How to Install STIG Viewer 2.17 on Red Hat Enterprise Linux (RHEL)

Red Hat Enterprise Linux Prerequisites

This guide assumes you have already installed Red Hat Enterprise Linux (RHEL) on the target device, and that you are currently signed into an account with "sudo" privileges.

- Make sure you have a Method of Burning Files to a .ISO File, on your Primary Machine (NOT YOUR TARGET MACHINE).
- Make sure your RHEL User Account is a member of the "sudoers" Group, or that you have Access to an Account which is a member of the "sudo ers" Group.
 - This means that the account you are utilizing can execute "sudo" Commands.

How to Install STIG Viewer 2.17 on Red Hat Enterprise Linux

This guide assumes you have already completed the "Red Hat Enterprise Linux Prerequisites" Portion of the Guide, and that you are currently signed into an account with "sudo" privileges.

- 1. STIG Viewer 2.17 (or the Latest Release of STIG Viewer) can be found here: https://public.cyber.mil/stigs/downloads/
 - a. To Download it, in the "Search:" Box Type "STIG Viewer", and Click on "STIG Viewer 2.17-Linux" (or the Latest Release of STIG Viewer).
- Once you have Downloaded the Latest Release of STIG Viewer, you need to extract the "U_STIGViewer_2-17_Linux.zip" File, to a Folder called. "U STIGViewer 2-17 Linux".
- Once you have Extracted the STIG Viewer Files to a Folder, you need to Burn the "U_STIGViewer_2-17_Linux" (or the Latest Release of STIG Viewer), to an .ISO File.
 - a. If you are using AnyBurn, you would choose the option "Create image file from files/folders".
 - b. Click "Add +", Navigate to where you Created the "U_STIGViewer_2-17_Linux" Folder, Click on the Folder, and Click "Add".
 - c. Click "Next >", Click the Folder Icon at the Top Right, Navigate to where you want to Save the .ISO File to, Type "U_STIGViewer_2-17_Linux.iso" for the "File name:", and Click "Save".
 - d. Click "Create Now", and when it has Finished Creating the .ISO File it will say, "Creating image file finished successfully." in the "Mes sage" Section.
 - e. Now that the .ISO File has been Created, Navigate to where you Saved the .ISO File to.
 - i. If it is a Standalone Red Hat Enterprise Linux: Copy the "U_STIGViewer_2-17_Linux.iso" to an External Drive, and Insert the External Drive into the RHEL Machine.
 - ii. If it is a Red Hat Enterprise Linux VM: Mount the "U_STIGViewer_2-17_Linux.iso" in the VM Manager to your Virtual Machine.
 - 1. For VMWare: Click on your Red Hat Enterprise Linux Virtual Machine, and Click on "Edit virtual machine settings".
 - a. Click on "Add...", Click on "CD/DVD Drive", and Click "Finish".
 - b. Click on "New CD/DVD (SATA)", Click on "Use ISO image file:", and Click "Browse...".
 - c. Navigate to where you Stored your "U_STIGViewer_2-17_Linux.iso" File, and Click on it, and Click "Open".
 - d. Check the Box that says "Connected", and then Click "OK".
 - 2. For VirtualBox: Click on your Red Hat Enterprise Linux Virtual Machine, and Click on "Settings".
 - a. Click on "Storage", Click on "Controller: IDE", Click on Lick on Optical Drive", and Click on "Add".
 - b. Navigate to where you Stored your "U_STIGViewer_2-17_Linux.iso" File, and Click on it, and Click "Open".
- c. Click the Box that says "Choose" at the Bottom Right-Hand Corner, and then Click "OK".

 4. Open the "Files" Application, and make sure that the "U_STIGViewer_2-17_Linux.iso" Folder shows up in the File System.
 - a. It will Appear as a CD, followed by the date you created the .ISO File, on the Left Side.



5. Once you have verified that it is there, Open the "Terminal" Application, Type the Command "Isblk", and Press "Enter".

a. Look for the "MOUNTPOINT" associated with the CD Drive that the File is attached to (The "SIZE" should be about "151.6M", if the "U_S TIGViewer_2-17_Linux" is the only Folder on there).

```
[sandbox@localhost Desktop]$ lsblk
            MAJ:MIN RM
                          SIZE RO TYPE MOUNTPOINT
NAME
sr0
             11:0
                      1
                         1024M
                                  rom
                                0
sr1
             11:1
                      1
                           68K
                                        /run/media/sandbox/07 21 2023
                                0
                                  rom
             11:2
                                        /share/repo/yum.repos.d
sr2
                      1
                           64K
                                0
                                  rom
             11:3
                         89.1G
                                        /share/repo/Media
sr3
                                0 rom
             11:4
                         23.1G
                                        /share/repo/Linux
sr4
                                0 rom
sr5
             11:5
                      1 151.6M
                                0 rom
                                        /run/media/sandbox/07 28 2023
                          150G
nvme0n1
            259:0
                      0
                                0 disk
 -nvme0n1p1 259:1
                          300M
                                0 part /boot
                      0
                          7.9G
 -nvme0n1p2 259:2
                      0
                                0 part [SWAP]
 -nvme0n1p3 259:3
                      0 141.9G
                                0 part /
[sandbox@localhost Desktop]$
```

c. Ex: My "U_STIGViewer_2-17_Linux.iso" File would be Located in "/run/media/sandbox/07_28_2023", since I created the .ISO File on this date, and the File Size is about "151.6M"

- 6. Now we can Create the Directory for STIG Viewer.
 - a. Type in the Command "mkdir /home/[username]/Desktop/STIG_Viewer", and Press "Enter"
 - i. Ex: My Username is "sandbox", so I would type in the command "mkdir /home/sandbox/Desktop/STIG_Viewer".
- 7. Type in the Command "cd /home/[username]/Desktop", and Press "Enter"
 - a. Type in the Command "Is -al", Press "Enter", and Verify that the "/STIG_Viewer" Directory was Created Successfully.
- 8. Type in the Command "sudo cp ["MOUNTPOINT" of "U_STIGViewer_2-17_Linux.iso"] /home/[username]/Desktop/STIG_Viewer -r", and Press "Enter"
 - a. Ex: My "U_STIGViewer_2-17_Linux.iso" was mounted to "/run/media/sandbox/07_28_2023".
 - i. So the Command I would Input is: "sudo cp /run/media/sandbox/07_28_2023 /home/sandbox/Desktop/STIG_Viewer -r"
- 9. Type in the Command "cd /home/[username]/Desktop/STIG_Viewer/[the date you created the .ISO]", and Press "Enter"
 - a. Ex: "cd /home/sandbox/Desktop/STIG_Viewer/07_28_2023"
 - b. Type in the Command "Is -al", Press "Enter", and Verify that the "U_STIGViewer_2-17_Linux" (or your Corresponding STIG Viewer Folder) was Copied Successfully.
- 10. Type in the Command "cd /home/[username]/Desktop/STIG_Viewer", and Press "Enter"
 - a. Ex: "cd /home/sandbox/Desktop/STIG_Viewer"
- 11. Type in the Command "sudo chmod 755 -R [the date you created the .ISO]", Press "Enter"
 - a. Ex: "sudo chmod 755 -R 07_28_2023"
- 12. Type in the Command "Is -al", Press "Enter", and Verify that the Folder, with the name of the date that you created the .ISO, has the Permissions "drwxr-xr-x.".
- 13. Type in the Command "cd /home/[username]/Desktop/STIG_Viewer/[the date you created the .ISO]/U_STIGViewer_2-17_Linux", and Press "Enter"
 - a. Ex: "cd /home/sandbox/Desktop/STIG_Viewer/07_28_2023/U_STIGViewer_2-17_Linux"
- 14. Type in the Command "Is -al", Press "Enter", and Verify that the Files have the Permissions "drwxr-xr-x."
 - a. The "release" and "STIGViewer" Files will have the Permissions, "-rwxr-xr-x.".
- 15. A Screenshot of these File-Permissions, is attached below

```
@localhost U STIGViewer 2-17 Linux]# ls -al
total 16
drwxr-xr-x.
             7 sandbox sandbox
                                101 Jul 28 15:21
             3 sandbox sandbox
                                  37 Jul 28 15:21
            2 sandbox sandbox
                                  33 Jul 28 15:21 bin
            4 sandbox sandbox
                                 105 Jul 28 15:21 conf
drwxr-xr-x. 17 sandbox sandbox 4096 Jul 28 15:21 <mark>legal</mark>
            4 sandbox sandbox 4096 Jul 28 15:21 lib
             1 sandbox sandbox
                                 255 Jul 28 15:21 release
rwxr-xr-x.
             1 sandbox sandbox
rwxr-xr-x.
                                129 Jul 28 15:21 STIGViewer
drwxr-xr-x. 2 sandbox sandbox
                                 46 Jul 28 15:21 SWIDTAG
     @localhost U STIGViewer 2-17 Linuxl#
```

- 16. Now Type in the Command, "sudo ./STIGViewer", Press "Enter", and you should be good to go!
- 17. You have Successfully Installed STIG Viewer 2.17 on Red Hat Enterprise Linux!
- 18. Note: None of the .CKL "Checklist" Files will come along with STIG Viewer. If you want to add .CKL, "Checklist" Files, you can check out the "How to Install the STIG Checklist Library on Red Hat Enterprise Linux" Portion of the Guide.

How to Install the STIG Checklist Library on Red Hat Enterprise Linux

This guide assumes you have already completed the "Red Hat Enterprise Linux Prerequisites" and "How to Install STIG Viewer 2.17 on Red Hat Enterprise Linux" Portions of the Guide, and that you are currently signed into an account with "sudo" privileges.

- The STIG Checklist Library, "Compilation SRG-STIG Library" can be found here: https://public.cyber.mil/stigs/compilations/ a. To Download it, Click on "Compilation - SRG-STIG Library".
- 2. Once you have Downloaded the Latest Release of the STIG Checklist Library, you need to extract the "U_SRG-STIG_Library_2023_07v1.zip" File, to a Folder called, "U_SRG-STIG_Library_2023_07v1".
- 3. Once you have Extracted the STIG Viewer Files to a Folder, you need to Burn the "U_SRG-STIG_Library_2023_07v1" (or the Latest Release of the STIG Checklist Library), to an .ISO File.
 - a. If you are using AnyBurn, you would choose the option "Create image file from files/folders".
 - b. Click "Add +", Navigate to where you Created the "U_SRG-STIG_Library_2023_07v1" Folder, Click on the Folder, and Click "Add".
 - c. Click "Next >", Click the Folder Icon at the Top Right, Navigate to where you want to Save the .ISO File to, Type "U_SRG-STIG_Library_2023_07v1.iso" for the "File name:", and Click "Save".
 - d. Click "Create Now", and when it has Finished Creating the .ISO File it will say, "Creating image file finished successfully." in the "Mes sage" Section.
 - e. Now that the .ISO File has been Created, Navigate to where you Saved the .ISO File to.
 - i. If it is a Standalone Red Hat Enterprise Linux: Copy the "U_SRG-STIG_Library_2023_07v1.iso" to an External Drive, and Insert the External Drive into the RHEL Machine.
 - ii. If it is a Red Hat Enterprise Linux VM: Mount the "U_SRG-STIG_Library_2023_07v1.iso" in the VM Manager to your Virtual Machine.
 - For VMWare: Right-Click on your Red Hat Enterprise Linux Virtual Machine, and Click on "Settings..." or "Edit virtual machine settings".
 - a. Click on "Add...", Click on "CD/DVD Drive", and Click "Finish".
 - b. Click on "New CD/DVD (SATA)", Click on "Use ISO image file:", and Click "Browse...".
 - c. Navigate to where you Stored your "U_SRG-STIG_Library_2023_07v1.iso" File, and Click on it, and Click "O pen".
 - d. Check the Box that says "Connected", and then Click "OK".
 - 2. For VirtualBox: Click on your Red Hat Enterprise Linux Virtual Machine, and Click on "Settings".

- a. Click on "Storage", Click on "Controller: IDE", Click on III, Click "Optical Drive", and Click on "Add".
- b. Navigate to where you Stored your "U_SRG-STIG_Library_2023_07v1.iso" File, and Click on it, and Click "O nen"
- c. Click the Box that says "Choose" at the Bottom Right-Hand Corner, and then Click "OK".
- 4. Open the "Files" Application, and make sure that the "U_SRG-STIG_Library_2023_07v1.iso" Folder shows up in the File System.
 - a. It will Appear as a CD, followed by the date you created the .ISO File, on the Left Side.



- 5. Once you have verified that it is there, Open the "Terminal" Application, Type the Command "IsbIk", and Press "Enter".
 - a. Look for the "MOUNTPOINT" associated with the CD Drive that the File is attached to (The "SIZE" should be about "300.7M", if the "U_S RG-STIG_Library_2023_07v1" is the only Folder on there).

te ene_Elbrury				uo. c		,.
[sandbox@loo	calhost	~]\$				
NAME	MAJ:MIN	RM	SIZE	R0	TYPE	MOUNTPOINT
sr0	11:0	1	1024M	0	rom	
sr1	11:1	1	68K	0	rom	/run/media/sandbox/07_21_2023
sr2	11:2	1	64K	0	rom	/share/repo/yum.repos.d
sr3	11:3	1	89.1G	0	rom	
sr4	11:4	1	23.1G	0	rom	
sr5	11:5	1	151.6M	0	rom	/run/media/sandbox/07 28 2023
sr6	11:6	1	68.4M	0	rom	/run/media/sandbox/07_28_20231
sr7	11:7	1	224K	0	rom	/run/media/sandbox/08_02_2023
sr8	11:8	1	70K	0	rom	/run/media/sandbox/08_02_20231
sr9	11:9	1	300.7M	0	rom	/run/media/sandbox/08_04_2023
nvme0n1	259:0	0	150G	0	disk	
-nvme0n1p1	259:1	0	300M	0	part	/boot
-nvme0n1p2	259:2	0	7.9G	0	part	[SWAP]
└nvme0n1p3	259:3	0	141.9G	0	part	/
[sandbox@localhost ~]\$						
						·

- c. Ex: My "U_SRG-STIG_Library_2023_07v1.iso" File would be Located in "/run/media/sandbox/08_04_2023", since I created the .ISO File on this date, and the File Size is about "300.7M"
- 6. Now we can Create the Directory for the STIG Checklist Library.

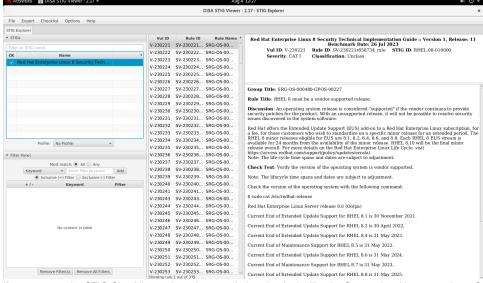
b.

- a. Type in the Command "mkdir /home/[username]/Desktop/STIG_Checklist_Library", and Press "Enter"
- b. Ex: My Username is "sandbox", so I would type in the command "mkdir /home/sandbox/Desktop/STIG_Checklist_Library".
- 7. Type in the Command "cd /home/[username]/Desktop", and Press "Enter"
 - a. Type in the Command "Is -al", Press "Enter", and Verify that the "/STIG_Checklist_Library" Directory was Created Successfully.
- 8. Type in the Command "sudo cp ["MOUNTPOINT" of "U_SRG-STIG_Library_2023_07v1.iso"] /home/[username]/Desktop /STIG_Checklist_Library -r", and Press "Enter"
 - a. Ex: My "U_SRG-STIG_Library_2023_07v1.iso" was mounted to "/run/media/sandbox/07_28_2023".
 - b. So the Command I would Input is: "sudo cp /run/media/sandbox/07_28_2023 /home/sandbox/Desktop/STIG_Checklist_Library -r"
- 9. Type in the Command "cd /home/[username]/Desktop/STIG_Checklist_Library", and Press "Enter"
 - a. Ex: "cd /home/sandbox/Desktop/STIG_Checklist_Library"
- 10. Type in the Command "sudo chmod 755 -R [the date you created the .ISO]", Press "Enter"
 - a. Ex: "sudo chmod 755 -R 07_28_2023"
- 11. Type in the Command "Is -al", Press "Enter", and Verify that the Folder, with the name of the date that you created the .ISO, has the Permissions "drwxr-xr-x.".
- Type in the Command "cd /home/[username]/Desktop/STIG_Checklist_Library/[the date you created the .ISO]/U_SRG-STIG_Library_2023_07v1", and Press "Enter"
 - a. Ex: "cd /home/sandbox/Desktop/STIG_Viewer/07_28_2023/U_SRG-STIG_Library_2023_07v1"
- 13. Type in the Command "Is -al", Press "Enter", and Verify that the Files have the Permissions "drwxr-xr-x."
 - a. The Checklist Files will have the Permissions, "-rwxr-xr-x.".
- 14. A Screenshot of these File-Permissions, is attached below

```
U SOL 11 SPARC V2R8 STIG.zip
U SOL 11 x86 V2R8 STIG.zip
U SPEC_Innovations_Innoslate_4-x_V1R1_STIG.zip
U SPEC_Innovations_Innoslate_4-x_V1R1_STIG.zip
U Splunk Enterprise_8-x_for_Linux_V1R4_STIG.zip'
U SS Landroid_11 Knox_3-x_STIG.zip
U SS_Android_0S_13_KPE_3-x_Y23M01_STIG.zip
U SS_SDS_EMM_V1R3_STIG.zip
U SS_SDS_EMM_V1R3_STIG.zip
U SS_SDS_EMM_V1R3_STIG.zip
U STORAGE_Area_Network_V2R4_STIG.zip
U SYM_ProxySG_Y20M04_STIG.zip
U TANIUM_7-0_V1R2_STIG.zip
U TaniuM_7-x_V1R2_STIG.zip
U TaniuM_7-x_V1R2_STIG.zip
U TaniuM_7-x_V1R2_STIG.zip
U Traditional_Security_Checklist_V2R4.zip
U Trend_Micro_Deep_Security_9-x_V1R1_STIG.zip
U UMM_Y23M04_SRG.zip
U VMW_HORIZON_7-13_V1R1_STIG.zip
U VMW_HORIZON_7-13_V1R1_STIG.zip
U VMW_WRealize_Ops_6-x_Y21M07_STIG.zip
U VMW_VRealize_Ops_6-x_Y21M07_STIG.zip
U VMW_VRealize_Ops_6-x_Y21M07_STIG.zip
U VMW_VRealize_Ops_BMC_cassandra_V1R1_STIG.zip
U VMW_VRealize_Ops_BMC_cassandra_V1R1_STIG.zip
U VMW_VRealize_Ops_BMC_cassandra_V1R1_STIG.zip
U VMW_VRealize_Ops_BMC_cassandra_V1R1_STIG.zip
U VMW_VRealize_Ops_BMC_cassandra_V1R1_STIG.zip
U VMW_VS1_UEM_V2R1_STIG.zip
U VMW_VS1_UEM_V2R1_STIG.zip
U VPN_V2R5_SRG.zip
U ZOS_ACF2_V6R58_Products.zip
U ZOS_ACF2_V6R58_Products.zip
U ZOS_TSS_V6R58_PRODUCTS.Zip
U ZOS_V6R58_SRR.zip
' Vendor_STIG_Acronym_List_V1R1.pdf'
v1]$

IG Viewer/Ithe_date_vou_created_the_ISO]/U_STIGVie
   rwxr-xr-x.
                           1 root root
                           1 root root
                                                       1359741 Aug
   rwxr-xr-x.
                                                         869198 Aug
   rwxr-xr-x.
                                                       3933460 Aug
                                                                                   4 11:37
                                                                                   4 11:37
   rwxr-xr-x.
                          1 root root
                                                       4092776 Aug
                                                       3556251 Aug
   rwxr-xr-x.
                           1 root root
                                                                                    4 11:37
                                                        1659574 Aug
   rwxr-xr-x.
                               root root
                                                        1746765 Aug
   rwxr-xr-x.
                                                        1150544 Aug
                                                       1635665 Aug
                                                                                   4 11:37
   rwxr-xr-x.
                           1 root root
                                                         711198 Aug
                                                                                    4 11:37
   rwxr-xr-x.
                           1 root root
                                                        1896607 Aug
   rwxr-xr-x.
                               root root
                                                        1806089 Aug
   rwxr-xr-x.
                                                        1727083 Aug
                                                       1771428 Aug
   rwxr-xr-x.
                          1 root root
                                                                                    4 11:37
   rwxr-xr-x.
                                                       1258675 Aug
                           1 root root
                               root root
                                                          292996 Aug
                                                                                   4 11:37
                                                       1051248 Aug
   rwxr-xr-x.
                           1 root root
                                                        871014 Aug
                                                                                   4 11:37
                                                       4401032 Aug
   rwxr-xr-x.
                          1 root root
                                                       1400337 Aug
                                                                                    4 11:37
   rwxr-xr-x.
                           1 root root
                                                                                   4 11:37
   rwxr-xr-x.
                              root root
                                                          994078 Aug
                                                         365772 Aug
   rwxr-xr-x. 1 root root
                                                       3730572 Aug
                                                       1057562 Aug
                                                                                   4 11:37
   rwxr-xr-x. 1 root root
                                                                                    4 11:37
   rwxr-xr-x. 1 root root
                                                       1047540 Aug
                           1 root root
                                                          786477 Aug
   rwxr-xr-x.
                          1 root root
                                                         601581 Aug
   rwxr-xr-x. 1 root root 10247763 Aug
                                                                                   4 11:37
                                                       9471310 Aug
   rwxr-xr-x. 1 root root
                                                                                   4 11:37
   rwxr-xr-x. 1 root root
                                                       9389101 Aug
                                                                                    4 11:37
                                                       1971989 Aug
   rwxr-xr-x. 1
                               root root
                                                         183026 Aug
[sandbox@localhost U_SRG-STIG_Library_2023_07v1]$
```

- 15. Type in the Command "cd /home/[username]/Desktop/STIG_Viewer/[the date you created the .ISO]/U_STIGViewer_2-17_Linux", and Press "Enter"
 - a. Ex: "cd /home/sandbox/Desktop/STIG_Viewer/07_28_2023/U_STIGViewer_2-17_Linux"
 - b. If STIG Viewer is located in a different directory, Type in the command, "cd [location of the STIG-Viewer Folder]"
- 16. Testing the STIG Checklist Library Import: Now Type in the Command, "sudo ./STIGViewer", Press "Enter".
 - a. Now that STIG Viewer is Open, in the Top Left Corner Click on "File", and Click on "Import STIG..."
 - b. Navigate to where you Copied the "U_SRG-STIG_Library_2023_07v1" Folder to, Click on "U_RHEL_8_V1R11_STIG.zip", and Click "O pen".
 - c. Now Click on the "Red Hat Enterprise Linux 8 Security Technical Implementation Guide" in the Top Left Box of the STIG Explorer.



- 18. If you can see the STIG Checklist, and you have a window that looks like the Screenshot Above, you have Successfully Installed the STIG Checklist Library on Red Hat Enterprise Linux!
- 19. Note: You can use this portion of the guide to add individual .CKL "Checklist" Files , or folders of .CKL "Checklist" Files as well.