

RHEL9



Session 2 – 9th October 2022 Summary

- Command to check the network interface and IP Address in Linux

```
[root@localhost ~]# ifconfig
enp0s3: flags=4163<UP,BROADCAST,RUNNING,MULTICAST> mtu 1500
    inet 10.0.2.15 netmask 255.255.255.0 broadcast 10.0.2.255
    inet6 fe80::a00:27ff:fea0:bb9c prefixlen 64 scope link
    ether 08:00:27:a0:bb:9c txqueuelen 1000 (Ethernet)
    RX packets 52 bytes 5674 (5.5 KiB)
    RX errors 0 dropped 0 overruns 0 frame 0
    TX packets 105 bytes 10393 (10.1 KiB)
    TX errors 0 dropped 0 overruns 0 carrier 0 colli
```

- Command to check the size of the RAM

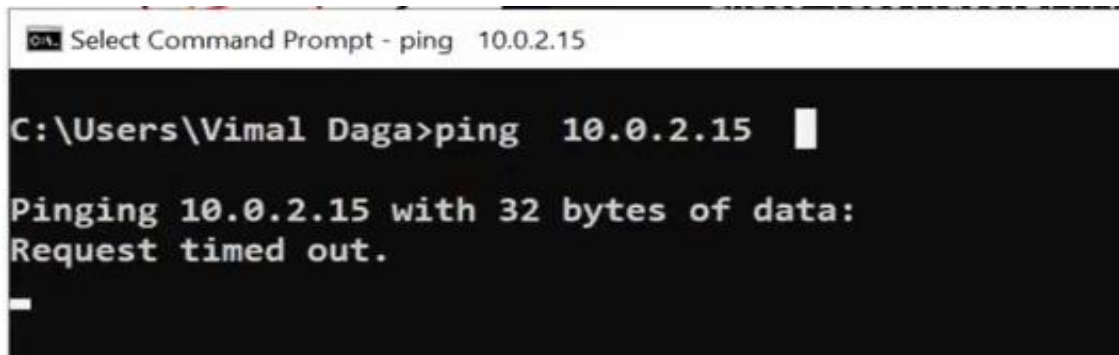
```
[root@localhost ~]# free -m
              total        used        free      shared
Mem:           7941        846        6548          24
Swap:          1023           0        1023
[root@localhost ~]#
```

- Command to check the IP Address on Windows

```
Microsoft Windows [Version 10.0.19044.2006]
(c) Microsoft Corporation. All rights reserved.

C:\Users\Vimal Daga>ipconfig
```

- Command to check the network connectivity between windows and linux



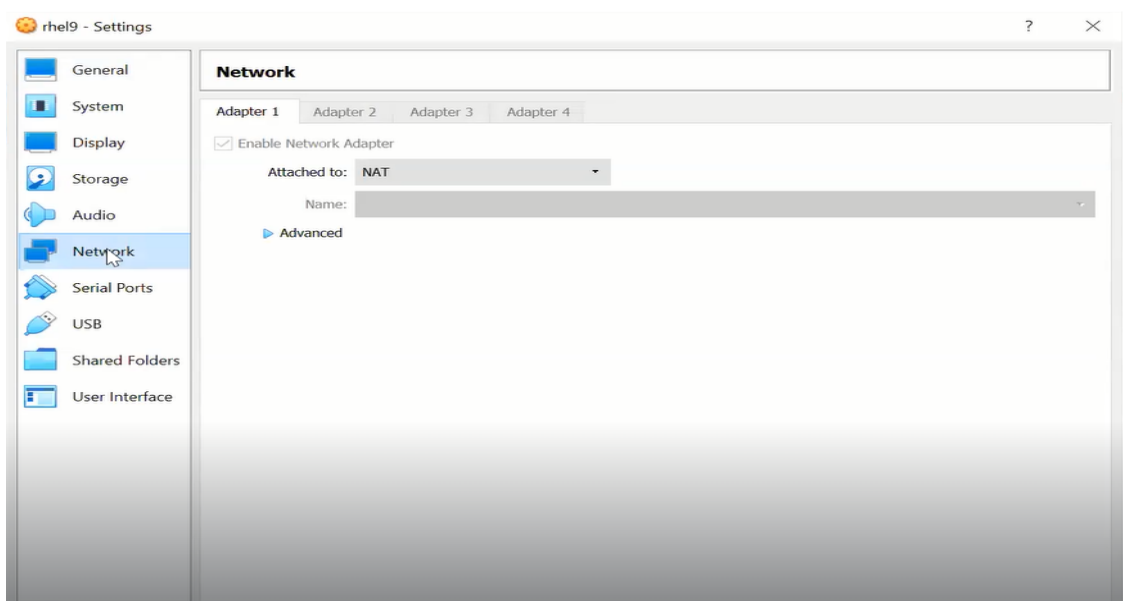
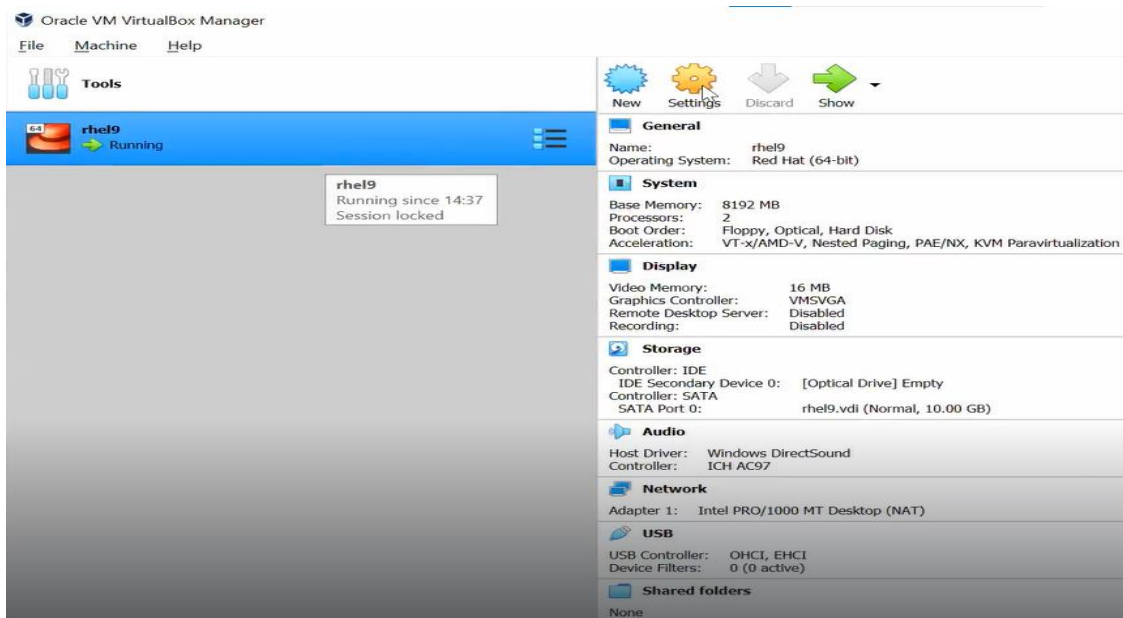
```

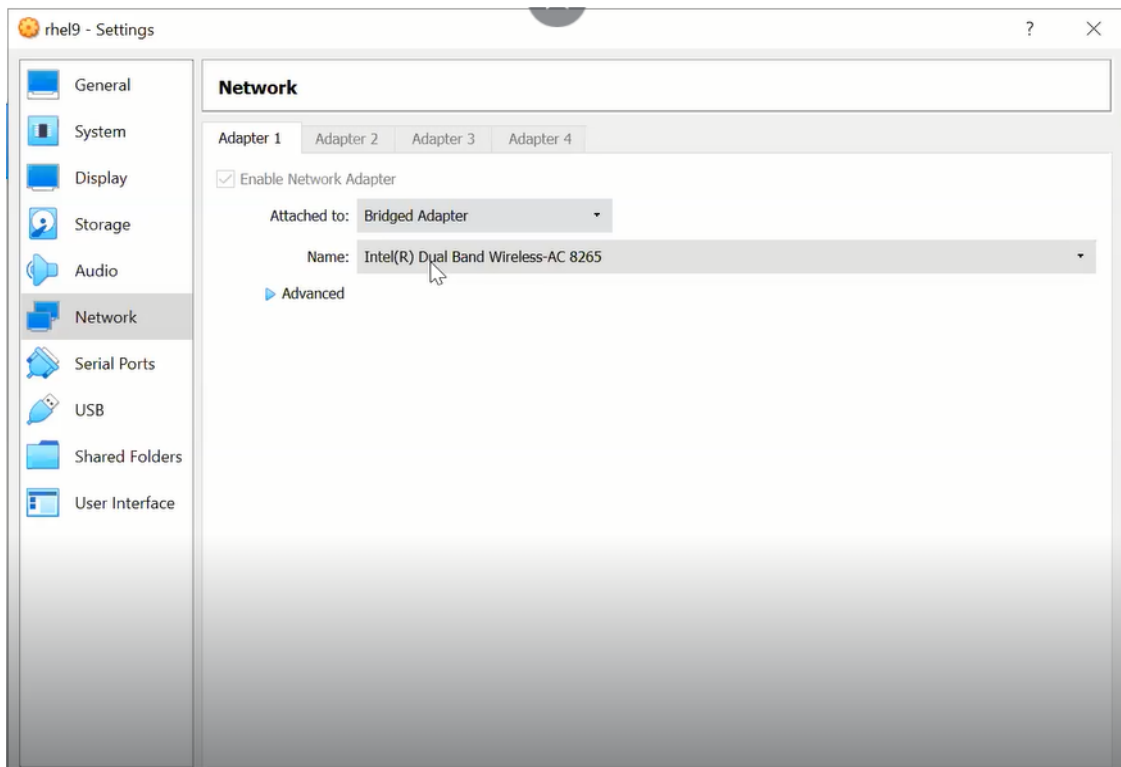
C:\Users\Vimal Daga>ping 10.0.2.15

Pinging 10.0.2.15 with 32 bytes of data:
Request timed out.

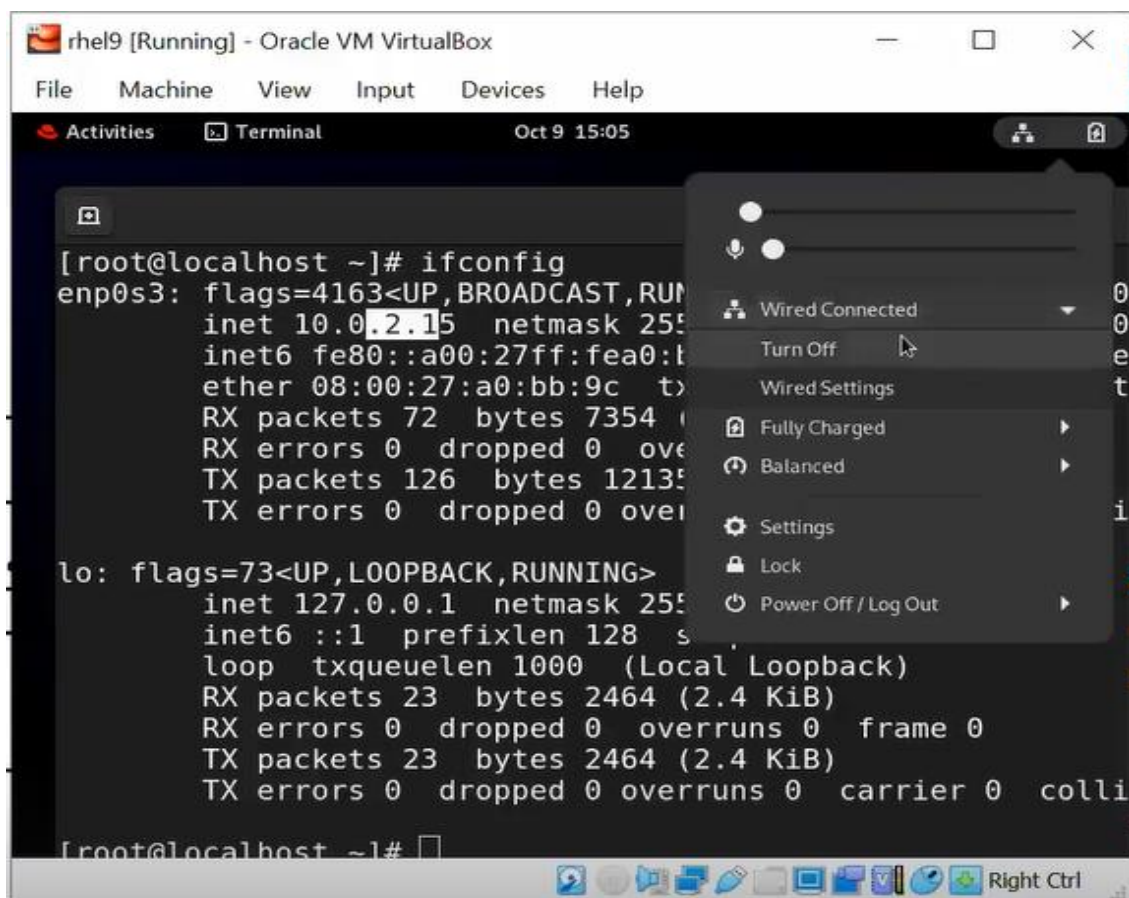
```

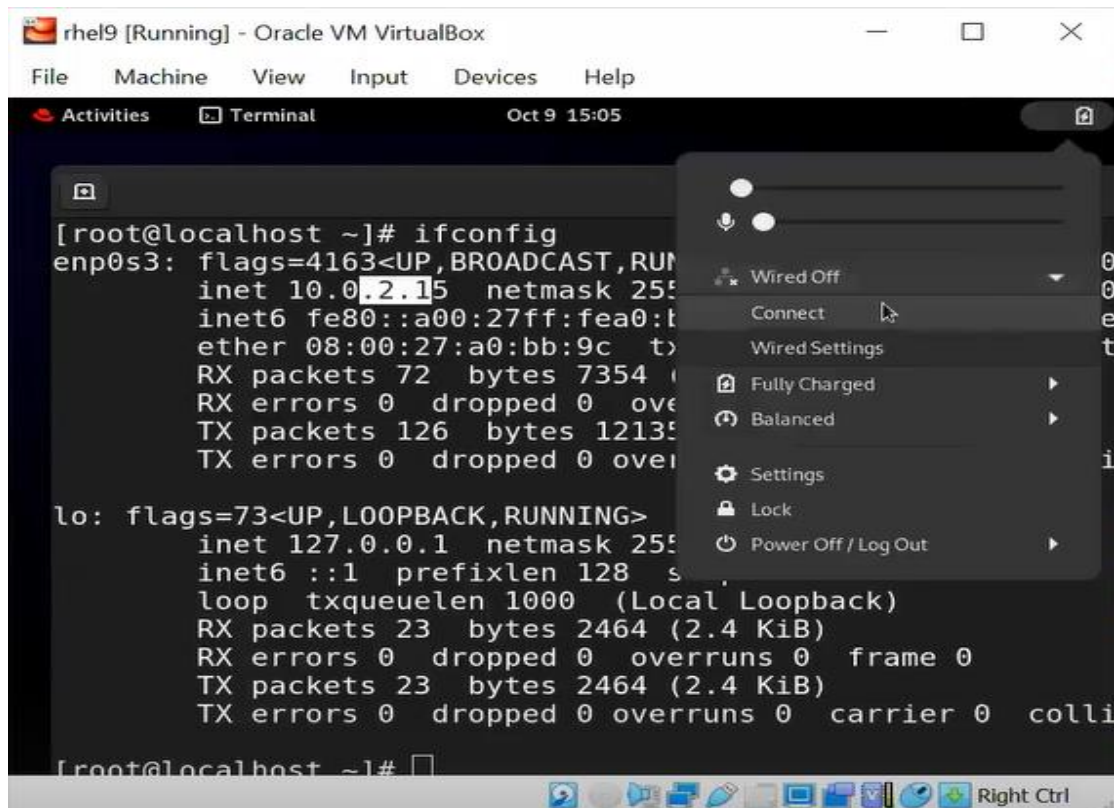
- Not able to connect because there is no common medium – for this



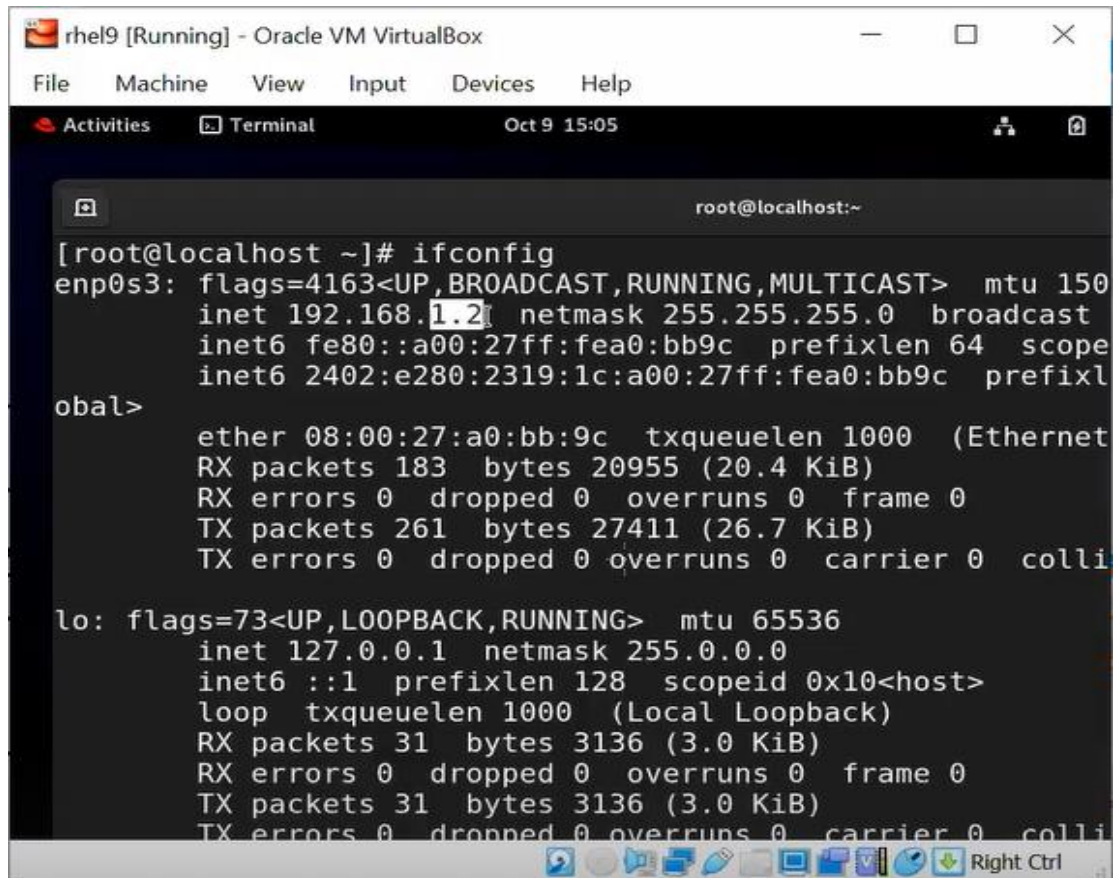


- To reload the settings – turn off and turn on the wired connection





➤ After this again check the IP Address



- Now ping with the IP Address

```
C:\Users\Vimal Daga>ping 192.168.1.2

Pinging 192.168.1.2 with 32 bytes of data:
Reply from 192.168.1.2: bytes=32 time<1ms TTL=64
Reply from 192.168.1.2: bytes=32 time=1ms TTL=64
Reply from 192.168.1.2: bytes=32 time<1ms TTL=64
```

- Command for remote login – from window to linux

```
C:\Users\Vimal Daga>ssh -l root 192.168.1.2
The authenticity of host '192.168.1.2 (192.168.1.2)' can't be established.
ECDSA key fingerprint is SHA256:F7PdcjyIrrbGYoXk6g8Mx0YfN+EQwQMu7doT3gKV3Y0.
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes
Warning: Permanently added '192.168.1.2' (ECDSA) to the list of known hosts.
root@192.168.1.2'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: Sun Oct 9 15:18:29 2022 from 192.168.1.12
[root@localhost ~]#
[root@localhost ~]#
```

- Without login to linux, we can run the commands

```
[root@localhost ~]# exit
logout
Connection to 192.168.1.2 closed.

C:\Users\Vimal Daga>
C:\Users\Vimal Daga>
C:\Users\Vimal Daga>ssh -l root 192.168.1.2 date
root@192.168.1.2's password:
Sun Oct 9 03:23:28 PM IST 2022

C:\Users\Vimal Daga>
C:\Users\Vimal Daga>
```

- From single command prompt, we can run multiple commands

```
C:\Users\Vimal Daga>
C:\Users\Vimal Daga>ssh -l root 192.168.1.2 "date;cal"
root@192.168.1.2's password:
Sun Oct  9 03:26:16 PM IST 2022
    October 2022
Su Mo Tu We Th Fr Sa
                1
 2  3  4  5  6  7  8
 9 10 11 12 13 14 15
16 17 18 19 20 21 22
23 24 25 26 27 28 29
30 31
```

- Command to check the IP Address of a particular network interface – any IP Address having 4 bytes – is a valid IP Address

```
[root@localhost ~]# ifconfig enp0s3
enp0s3: flags=4163<UP,BROADCAST,RUNNING,MULTICAST> mtu 1500
    inet 192.168.1.2 netmask 255.255.255.0 broadcast 192.168.1.255
    inet6 fe80::a00:27ff:fea0:bb9c prefixlen 64 scopeid 0x20<link>
    inet6 2402:e280:2319:1c:a00:27ff:fea0:bb9c prefixlen 64 scopeid 0x0<global>
    ether 08:00:27:a0:bb:9c txqueuelen 1000 (Ethernet)
    RX packets 23926 bytes 24744026 (23.5 MiB)
    RX errors 0 dropped 0 overruns 0 frame 0
    TX packets 13371 bytes 4218229 (4.0 MiB)
    TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0
```

- Command to change the IP Address

```
[root@localhost ~]# ifconfig enp0s3 192.168.12345
```

- Command to check local network is working

```
[root@localhost ~]# ping 8.8.8.8
PING 8.8.8.8 (8.8.8.8) 56(84) bytes of data:
64 bytes from 8.8.8.8: icmp_seq=1 ttl=60 time=28.6 ms
64 bytes from 8.8.8.8: icmp_seq=2 ttl=60 time=27.0 ms
64 bytes from 8.8.8.8: icmp_seq=3 ttl=60 time=31.4 ms
```

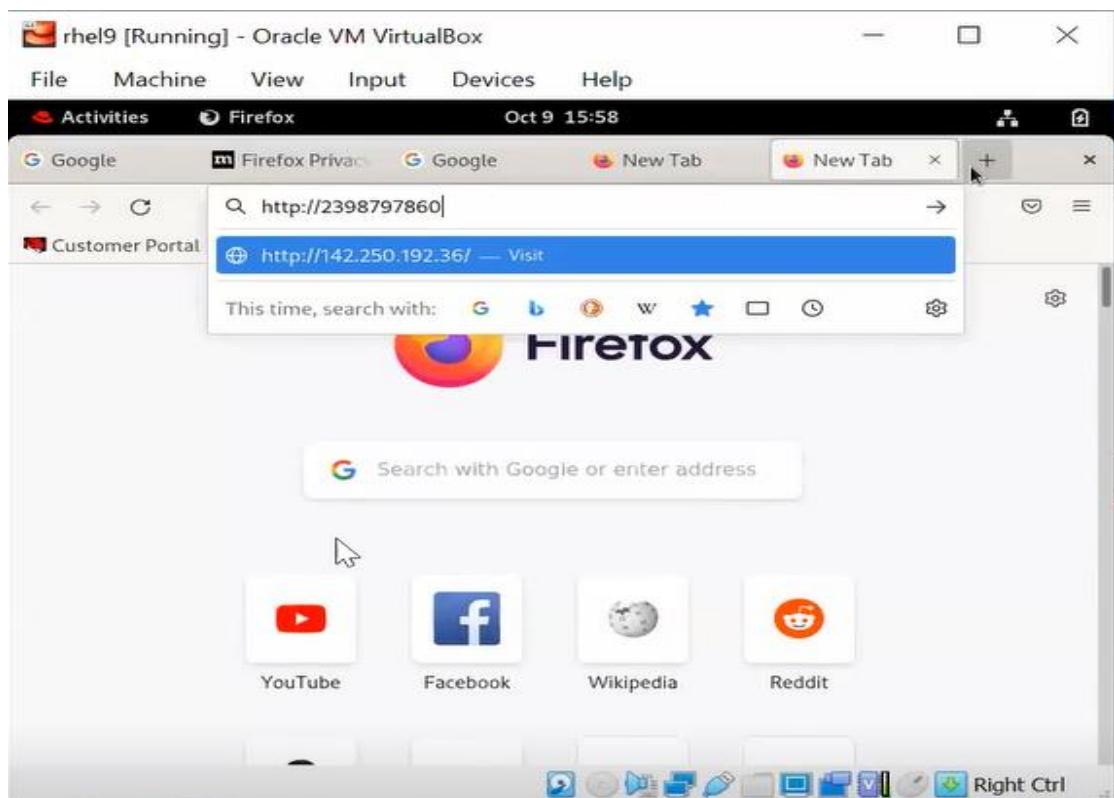
- Command to get the IP Address of a particular Website

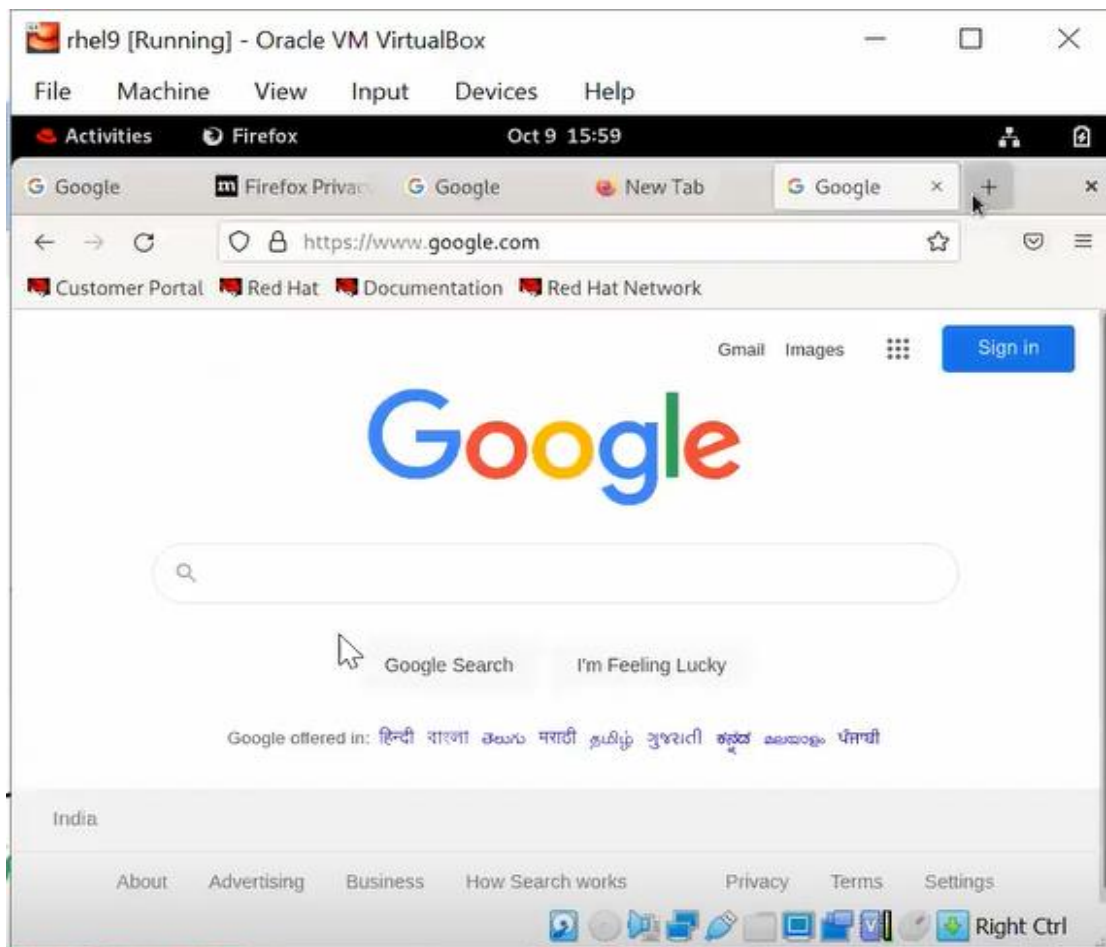
```
[root@localhost ~]# nslookup www.google.com
Server:      192.168.1.254
Address:     192.168.1.254#53

Non-authoritative answer:
Name:   www.google.com
Address: 142.250.192.36
Name:   www.google.com
Address: 2404:6800:4009:828::2004
```

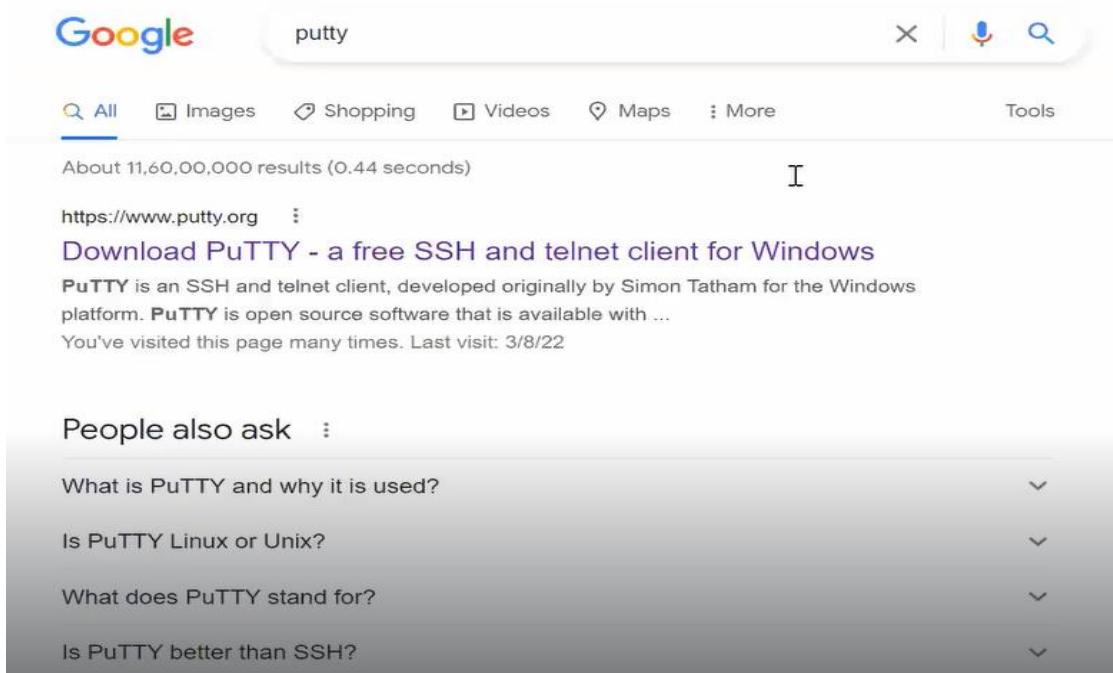
- To convert the IP Address of Google – 142.250.192.36 into one Octet

```
[root@localhost ~]# bc
bc 1.07.1
Copyright 1991-1994, 1997, 1998, 2000, 2004, 2006, 2008, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2062, 2063, 2064, 2065, 2066, 2067, 2068, 2069, 2070, 2071, 2072, 2073, 2074, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2084, 2085, 2086, 2087, 2088, 2089, 2090, 2091, 2092, 2093, 2094, 2095, 2096, 2097, 2098, 2099, 2100, 2101, 2102, 2103, 2104, 2105, 2106, 2107, 2108, 2109, 2110, 2111, 2112, 2113, 2114, 2115, 2116, 2117, 2118, 2119, 2120, 2121, 2122, 2123, 2124, 2125, 2126, 2127, 2128, 2129, 2130, 2131, 2132, 2133, 2134, 2135, 2136, 2137, 2138, 2139, 2140, 2141, 2142, 2143, 2144, 2145, 2146, 2147, 2148, 2149, 2150, 2151, 2152, 2153, 2154, 2155, 2156, 2157, 2158, 2159, 2160, 2161, 2162, 2163, 2164, 2165, 2166, 2167, 2168, 2169, 2170, 2171, 2172, 2173, 2174, 2175, 2176, 2177, 2178, 2179, 2180, 2181, 2182, 2183, 2184, 2185, 2186, 2187, 2188, 2189, 2190, 2191, 2192, 2193, 2194, 2195, 2196, 2197, 2198, 2199, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2207, 2208, 2209, 2210, 2211, 2212, 2213, 2214, 2215, 2216, 2217, 2218, 2219, 2220, 2221, 2222, 2223, 2224, 2225, 2226, 2227, 2228, 2229, 2230, 2231, 2232, 2233, 2234, 2235, 2236, 2237, 2238, 2239, 2240, 2241, 2242, 2243, 2244, 2245, 2246, 2247, 2248, 2249, 2250, 2251, 2252, 2253, 2254, 2255, 2256, 2257, 2258, 2259, 2260, 2261, 2262, 2263, 2264, 2265, 2266, 2267, 2268, 2269, 2270, 2271, 2272, 2273, 2274, 2275, 2276, 2277, 2278, 2279, 2280, 2281, 2282, 2283, 2284, 2285, 2286, 2287, 2288, 2289, 2290, 2291, 2292, 2293, 2294, 2295, 2296, 2297, 2298, 2299, 2300, 2301, 2302, 2303, 2304, 2305, 2306, 2307, 2308, 2309, 2310, 2311, 2312, 2313, 2314, 2315, 2316, 2317, 2318, 2319, 2320, 2321, 2322, 2323, 2324, 2325, 2326, 2327, 2328, 2329, 2330, 2331, 2332, 2333, 2334, 2335, 2336, 2337, 2338, 2339, 2340, 2341, 2342, 2343, 2344, 2345, 2346, 2347, 2348, 2349, 2350, 2351, 2352, 2353, 2354, 2355, 2356, 2357, 2358, 2359, 2360, 2361, 2362, 2363, 2364, 2365, 2366, 2367, 2368, 2369, 2370, 2371, 2372, 2373, 2374, 2375, 2376, 2377, 2378, 2379, 2380, 2381, 2382, 2383, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2396, 2397, 2398, 2399, 2400, 2401, 2402, 2403, 2404, 2405, 2406, 2407, 2408, 2409, 2410, 2411, 2412, 2413, 2414, 2415, 2416, 2417, 2418, 2419, 2420, 2421, 2422, 2423, 2424, 2425, 2426, 2427, 2428, 2429, 2430, 2431, 2432, 2433, 2434, 2435, 2436, 2437, 2438, 2439, 2440, 2441, 2442, 2443, 2444, 2445, 2446, 2447, 2448, 2449, 2450, 2451, 2452, 2453, 2454, 2455, 2456, 2457, 2458, 2459, 2460, 2461, 2462, 2463, 2464, 2465, 2466, 2467, 2468, 2469, 2470, 2471, 2472, 2473, 2474, 2475, 2476, 2477, 2478, 2479, 2480, 2481, 2482, 2483, 2484, 2485, 2486, 2487, 2488, 2489, 2490, 2491, 2492, 2493, 2494, 2495, 2496, 2497, 2498, 2499, 2500, 2501, 2502, 2503, 2504, 2505, 2506, 2507, 2508, 2509, 2510, 2511, 2512, 2513, 2514, 2515, 2516, 2517, 2518, 2519, 2520, 2521, 2522, 2523, 2524, 2525, 2526, 2527, 2528, 2529, 2530, 2531, 2532, 2533, 2534, 2535, 2536, 2537, 2538, 2539, 2540, 2541, 2542, 2543, 2544, 2545, 2546, 2547, 2548, 2549, 2550, 2551, 2552, 2553, 2554, 2555, 2556, 2557, 2558, 2559, 2560, 2561, 2562, 2563, 2564, 2565, 2566, 2567, 2568, 2569, 2570, 2571, 2572, 2573, 2574, 2575, 2576, 2577, 2578, 2579, 2580, 2581, 2582, 2583, 2584, 2585, 2586, 2587, 2588, 2589, 2590, 2591, 2592, 2593, 2594, 2595, 2596, 2597, 2598, 2599, 2600, 2601, 2602, 2603, 2604, 2605, 2606, 2607, 2608, 2609, 2610, 2611, 2612, 2613, 2614, 2615, 2616, 2617, 2618, 2619, 2620, 2621, 2622, 2623, 2624, 2625, 2626, 2627, 2628, 2629, 2630, 2631, 2632, 2633, 2634, 2635, 2636, 2637, 2638, 2639, 2640, 2641, 2642, 2643, 2644, 2645, 2646, 2647, 2648, 2649, 2650, 2651, 2652, 2653, 2654, 2655, 2656, 2657, 2658, 2659, 2660, 2661, 2662, 2663, 2664, 2665, 2666, 2667, 2668, 2669, 2670, 2671, 2672, 2673, 2674, 2675, 2676, 2677, 2678, 2679, 2680, 2681, 26
```

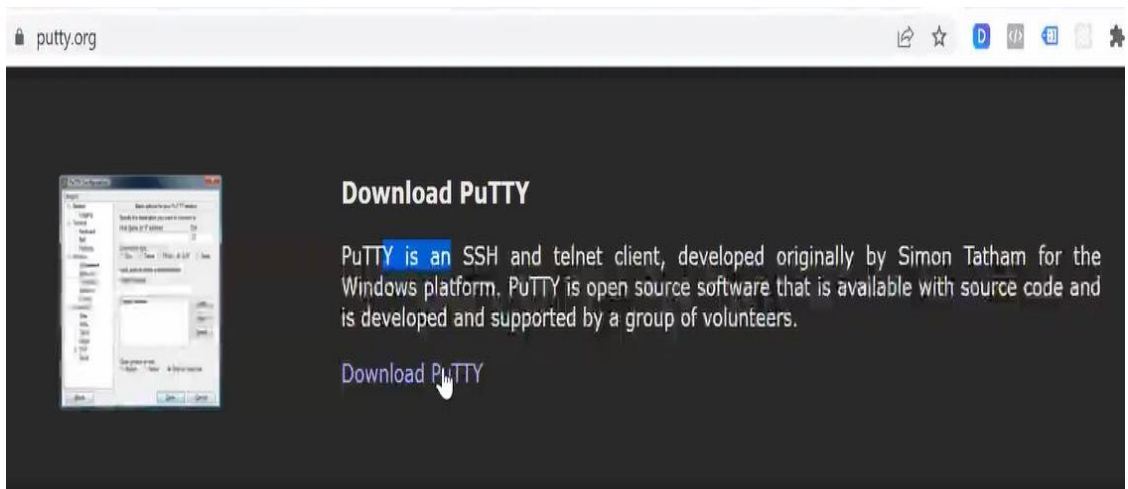




➤ Putty for Windows



putty.org



Download PuTTY

PuTTY is an SSH and telnet client, developed originally by Simon Tatham for the Windows platform. PuTTY is open source software that is available with source code and is developed and supported by a group of volunteers.

[Download PuTTY](#)

chiark.greenend.org.uk/~sgtatham/putty/latest.html

The installer packages above will provide versions of all of these (except PuTTYtel and pterm), but you can download standalone binaries one by one if you prefer.

(Not sure whether you want the 32-bit or the 64-bit version? Read the [FAQ entry](#).)

putty.exe (the SSH and Telnet client itself)

64-bit x86:	putty.exe	(signature)
64-bit Arm:	putty.exe	(signature)
32-bit x86:	putty.exe	(signature)

PuTTY Configuration

Category:

- Session
- Logging
- Terminal
 - Keyboard
 - Bell
 - Features
- Window
 - Appearance
 - Behaviour
 - Translation
- Selection
 - Colours
- Connection
 - Data
 - Proxy
 - SSH
 - Serial
 - Telnet
 - Rlogin
 - SUPDUP

Basic options for your PuTTY session

Specify the destination you want to connect to

Host Name (or IP address): Port:

Connection type:

☒ SSH ☐ Serial ☐ Other:

Load, save or delete a stored session

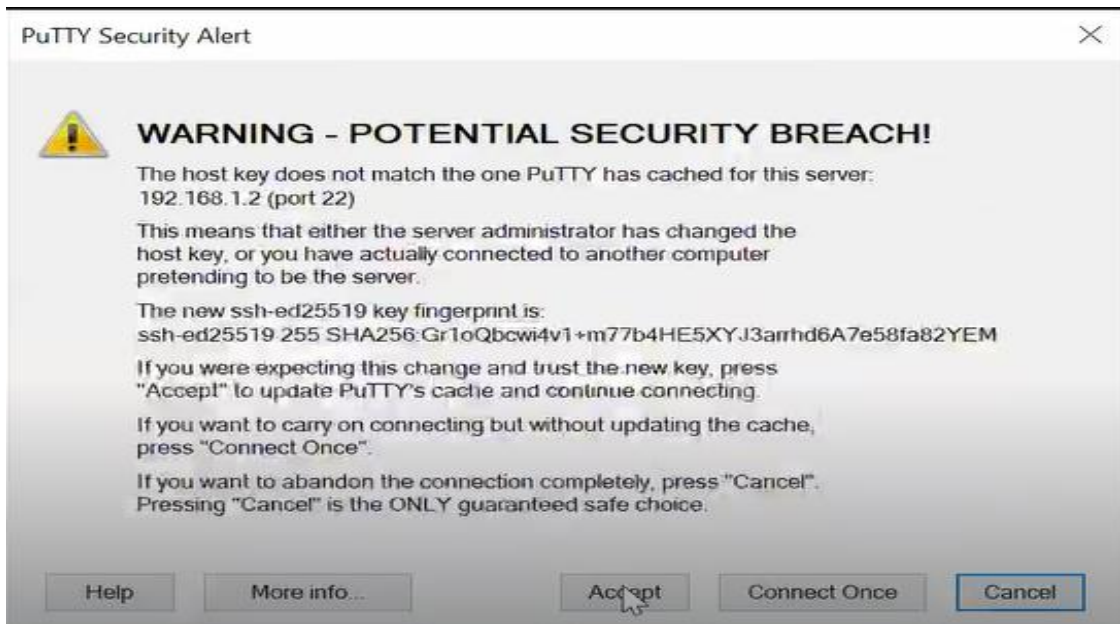
Saved Sessions

Default Settings	Load
192.168.1.3	
192.168.1.4	Save
192.168.1.5	
192.168.99.102	Delete
hadoop client	
hash13_vimal_key_vm	

Close window on exit:

☐ Always ☐ Never ☒ Only on clean exit

About Help Open Cancel



```
root@localhost:~  
login as: root  
root@192.168.1.2'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: Sun Oct 9 14:41:57 2022  
[root@localhost ~]#  
[root@localhost ~]#  
[root@localhost ~]#
```

```
root@localhost:~  
login as: root  
root@192.168.1.2'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: Sun Oct 9 15:16:31 2022  
[root@localhost ~]#  
[root@localhost ~]#  
[root@localhost ~]# firefox  
Error: no DISPLAY environment variable specified  
[root@localhost ~]# date  
Sun Oct 9 03:19:14 PM IST 2022  
[root@localhost ~]# cal 2 1234  
February 1234  
Su Mo Tu We Th Fr Sa  
1 2 3 4  
5 6 7 8 9 10 11  
12 13 14 15 16 17 18  
19 20 21 22 23 24 25  
26 27 28
```

- Command to query a software installed or not

```
[root@localhost ~]# rpm -q firefox
firefox-91.8.0-1.el9_0.x86_64
```

- Command to check the manual of the “rpm” command

```
[root@localhost ~]# man rpm
```

- Command to check detailed information of firefox

```
[root@localhost ~]# rpm -q -i firefox
Name       : firefox
Version    : 91.8.0
Release    : 1.el9_0
Architecture: x86_64
Install Date: Sat 08 Oct 2022 04:09:16 PM IST
Group      : Unspecified
Size       : 277491573
License    : MPLv1.1 or GPLv2+ or LGPLv2+
Signature  : RSA/SHA256, Wed 06 Apr 2022 11:40:08 AM IST, KeyID: 51
Source RPM : firefox-91.8.0-1.el9_0.src.rpm
Build Date : Tue 05 Apr 2022 05:43:45 PM IST
Build Host : x86-vm-56.build.eng.bos.redhat.com
Packager   : Red Hat, Inc. <http://bugzilla.redhat.com/bugzilla>
Vendor     : Red Hat, Inc.
URL        : https://www.mozilla.org/firefox/
```

- Command to query all the software installed

```
[root@localhost ~]# rpm -q -a
```

- Command to query the name of the software of a command

```
[root@localhost ~]# date
Sun Oct  9 04:26:11 PM IST 2022
[root@localhost ~]# which date
/usr/bin/date
[root@localhost ~]# rpm -q -f /usr/bin/date
coreutils-8.32-31.el9.x86_64
[root@localhost ~]#
```


- Command to list the commands supported by a firefox

```
[root@localhost ~]# man firefox
[root@localhost ~]# rpm -q -l firefox
```

```
/usr/lib64/firefox/platform.ini
/usr/lib64/firefox/plugin-container
/usr/lib64/firefox/run-mozilla.sh
/usr/lib64/mozilla/extensions/{ec8030f7-c20a-464f-9b
/usr/share/appdata/firefox.appdata.xml
/usr/share/applications/firefox.desktop
/usr/share/icons/hicolor/16x16/apps/firefox.png
/usr/share/icons/hicolor/22x22/apps/firefox.png
/usr/share/icons/hicolor/24x24/apps/firefox.png
/usr/share/icons/hicolor/256x256/apps/firefox.png
/usr/share/icons/hicolor/32x32/apps/firefox.png
/usr/share/icons/hicolor/48x48/apps/firefox.png
/usr/share/icons/hicolor/symbolic/apps/firefox-symbolic.png
/usr/share/man/man1/firefox.1.gz
/usr/share/mozilla/extensions/{ec8030f7-c20a-464f-9b
[root@localhost ~]#
```

- Command to query about the Kernel software

```
[root@localhost /]# rpm -q kernel
kernel-5.14.0-70.22.1.el9_0.x86_64
[root@localhost /]# rpm -q -i kernel
Name           : kernel
Version        : 5.14.0
Release        : 70.22.1.el9_0
Architecture   : x86_64
Install Date   : Sat 08 Oct 2022 04:09:19 PM IST
Group          : Unspecified
Size           : 0
License        : GPLv2 and Redistributable, no modifications permitted
Signature      : RSA/SHA256, Fri 05 Aug 2022 03:35:22 AM IST, key ID 35266346F30FE624: 51
Source RPM     : kernel-5.14.0-70.22.1.el9_0.src.rpm
Build Date     : Tue 02 Aug 2022 07:03:41 PM IST
Build Host     : x86-vm-08.build.eng.bos.redhat.com
Packager       : Red Hat, Inc. <http://bugzilla.redhat.com>
```


- All the devices in Linux OS is managed by /dev folder

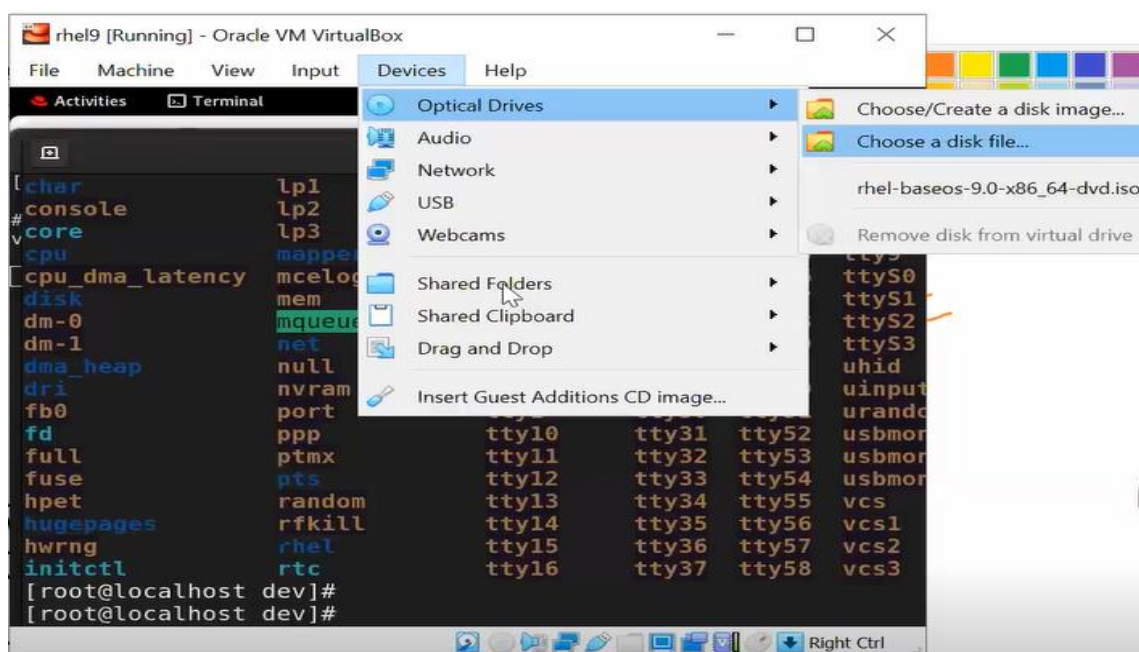
```
[root@localhost ~]# cd /dev
[root@localhost dev]# ls
```

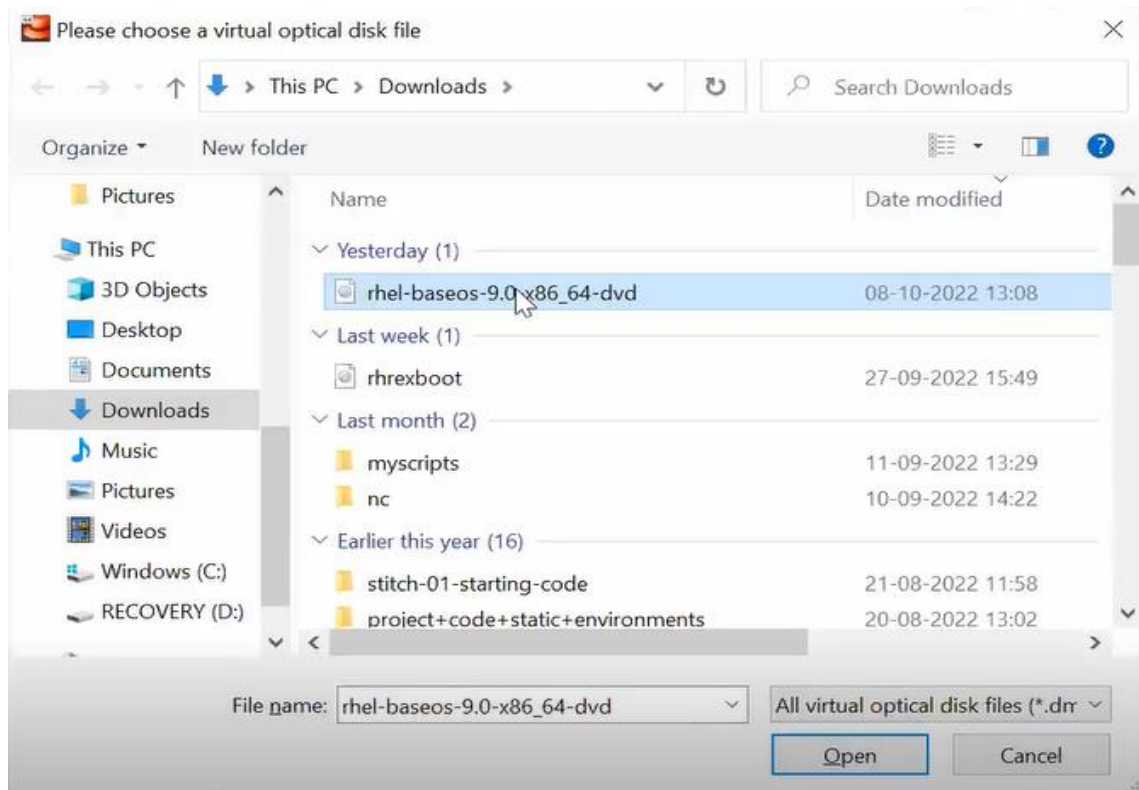
console	lp2	shm	tty22	tty43	tty7
core	lp3	snapshot	tty23	tty44	tty8
cpu	mapper	src	tty24	tty45	tty9
cpu_dma_latency	mcelog	sr0	tty25	tty46	ttyS0
disk	mem	stderr	tty26	tty47	ttyS1
dm-0	mqueue	stdin	tty27	tty48	ttyS2
dm-1	net	stdout	tty28	tty49	ttyS3
dma_heap	null	tty	tty29	tty5	uhid
dri	nvr	tty0	tty3	tty50	uinput
fb0	port	tty1	tty30	tty51	urandom
fd	ppp	tty10	tty31	tty52	usbmon
full	ptmx	tty11	tty32	tty53	usbmon
fuse	pts	tty12	tty33	tty54	usbmon
hpet	random	tty13	tty34	tty55	vcs
hugepages	rfkill	tty14	tty35	tty56	vcs1
hwrng	rhel	tty15	tty36	tty57	vcs2
initctl	rtc	tty16	tty37	tty58	vcs3

- Command which speaks for us

```
[root@localhost dev]# cd snd/
[root@localhost snd]# pwd
/dev/snd
[root@localhost snd]# ls
by-path controlC0 pcmC0D0c pcmC0D0p pcmC0D1c seq timer
[root@localhost snd]# espeak-ng
hello
```

- To share a iso file





- Command to see the path or location of a package – from CLI

```
[root@localhost dev]# df -h
Filesystem      Size  Used Avail Use% Mounted on
devtmpfs        3.9G   0    3.9G   0% /dev
tmpfs           3.9G   0    3.9G   0% /dev/shm
tmpfs           1.6G  9.2M   1.6G   1% /run
/dev/mapper/rhel-root 8.0G  4.4G   3.7G  55% /
/dev/sda1       1014M  232M   783M  23% /boot
tmpfs           795M  132K   794M   1% /run/user/0
/dev/sr0        8.0G   8.0G    0 100% /run/media/root/RHEL-9-0-0-BaseOS-x86_64

[root@localhost dev]# cd /run/media/root/RHEL-9-0-0-BaseOS-x86_64
[root@localhost RHEL-9-0-0-BaseOS-x86_64]#
[root@localhost RHEL-9-0-0-BaseOS-x86_64]#
[root@localhost RHEL-9-0-0-BaseOS-x86_64]# pwd
/run/media/root/RHEL-9-0-0-BaseOS-x86_64
[root@localhost RHEL-9-0-0-BaseOS-x86_64]#
```

```
[root@localhost RHEL-9-0-0-BaseOS-x86_64]# ls
AppStream  EULA          images        RPM-GPG-KEY-redhat-t
BaseOS     extra_files.json isolinux      RPM-GPG-KEY-redhat-r
EFI        GPL           media.repo
[root@localhost RHEL-9-0-0-BaseOS-x86_64]#
[root@localhost RHEL-9-0-0-BaseOS-x86_64]#
```

- Command to go into one of the folder – it contains multiple software

```
[root@localhost RHEL-9-0-0-BaseOS-x86_64]# cd AppStream/  
[root@localhost AppStream]# ls  
Packages repodata  
[root@localhost AppStream]# cd Packages/  
[root@localhost Packages]# ls
```

- Command to uninstall a software

```
[root@localhost Packages]# rpm -q firefox  
firefox-91.8.0-1.el9_0.x86_64  
#  
[root@localhost Packages]# rpm -e firefox  
[root@localhost Packages]# rpm -q firefox  
[package firefox is not installed  
[root@localhost Packages]# firefox  
bash: firefox: command not found...  
[root@localhost Packages]#
```

- Command to check a software contains a package – use Tab key for auto completion

```
[root@localhost Packages]# ls fire  
firefox-91.8.0-1.el9_0.x86_64.rpm  
firewall-applet-1.0.0-4.el9.noarch.rpm  
firewall-config-1.0.0-4.el9.noarch.rpm  
[root@localhost Packages]# ls firefox-91.8.0-1.el9_0.x86_6  
firefox-91.8.0-1.el9_0.x86_64.rpm  
[root@localhost Packages]#  
[root@localhost Packages]#  
[root@localhost Packages]#
```


- Command to install a software using rpm command

```
[root@localhost Packages]# rpm -i firefox-91.8.0-1.el9_0.x86_64.rpm
warning: firefox-91.8.0-1.el9_0.x86_64.rpm: Header V3 RSA/SHA256 Signature, key ID fd431d51: NOKEY
[root@localhost Packages]# rpm -q firefox
firefox-91.8.0-1.el9_0.x86_64
[root@localhost Packages]#
```

- Command to see the detailed information of command output – with `-v` (verbosity) option – shows what is happening behind the scene

```
[root@localhost Packages]# rpm -i -v firefox-91.8.0-1.el9_0.x86_64.rpm
warning: firefox-91.8.0-1.el9_0.x86_64.rpm: Header V3 RSA/SHA256 Signature, key ID fd431d51: NOKEY
Verifying packages...
Preparing packages...
firefox-91.8.0-1.el9_0.x86_64
```

- Command to see the hashing information – with `-h` option

```
[root@localhost Packages]# rpm -i -v -h firefox-91.8.0-1.el9_0.x86_64.rpm
warning: firefox-91.8.0-1.el9_0.x86_64.rpm: Header V3 RSA/SHA256 Signature, key ID fd431d51: NOKEY
Verifying... ##### [100%]
Preparing... ##### [100%]
Updating / installing...
 1:firefox-91.8.0-1.el9_0 ##### [100%]
[root@localhost Packages]#
```


- Standard command in Linux to install any software or package

```
[root@localhost Packages]# rpm -ivh firefox-91.8.0-1.el9_0.x86_64.rpm
warning: firefox-91.8.0-1.el9_0.x86_64.rpm: Header V3 RSA/SHA256 Signature, key ID fd431d51: NOKEY
Verifying...                               #####
Preparing...                               #####
Updating / installing...
   1:firefox-91.8.0-1.el9_0                 #####
[root@localhost Packages]#
```