 Jun 28 03:50 images

dr-xr-xr-x. 2 root root 256 Jun 28 03:50 isolinux

-r--r--r--. 1 root root 103 Jun 28 03:49 media.repo

-r--r--r--. 1 root root 1669 Jun 28 03:50 RPM-GPG-KEY-redhat-beta

-r--r--r--. 1 root root 5135 Jun 28 03:50 RPM-GPG-KEY-redhat-release

-r--r--r--. 1 root root 1796 Jun 28 03:50 TRANS.TBL

Step 4: Configure the local YUM/DNF repository

Edit the repo configuration file we created earlier:

**[root@localhost disk1]# vim /etc/yum.repos.d/local-dvd.repo**

[AppStream]

name=AppStream

baseurl=file:///local\_repo/AppStream/

gpgcheck=0

enabled=1

[BaseOS]

name=BaseOS

baseurl=file:///local\_repo/BaseOS/

gpgcheck=0

enabled=1

**[root@localhost disk1]# yum repolist**

Updating Subscription Management repositories.

Unable to read consumer identity

This system is not registered with an entitlement server. You can use subscripti on-manager to register.

repo id repo name

AppStream AppStream

BaseOS BaseOS

**[root@localhost disk1]# yum repolist all**

Updating Subscription Management repositories.

Unable to read consumer identity

This system is not registered with an entitlement server. You can use subscripti on-manager to register.

repo id repo name status

AppStream AppStream enabled

BaseOS BaseOS enabled

**[root@localhost disk1]# yum install createrepo -y**

Updating Subscription Management repositories.

Unable to read consumer identity

This system is not registered with an entitlement server. You can use subscripti on-manager to register.

Last metadata expiration check: 0:01:22 ago on Tue 08 Nov 2022 02:39:18 PM EST.

Dependencies resolved.

================================================================================

Package Architecture Version Repository Size

================================================================================

Installing:

createrepo\_c x86\_64 0.17.7-5.el8 AppStream 89 k

Installing dependencies:

createrepo\_c-libs x86\_64 0.17.7-5.el8 AppStream 116 k

drpm x86\_64 0.4.1-3.el8 AppStream 68 k

Transaction Summary

================================================================================

Install 3 Packages

Total size: 274 k

Installed size: 580 k

Downloading Packages:

Running transaction check

Transaction check succeeded.

Running transaction test

Transaction test succeeded.

Running transaction

Preparing : 1/1

Installing : drpm-0.4.1-3.el8.x86\_64 1/3

Installing : createrepo\_c-libs-0.17.7-5.el8.x86\_64 2/3

Installing : createrepo\_c-0.17.7-5.el8.x86\_64 3/3

Running scriptlet: createrepo\_c-0.17.7-5.el8.x86\_64 3/3

Verifying : createrepo\_c-0.17.7-5.el8.x86\_64 1/3

Verifying : createrepo\_c-libs-0.17.7-5.el8.x86\_64 2/3

Verifying : drpm-0.4.1-3.el8.x86\_64 3/3

Installed products updated.

Installed:

createrepo\_c-0.17.7-5.el8.x86\_64 createrepo\_c-libs-0.17.7-5.el8.x86\_64

drpm-0.4.1-3.el8.x86\_64

Complete!

**[root@localhost disk1]# createrepo /local\_repo/**

Directory walk started

Directory walk done - 8323 packages

Temporary output repo path: /local\_repo/.repodata/

Preparing sqlite DBs

Pool started (with 5 workers)

Pool finished

Step 5: Test and verify your local repository

**[root@localhost disk1]# yum clean all**

Updating Subscription Management repositories.

Unable to read consumer identity

This system is not registered with an entitlement server. You can use subscripti on-manager to register.

14 files removed

**[root@localhost disk1]# yum repolist**

Updating Subscription Management repositories.

Unable to read consumer identity

This system is not registered with an entitlement server. You can use subscripti on-manager to register.

repo id repo name

AppStream AppStream

BaseOS BaseOS

**[root@localhost disk1]# yum repolist all**

Updating Subscription Management repositories.

Unable to read consumer identity

This system is not registered with an entitlement server. You can use subscripti on-manager to register.

repo id repo name status

AppStream AppStream enabled

BaseOS BaseOS enabled

**[root@localhost disk1]# ls /local\_repo/repodata/**

14cef80ce03a464f43f169a4a8656d9a6412b19397fea49e1717c9703819f256-other.xml.gz

232b1fb4d5d583a0c2b707b5fc0ff622637dc4f3c384a7bbeb9051f1b3fa35b0-filelists.xml.g z

2d519b975eb752f02adebbcce1523cf258a3f72b8e2cb7e5e14e1fffa9ad6fc5-primary.sqlite. bz2

39d25d4f909eda95315e1a2b8a3c1545e72a58933b191b001ab679afafbcafc0-other.sqlite.bz 2

49c0ad7fc68c151f91e1f8a1c2b6ce381e9ea51e7dddf1bd9758ddcfcc974000-primary.xml.gz

c673383b7c9dd53ada41acb3921cae26c89378054235f54122b41a351b3479d1-modules.yaml.gz

d6232b4e222a1c2ca74d9f3453d717a3ac8c5c8046e4b32463667f9675d09705-filelists.sqlit e.bz2

repomd.xml

**[root@localhost disk1]# yum install yum-utils**

Updating Subscription Management repositories.

Unable to read consumer identity

This system is not registered with an entitlement server. You can use subscripti on-manager to register.

AppStream 3.1 MB/s | 3.2 kB 00:00

BaseOS 16 MB/s | 2.4 MB 00:00

Dependencies resolved.

================================================================================

Package Architecture Version Repository Size

================================================================================

Installing:

yum-utils noarch 4.0.21-11.el8 BaseOS 73 k

Transaction Summary

================================================================================

Install 1 Package

Total size: 73 k

Installed size: 23 k

Is this ok [y/N]: y

Downloading Packages:

Running transaction check

Transaction check succeeded.

Running transaction test

Transaction test succeeded.

Running transaction

Preparing : 1/1

Installing : yum-utils-4.0.21-11.el8.noarch 1/1

Running scriptlet: yum-utils-4.0.21-11.el8.noarch 1/1

Verifying : yum-utils-4.0.21-11.el8.noarch 1/1

Installed products updated.

Installed:

yum-utils-4.0.21-11.el8.noarch

Complete!

**[root@localhost disk1]# yum install httpd -y**

Updating Subscription Management repositories.

Unable to read consumer identity

This system is not registered with an entitlement server. You can use subscripti on-manager to register.

Last metadata expiration check: 0:00:14 ago on Tue 08 Nov 2022 02:50:24 PM EST.

Dependencies resolved.

================================================================================

Package Arch Version Repo Size

================================================================================

Installing:

httpd x86\_64 2.4.37-47.module+el8.6.0+14529+083145da.1 AppStream 1.4 M

Installing dependencies:

apr x86\_64 1.6.3-12.el8 AppStream 130 k

apr-util x86\_64 1.6.1-6.el8 AppStream 105 k

httpd-filesystem

noarch 2.4.37-47.module+el8.6.0+14529+083145da.1 AppStream 41 k

httpd-tools x86\_64 2.4.37-47.module+el8.6.0+14529+083145da.1 AppStream 108 k

mod\_http2 x86\_64 1.15.7-5.module+el8.6.0+13996+01710940 AppStream 155 k

redhat-logos-httpd

noarch 84.5-1.el8 BaseOS 29 k

Installing weak dependencies:

apr-util-bdb x86\_64 1.6.1-6.el8 AppStream 25 k

apr-util-openssl

x86\_64 1.6.1-6.el8 AppStream 27 k

Enabling module streams:

httpd 2.4

Transaction Summary

================================================================================

Install 9 Packages

Total size: 2.0 M

Installed size: 5.4 M

Downloading Packages:

Running transaction check

Transaction check succeeded.

Running transaction test

Transaction test succeeded.

Running transaction

Preparing : 1/1

Installing : apr-1.6.3-12.el8.x86\_64 1/9

Running scriptlet: apr-1.6.3-12.el8.x86\_64 1/9

Installing : apr-util-bdb-1.6.1-6.el8.x86\_64 2/9

Installing : apr-util-openssl-1.6.1-6.el8.x86\_64 3/9

Installing : apr-util-1.6.1-6.el8.x86\_64 4/9

Running scriptlet: apr-util-1.6.1-6.el8.x86\_64 4/9

Installing : httpd-tools-2.4.37-47.module+el8.6.0+14529+083145da. 5/9

Installing : redhat-logos-httpd-84.5-1.el8.noarch 6/9

Running scriptlet: httpd-filesystem-2.4.37-47.module+el8.6.0+14529+0831 7/9

Installing : httpd-filesystem-2.4.37-47.module+el8.6.0+14529+0831 7/9

Installing : mod\_http2-1.15.7-5.module+el8.6.0+13996+01710940.x86 8/9

Installing : httpd-2.4.37-47.module+el8.6.0+14529+083145da.1.x86\_ 9/9

Running scriptlet: httpd-2.4.37-47.module+el8.6.0+14529+083145da.1.x86\_ 9/9

Verifying : apr-1.6.3-12.el8.x86\_64 1/9

Verifying : apr-util-1.6.1-6.el8.x86\_64 2/9

Verifying : apr-util-bdb-1.6.1-6.el8.x86\_64 3/9

Verifying : apr-util-openssl-1.6.1-6.el8.x86\_64 4/9

Verifying : httpd-2.4.37-47.module+el8.6.0+14529+083145da.1.x86\_ 5/9

Verifying : httpd-filesystem-2.4.37-47.module+el8.6.0+14529+0831 6/9

Verifying : httpd-tools-2.4.37-47.module+el8.6.0+14529+083145da. 7/9

Verifying : mod\_http2-1.15.7-5.module+el8.6.0+13996+01710940.x86 8/9

Verifying : redhat-logos-httpd-84.5-1.el8.noarch 9/9

Installed products updated.

Installed:

apr-1.6.3-12.el8.x86\_64

apr-util-1.6.1-6.el8.x86\_64

apr-util-bdb-1.6.1-6.el8.x86\_64

apr-util-openssl-1.6.1-6.el8.x86\_64

httpd-2.4.37-47.module+el8.6.0+14529+083145da.1.x86\_64

httpd-filesystem-2.4.37-47.module+el8.6.0+14529+083145da.1.noarch

httpd-tools-2.4.37-47.module+el8.6.0+14529+083145da.1.x86\_64

mod\_http2-1.15.7-5.module+el8.6.0+13996+01710940.x86\_64

redhat-logos-httpd-84.5-1.el8.noarch

Complete!

**[root@localhost disk1]# systemctl status httpd.service**

● httpd.service - The Apache HTTP Server

Loaded: loaded (/usr/lib/systemd/system/httpd.service; disabled; vendor pres>

Active: inactive (dead)

Docs: man:httpd.service(8)

**[root@localhost disk1]# systemctl enable httpd.service**

Created symlink /etc/systemd/system/multi-user.target.wants/httpd.service → /usr /lib/systemd/system/httpd.service.

**[root@localhost disk1]# systemctl start httpd.service**

**[root@localhost disk1]# systemctl status httpd.service**

● httpd.service - The Apache HTTP Server

Loaded: loaded (/usr/lib/systemd/system/httpd.service; enabled; vendor prese>

Active: active (running) since Tue 2022-11-08 14:51:37 EST; 18s ago

Docs: man:httpd.service(8)

Main PID: 38782 (httpd)

Status: "Running, listening on: port 80"

Tasks: 213 (limit: 11222)

Memory: 25.6M

CGroup: /system.slice/httpd.service

├─38782 /usr/sbin/httpd -DFOREGROUND

├─38783 /usr/sbin/httpd -DFOREGROUND

├─38784 /usr/sbin/httpd -DFOREGROUND

├─38785 /usr/sbin/httpd -DFOREGROUND

└─38786 /usr/sbin/httpd -DFOREGROUND

Nov 08 14:51:37 localhost.localdomain systemd[1]: Starting The Apache HTTP Serv>

Nov 08 14:51:37 localhost.localdomain httpd[38782]: AH00558: httpd: Could not r>

Nov 08 14:51:37 localhost.localdomain systemd[1]: Started The Apache HTTP Serve>

Nov 08 14:51:37 localhost.localdomain httpd[38782]: Server configured, listenin>

**[root@localhost disk1]# firewall-cmd --list-all**

public (active)

target: default

icmp-block-inversion: no

interfaces: enp0s3

sources:

services: cockpit dhcpv6-client ssh

ports:

protocols:

forward: no

masquerade: no

forward-ports:

source-ports:

icmp-blocks:

rich rules:

[root@localhost disk1]# firewall-cmd --permanent --add-service=http

success

[root@localhost disk1]# firewall-cmd --permanent --add-service=https

success

[root@localhost disk1]# firewall-cmd --reload

success

**[root@localhost disk1]# ip a s**

1: lo: <LOOPBACK,UP,LOWER\_UP> mtu 65536 qdisc noqueue state UNKNOWN group defaul t qlen 1000

link/loopback 00:00:00:00:00:00 brd 00:00:00:00:00:00

inet 127.0.0.1/8 scope host lo

valid\_lft forever preferred\_lft forever

inet6 ::1/128 scope host

valid\_lft forever preferred\_lft forever

2: enp0s3: <BROADCAST,MULTICAST,UP,LOWER\_UP> mtu 1500 qdisc fq\_codel state UP gr oup default qlen 1000

link/ether 08:00:27:2b:8e:42 brd ff:ff:ff:ff:ff:ff

inet 192.168.0.103/24 brd 192.168.1.255 scope global dynamic noprefixroute en p0s3

valid\_lft 41217sec preferred\_lft 41217sec

inet6 fe80::a00:27ff:fe2b:8e42/64 scope link noprefixroute

valid\_lft forever preferred\_lft forever

3: virbr0: <NO-CARRIER,BROADCAST,MULTICAST,UP> mtu 1500 qdisc noqueue state DOWN group default qlen 1000

link/ether 52:54:00:15:a6:25 brd ff:ff:ff:ff:ff:ff

inet 192.168.122.1/24 brd 192.168.122.255 scope global virbr0

valid\_lft forever preferred\_lft forever

**[root@localhost disk1]# vim /etc/httpd/conf/httpd.conf**

**[root@localhost disk1]# systemctl restart httpd.service**

[root@localhost disk1]# systemctl status httpd.service

● httpd.service - The Apache HTTP Server

Loaded: loaded (/usr/lib/systemd/system/httpd.service; enabled; vendor prese>

Active: active (running) since Tue 2022-11-08 15:00:15 EST; 32s ago

Docs: man:httpd.service(8)

Main PID: 39183 (httpd)

Status: "Running, listening on: port 80"

Tasks: 213 (limit: 11222)

Memory: 25.0M

CGroup: /system.slice/httpd.service

├─39183 /usr/sbin/httpd -DFOREGROUND

├─39184 /usr/sbin/httpd -DFOREGROUND

├─39185 /usr/sbin/httpd -DFOREGROUND

├─39186 /usr/sbin/httpd -DFOREGROUND

└─39187 /usr/sbin/httpd -DFOREGROUND

Nov 08 15:00:15 localhost.localdomain systemd[1]: Starting The Apache HTTP Serv>

Nov 08 15:00:15 localhost.localdomain httpd[39183]: AH00558: httpd: Could not r>

Nov 08 15:00:15 localhost.localdomain systemd[1]: Started The Apache HTTP Serve>

Nov 08 15:00:15 localhost.localdomain httpd[39183]: Server configured, listenin>

[root@localhost disk1]# cd /etc/httpd/conf

[root@localhost conf]# ls

httpd.conf magic

**[root@localhost conf**]# cd /etc/httpd/conf.d

**[root@localhost conf.d**]# ls

autoindex.conf README userdir.conf welcome.conf

**[root@localhost conf.d]# cd**

**[root@localhost ~]# rm -rf /etc/httpd/conf.d/welcome.conf**

**[root@localhost ~]# httpd -t**

AH00558: httpd: Could not reliably determine the server's fully qualified domain name, using localhost.localdomain. Set the 'ServerName' directive globally to s uppress this message

Syntax OK

**[root@localhost ~]# ls -Za /var/www/html/**

system\_u:object\_r:httpd\_sys\_content\_t:s0 .

system\_u:object\_r:httpd\_sys\_content\_t:s0 ..

**[root@localhost ~]# ls -Za /local\_repo/**

unconfined\_u:object\_r:default\_t:s0 .

system\_u:object\_r:root\_t:s0 ..

unconfined\_u:object\_r:default\_t:s0 AppStream

unconfined\_u:object\_r:default\_t:s0 BaseOS

unconfined\_u:object\_r:default\_t:s0 .discinfo

unconfined\_u:object\_r:default\_t:s0 EFI

unconfined\_u:object\_r:default\_t:s0 EULA

unconfined\_u:object\_r:default\_t:s0 extra\_files.json

unconfined\_u:object\_r:default\_t:s0 GPL

unconfined\_u:object\_r:default\_t:s0 images

unconfined\_u:object\_r:default\_t:s0 isolinux

unconfined\_u:object\_r:default\_t:s0 media.repo

unconfined\_u:object\_r:default\_t:s0 repodata

unconfined\_u:object\_r:default\_t:s0 RPM-GPG-KEY-redhat-beta

unconfined\_u:object\_r:default\_t:s0 RPM-GPG-KEY-redhat-release

unconfined\_u:object\_r:default\_t:s0 TRANS.TBL

unconfined\_u:object\_r:default\_t:s0 .treeinfo

**[root@localhost ~]# setfacl -R -m u:apache:rwx /local\_repo/**

**[root@localhost ~]# getenforce**

Enforcing

**[root@localhost ~]# chcon -Rt httpd\_sys\_content\_t /local\_repo/**

**[root@localhost ~]# yum install vsftpd -y**

Updating Subscription Management repositories.

Unable to read consumer identity

This system is not registered with an entitlement server. You can use subscripti on-manager to register.

Last metadata expiration check: 0:17:02 ago on Tue 08 Nov 2022 02:50:44 PM EST.

Dependencies resolved.

================================================================================

Package Architecture Version Repository Size

================================================================================

Installing:

vsftpd x86\_64 3.0.3-35.el8 AppStream 181 k

Transaction Summary

================================================================================

Install 1 Package

Total size: 181 k

Installed size: 347 k

Downloading Packages:

Running transaction check

Transaction check succeeded.

Running transaction test

Transaction test succeeded.

Running transaction

Preparing : 1/1

Installing : vsftpd-3.0.3-35.el8.x86\_64 1/1

Running scriptlet: vsftpd-3.0.3-35.el8.x86\_64 1/1

Verifying : vsftpd-3.0.3-35.el8.x86\_64 1/1

Installed products updated.

Installed:

vsftpd-3.0.3-35.el8.x86\_64

Complete!

**[root@localhost ~]# ip a s**

1: lo: <LOOPBACK,UP,LOWER\_UP> mtu 65536 qdisc noqueue state UNKNOWN group defaul t qlen 1000

link/loopback 00:00:00:00:00:00 brd 00:00:00:00:00:00

inet 127.0.0.1/8 scope host lo

valid\_lft forever preferred\_lft forever

inet6 ::1/128 scope host

valid\_lft forever preferred\_lft forever

2: enp0s3: <BROADCAST,MULTICAST,UP,LOWER\_UP> mtu 1500 qdisc fq\_codel state UP gr oup default qlen 1000

link/ether 08:00:27:2b:8e:42 brd ff:ff:ff:ff:ff:ff

inet 192.168.0.103/24 brd 192.168.1.255 scope global dynamic noprefixroute en p0s3

valid\_lft 40285sec preferred\_lft 40285sec

inet6 fe80::a00:27ff:fe2b:8e42/64 scope link noprefixroute

valid\_lft forever preferred\_lft forever

3: virbr0: <NO-CARRIER,BROADCAST,MULTICAST,UP> mtu 1500 qdisc noqueue state DOWN group default qlen 1000

link/ether 52:54:00:15:a6:25 brd ff:ff:ff:ff:ff:ff

inet 192.168.122.1/24 brd 192.168.122.255 scope global virbr0

valid\_lft forever preferred\_lft forever

**[root@localhost ~]# systemctl restart httpd.service**

**[root@localhost ~]# cat /etc/httpd/conf/httpd.conf**

#

# This is the main Apache HTTP server configuration file. It contains the

# configuration directives that give the server its instructions.

# See <URL:http://httpd.apache.org/docs/2.4/> for detailed information.

# In particular, see

# <URL:http://httpd.apache.org/docs/2.4/mod/directives.html>

# for a discussion of each configuration directive.

#

# See the httpd.conf(5) man page for more information on this configuration,

# and httpd.service(8) on using and configuring the httpd service.

#

# Do NOT simply read the instructions in here without understanding

# what they do. They're here only as hints or reminders. If you are unsure

# consult the online docs. You have been warned.

#

# Configuration and logfile names: If the filenames you specify for many

# of the server's control files begin with "/" (or "drive:/" for Win32), the

# server will use that explicit path. If the filenames do \*not\* begin

# with "/", the value of ServerRoot is prepended -- so 'log/access\_log'

# with ServerRoot set to '/www' will be interpreted by the

# server as '/www/log/access\_log', where as '/log/access\_log' will be

# interpreted as '/log/access\_log'.

#

# ServerRoot: The top of the directory tree under which the server's

# configuration, error, and log files are kept.

#

# Do not add a slash at the end of the directory path. If you point

# ServerRoot at a non-local disk, be sure to specify a local disk on the

# Mutex directive, if file-based mutexes are used. If you wish to share the

# same ServerRoot for multiple httpd daemons, you will need to change at

# least PidFile.

#

ServerRoot "/etc/httpd"

#

# Listen: Allows you to bind Apache to specific IP addresses and/or

# ports, instead of the default. See also the <VirtualHost>

# directive.

#

# Change this to Listen on specific IP addresses as shown below to

# prevent Apache from glomming onto all bound IP addresses.

#

#Listen 12.34.56.78:80

Listen 80

#

# Dynamic Shared Object (DSO) Support

#

# To be able to use the functionality of a module which was built as a DSO you

# have to place corresponding `LoadModule' lines at this location so the

# directives contained in it are actually available \_before\_ they are used.

# Statically compiled modules (those listed by `httpd -l') do not need

# to be loaded here.

#

# Example:

# LoadModule foo\_module modules/mod\_foo.so

#

Include conf.modules.d/\*.conf

#

# If you wish httpd to run as a different user or group, you must run

# httpd as root initially and it will switch.

#

# User/Group: The name (or #number) of the user/group to run httpd as.

# It is usually good practice to create a dedicated user and group for

# running httpd, as with most system services.

#

User apache

Group apache

# 'Main' server configuration

#

# The directives in this section set up the values used by the 'main'

# server, which responds to any requests that aren't handled by a

# <VirtualHost> definition. These values also provide defaults for

# any <VirtualHost> containers you may define later in the file.

#

# All of these directives may appear inside <VirtualHost> containers,

# in which case these default settings will be overridden for the

# virtual host being defined.

#

#

# ServerAdmin: Your address, where problems with the server should be

# e-mailed. This address appears on some server-generated pages, such

# as error documents. e.g. admin@your-domain.com

#

ServerAdmin root@localhost

#

# ServerName gives the name and port that the server uses to identify itself.

# This can often be determined automatically, but we recommend you specify

# it explicitly to prevent problems during startup.

#

# If your host doesn't have a registered DNS name, enter its IP address here.

#

#ServerName www.example.com:80

#

# Deny access to the entirety of your server's filesystem. You must

# explicitly permit access to web content directories in other

# <Directory> blocks below.

#

<Directory />

AllowOverride none

Require all denied

</Directory>

#

# Note that from this point forward you must specifically allow

# particular features to be enabled - so if something's not working as

# you might expect, make sure that you have specifically enabled it

# below.

#

#

# DocumentRoot: The directory out of which you will serve your

# documents. By default, all requests are taken from this directory, but

# symbolic links and aliases may be used to point to other locations.

#

DocumentRoot "/local\_repo/"

#

# Relax access to content within /var/www.

#

<Directory "/local\_repo/">

Options All Indexes FollowSymLinks

AllowOverride None

# Allow open access:

Require all granted

</Directory>

# Further relax access to the default document root:

<Directory "/var/www/html">

#

# Possible values for the Options directive are "None", "All",

# or any combination of:

# Indexes Includes FollowSymLinks SymLinksifOwnerMatch ExecCGI MultiViews

#

# Note that "MultiViews" must be named \*explicitly\* --- "Options All"

# doesn't give it to you.

#

# The Options directive is both complicated and important. Please see

# http://httpd.apache.org/docs/2.4/mod/core.html#options

# for more information.

#

Options Indexes FollowSymLinks

#

# AllowOverride controls what directives may be placed in .htaccess files.

# It can be "All", "None", or any combination of the keywords:

# Options FileInfo AuthConfig Limit

#

AllowOverride None

#

# Controls who can get stuff from this server.

#

Require all granted

</Directory>

#

# DirectoryIndex: sets the file that Apache will serve if a directory

# is requested.

#

<IfModule dir\_module>

DirectoryIndex index.html

</IfModule>

#

# The following lines prevent .htaccess and .htpasswd files from being

# viewed by Web clients.

#

<Files ".ht\*">

Require all denied

</Files>

#

# ErrorLog: The location of the error log file.

# If you do not specify an ErrorLog directive within a <VirtualHost>

# container, error messages relating to that virtual host will be

# logged here. If you \*do\* define an error logfile for a <VirtualHost>

# container, that host's errors will be logged there and not here.

#

ErrorLog "logs/error\_log"

#

# LogLevel: Control the number of messages logged to the error\_log.

# Possible values include: debug, info, notice, warn, error, crit,

# alert, emerg.

#

LogLevel warn

<IfModule log\_config\_module>

#

# The following directives define some format nicknames for use with

# a CustomLog directive (see below).

#

LogFormat "%h %l %u %t \"%r\" %>s %b \"%{Referer}i\" \"%{User-Agent}i\"" combined

LogFormat "%h %l %u %t \"%r\" %>s %b" common

<IfModule logio\_module>

# You need to enable mod\_logio.c to use %I and %O

LogFormat "%h %l %u %t \"%r\" %>s %b \"%{Referer}i\" \"%{User-Agent}i\" %I %O" combinedio

</IfModule>

#

# The location and format of the access logfile (Common Logfile Format).

# If you do not define any access logfiles within a <VirtualHost>

# container, they will be logged here. Contrariwise, if you \*do\*

# define per-<VirtualHost> access logfiles, transactions will be

# logged therein and \*not\* in this file.

#

#CustomLog "logs/access\_log" common

#

# If you prefer a logfile with access, agent, and referer information

# (Combined Logfile Format) you can use the following directive.

#

CustomLog "logs/access\_log" combined

</IfModule>

<IfModule alias\_module>

#

# Redirect: Allows you to tell clients about documents that used to

# exist in your server's namespace, but do not anymore. The client

# will make a new request for the document at its new location.

# Example:

# Redirect permanent /foo http://www.example.com/bar

#

# Alias: Maps web paths into filesystem paths and is used to

# access content that does not live under the DocumentRoot.

# Example:

# Alias /webpath /full/filesystem/path

#

# If you include a trailing / on /webpath then the server will

# require it to be present in the URL. You will also likely

# need to provide a <Directory> section to allow access to

# the filesystem path.

#

# ScriptAlias: This controls which directories contain server scripts.

# ScriptAliases are essentially the same as Aliases, except that

# documents in the target directory are treated as applications and

# run by the server when requested rather than as documents sent to the

# client. The same rules about trailing "/" apply to ScriptAlias

# directives as to Alias.

#

ScriptAlias /cgi-bin/ "/var/www/cgi-bin/"

</IfModule>

#

# "/var/www/cgi-bin" should be changed to whatever your ScriptAliased

# CGI directory exists, if you have that configured.

#

<Directory "/var/www/cgi-bin">

AllowOverride None

Options None

Require all granted

</Directory>

<IfModule mime\_module>

#

# TypesConfig points to the file containing the list of mappings from

# filename extension to MIME-type.

#

TypesConfig /etc/mime.types

#

# AddType allows you to add to or override the MIME configuration

# file specified in TypesConfig for specific file types.

#

#AddType application/x-gzip .tgz

#

# AddEncoding allows you to have certain browsers uncompress

# information on the fly. Note: Not all browsers support this.

#

#AddEncoding x-compress .Z

#AddEncoding x-gzip .gz .tgz

#

# If the AddEncoding directives above are commented-out, then you

# probably should define those extensions to indicate media types:

#

AddType application/x-compress .Z

AddType application/x-gzip .gz .tgz

#

# AddHandler allows you to map certain file extensions to "handlers":

# actions unrelated to filetype. These can be either built into the server

# or added with the Action directive (see below)

#

# To use CGI scripts outside of ScriptAliased directories:

# (You will also need to add "ExecCGI" to the "Options" directive.)

#

#AddHandler cgi-script .cgi

# For type maps (negotiated resources):

#AddHandler type-map var

#

# Filters allow you to process content before it is sent to the client.

#

# To parse .shtml files for server-side includes (SSI):

# (You will also need to add "Includes" to the "Options" directive.)

#

AddType text/html .shtml

AddOutputFilter INCLUDES .shtml

</IfModule>

#

# Specify a default charset for all content served; this enables

# interpretation of all content as UTF-8 by default. To use the

# default browser choice (ISO-8859-1), or to allow the META tags

# in HTML content to override this choice, comment out this

# directive:

#

AddDefaultCharset UTF-8

<IfModule mime\_magic\_module>

#

# The mod\_mime\_magic module allows the server to use various hints from the

# contents of the file itself to determine its type. The MIMEMagicFile

# directive tells the module where the hint definitions are located.

#

MIMEMagicFile conf/magic

</IfModule>

#

# Customizable error responses come in three flavors:

# 1) plain text 2) local redirects 3) external redirects

#

# Some examples:

#ErrorDocument 500 "The server made a boo boo."

#ErrorDocument 404 /missing.html

#ErrorDocument 404 "/cgi-bin/missing\_handler.pl"

#ErrorDocument 402 http://www.example.com/subscription\_info.html

#

#

# EnableMMAP and EnableSendfile: On systems that support it,

# memory-mapping or the sendfile syscall may be used to deliver

# files. This usually improves server performance, but must

# be turned off when serving from networked-mounted

# filesystems or if support for these functions is otherwise

# broken on your system.

# Defaults if commented: EnableMMAP On, EnableSendfile Off

#

#EnableMMAP off

EnableSendfile on

# Supplemental configuration

#

# Load config files in the "/etc/httpd/conf.d" directory, if any.

IncludeOptional conf.d/\*.conf

**[root@localhost ~]# cat /etc/yum.repos.d/local-dvd.repo**

[AppStream]

name=AppStream

baseurl=file:///local\_repo/AppStream/

gpgcheck=0

enabled=1

[BaseOS]

name=BaseOS

baseurl=file:///local\_repo/BaseOS/

gpgcheck=0

enabled=1

**Take the ip of machine and open in the web browser**

**IP**

****

**----------------------------------------------------client side** ------------------------------------------

login as: root

root@192.168.1.20's password:

Activate the web console with: systemctl enable --now cockpit.socket

Register this system with Red Hat Insights: insights-client --register

Create an account or view all your systems at https://red.ht/insights-dashboard

Last login: Tue Nov 8 15:14:55 2022

**[root@servera ~]# lsblk**

NAME MAJ:MIN RM SIZE RO TYPE MOUNTPOINT

sda 8:0 0 20G 0 disk

├─sda1 8:1 0 1G 0 part /boot

└─sda2 8:2 0 19G 0 part

├─rhel-root 253:0 0 17G 0 lvm /

└─rhel-swap 253:1 0 2G 0 lvm

sr0 11:0 1 10.7G 0 rom /run/media/root/RHEL-8-6-0-BaseOS-x86\_64

**[root@servera ~]# df -hT**

Filesystem Type Size Used Avail Use% Mounted on

devtmpfs devtmpfs 877M 0 877M 0% /dev

tmpfs tmpfs 907M 0 907M 0% /dev/shm

tmpfs tmpfs 907M 9.3M 898M 2% /run

tmpfs tmpfs 907M 0 907M 0% /sys/fs/cgroup

/dev/mapper/rhel-root xfs 17G 6.2G 11G 37% /

/dev/sda1 xfs 1014M 254M 761M 26% /boot

tmpfs tmpfs 182M 28K 182M 1% /run/user/0

/dev/sr0 iso9660 11G 11G 0 100% /run/media/root/RHEL-8-6-0 -BaseOS-x86\_64

**[root@servera ~]# yum repolist**

Updating Subscription Management repositories.

Unable to read consumer identity

This system is not registered with an entitlement server. You can use subscripti on-manager to register.

repo id repo name

App AppStream

BaseOS BaseOS

**[root@servera ~]# yum repolist all**

Updating Subscription Management repositories.

Unable to read consumer identity

This system is not registered with an entitlement server. You can use subscripti on-manager to register.

repo id repo name status

App AppStream enabled

BaseOS BaseOS enabled

docker-ce-nightly Docker CE Nightly - x86\_64 disabled

docker-ce-nightly-debuginfo Docker CE Nightly - Debuginfo x86\_64 disabled

docker-ce-nightly-source Docker CE Nightly - Sources disabled

docker-ce-stable Docker CE Stable - x86\_64 disabled

docker-ce-stable-debuginfo Docker CE Stable - Debuginfo x86\_64 disabled

docker-ce-stable-source Docker CE Stable - Sources disabled

docker-ce-test Docker CE Test - x86\_64 disabled

docker-ce-test-debuginfo Docker CE Test - Debuginfo x86\_64 disabled

docker-ce-test-source Docker CE Test - Sources disabled

[root@servera ~]# vim /etc/yum.repos.d/rhel.repo

[root@servera ~]# yum install httpd -y

Updating Subscription Management repositories. mirrors were tried

**[root@servera ~]# vim /etc/yum.repos.d/rhel.repo**

**[root@servera ~]# cat /etc/yum.repos.d/rhel.repo**

[App]

name=AppStream

baseurl=http://192.168.0.103

gpgcheck=0

enabled=1

[BaseOS]

name=BaseOS

baseurl=http://192.168.0.103

gpgcheck=0

enabled=1

**[root@servera ~]# yum repolist**

Updating Subscription Management repositories.

Unable to read consumer identity

This system is not registered with an entitlement server. You can use subscripti on-manager to register.

repo id repo name

App AppStream

BaseOS BaseOS

**[root@servera ~]# yum repolist all**

Updating Subscription Management repositories.

Unable to read consumer identity

This system is not registered with an entitlement server. You can use subscripti on-manager to register.

repo id repo name status

App AppStream enabled

BaseOS BaseOS enabled

docker-ce-nightly Docker CE Nightly - x86\_64 disabled

docker-ce-nightly-debuginfo Docker CE Nightly - Debuginfo x86\_64 disabled

docker-ce-nightly-source Docker CE Nightly - Sources disabled

docker-ce-stable Docker CE Stable - x86\_64 disabled

docker-ce-stable-debuginfo Docker CE Stable - Debuginfo x86\_64 disabled

docker-ce-stable-source Docker CE Stable - Sources disabled

docker-ce-test Docker CE Test - x86\_64 disabled

docker-ce-test-debuginfo Docker CE Test - Debuginfo x86\_64 disabled

docker-ce-test-source Docker CE Test - Sources disabled

[root@servera ~]# yum install httpd -y

Updating Subscription Management repositories.

Unable to read consumer identity

This system is not registered with an entitlement server. You can use subscripti on-manager to register.

AppStream 30 MB/s | 9.6 MB 00:00

BaseOS 55 MB/s | 9.6 MB 00:00

Last metadata expiration check: 0:00:04 ago on Tue 08 Nov 2022 03:25:56 PM EST.

Dependencies resolved.

================================================================================

Package Arch Version Repo

Size

================================================================================

Installing:

httpd x86\_64 2.4.37-47.module+el8.6.0+14529+083145da.1 App 1.4 M

Installing dependencies:

apr x86\_64 1.6.3-12.el8 App 130 k

apr-util x86\_64 1.6.1-6.el8 App 105 k

httpd-filesystem noarch 2.4.37-47.module+el8.6.0+14529+083145da.1 App 41 k

httpd-tools x86\_64 2.4.37-47.module+el8.6.0+14529+083145da.1 App 108 k

mod\_http2 x86\_64 1.15.7-5.module+el8.6.0+13996+01710940 App 155 k

redhat-logos-httpd noarch 84.5-1.el8 App 29 k

Installing weak dependencies:

apr-util-bdb x86\_64 1.6.1-6.el8 App 25 k

apr-util-openssl x86\_64 1.6.1-6.el8 App 27 k

Enabling module streams:

httpd 2.4

Transaction Summary

================================================================================

Install 9 Packages

Total download size: 2.0 M

Installed size: 5.4 M

Downloading Packages:

(1/9): apr-util-bdb-1.6.1-6.el8.x86\_64.rpm 4.2 MB/s | 25 kB 00:00

(2/9): apr-util-1.6.1-6.el8.x86\_64.rpm 9.1 MB/s | 105 kB 00:00

(3/9): apr-util-openssl-1.6.1-6.el8.x86\_64.rpm 3.8 MB/s | 27 kB 00:00

(4/9): apr-1.6.3-12.el8.x86\_64.rpm 6.6 MB/s | 130 kB 00:00

(5/9): httpd-filesystem-2.4.37-47.module+el8.6. 4.7 MB/s | 41 kB 00:00

(6/9): httpd-tools-2.4.37-47.module+el8.6.0+145 9.5 MB/s | 108 kB 00:00

(7/9): redhat-logos-httpd-84.5-1.el8.noarch.rpm 7.1 MB/s | 29 kB 00:00

(8/9): mod\_http2-1.15.7-5.module+el8.6.0+13996+ 10 MB/s | 155 kB 00:00

(9/9): httpd-2.4.37-47.module+el8.6.0+14529+083 27 MB/s | 1.4 MB 00:00

--------------------------------------------------------------------------------

Total 29 MB/s | 2.0 MB 00:00

Running transaction check

Transaction check succeeded.

Running transaction test

Transaction test succeeded.

Running transaction

Preparing : 1/1

Installing : apr-1.6.3-12.el8.x86\_64 1/9

Running scriptlet: apr-1.6.3-12.el8.x86\_64 1/9

Installing : apr-util-bdb-1.6.1-6.el8.x86\_64 2/9

Installing : apr-util-openssl-1.6.1-6.el8.x86\_64 3/9

Installing : apr-util-1.6.1-6.el8.x86\_64 4/9

Running scriptlet: apr-util-1.6.1-6.el8.x86\_64 4/9

Installing : httpd-tools-2.4.37-47.module+el8.6.0+14529+083145da. 5/9

Installing : redhat-logos-httpd-84.5-1.el8.noarch 6/9

Running scriptlet: httpd-filesystem-2.4.37-47.module+el8.6.0+14529+0831 7/9

Installing : httpd-filesystem-2.4.37-47.module+el8.6.0+14529+0831 7/9

Installing : mod\_http2-1.15.7-5.module+el8.6.0+13996+01710940.x86 8/9

Installing : httpd-2.4.37-47.module+el8.6.0+14529+083145da.1.x86\_ 9/9

Running scriptlet: httpd-2.4.37-47.module+el8.6.0+14529+083145da.1.x86\_ 9/9

Verifying : apr-1.6.3-12.el8.x86\_64 1/9

Verifying : apr-util-1.6.1-6.el8.x86\_64 2/9

Verifying : apr-util-bdb-1.6.1-6.el8.x86\_64 3/9

Verifying : apr-util-openssl-1.6.1-6.el8.x86\_64 4/9

Verifying : httpd-2.4.37-47.module+el8.6.0+14529+083145da.1.x86\_ 5/9

Verifying : httpd-filesystem-2.4.37-47.module+el8.6.0+14529+0831 6/9

Verifying : httpd-tools-2.4.37-47.module+el8.6.0+14529+083145da. 7/9

Verifying : mod\_http2-1.15.7-5.module+el8.6.0+13996+01710940.x86 8/9

Verifying : redhat-logos-httpd-84.5-1.el8.noarch 9/9

Installed products updated.

Installed:

apr-1.6.3-12.el8.x86\_64

apr-util-1.6.1-6.el8.x86\_64

apr-util-bdb-1.6.1-6.el8.x86\_64

apr-util-openssl-1.6.1-6.el8.x86\_64

httpd-2.4.37-47.module+el8.6.0+14529+083145da.1.x86\_64

httpd-filesystem-2.4.37-47.module+el8.6.0+14529+083145da.1.noarch

httpd-tools-2.4.37-47.module+el8.6.0+14529+083145da.1.x86\_64

mod\_http2-1.15.7-5.module+el8.6.0+13996+01710940.x86\_64

redhat-logos-httpd-84.5-1.el8.noarch

Complete!

[root@servera ~]#