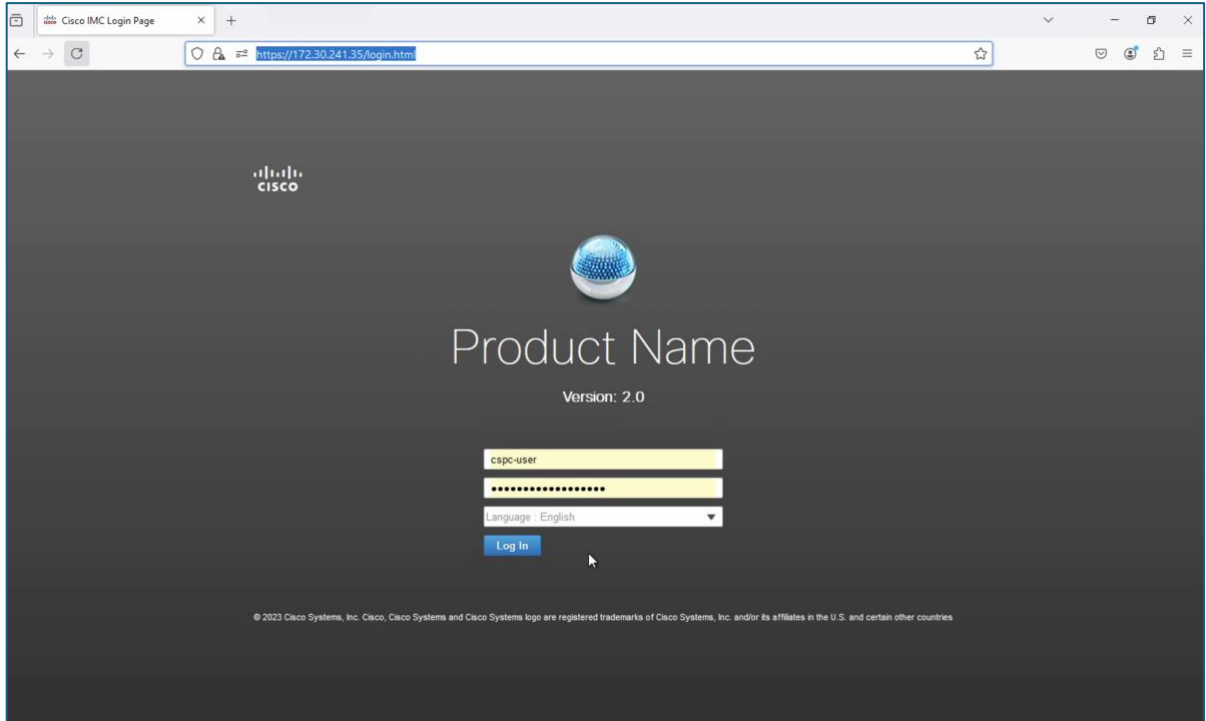


# Cisco CSPC

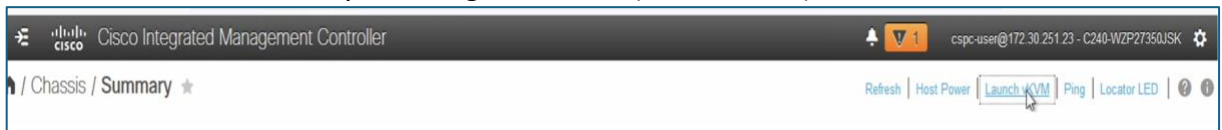
Troubleshoot guide for bringing up the Admin shell  
using Linux boot ISO.

August 2024

1. Download the Alma-Linux-boot ISO to PC (to use it in Step#7).  
[https://repo.almalinux.org/almalinux/9/isos/x86\\_64/AlmaLinux-9-latest-x86\\_64-boot.iso](https://repo.almalinux.org/almalinux/9/isos/x86_64/AlmaLinux-9-latest-x86_64-boot.iso)
2. Open Browser to login to CIMC.
3. Login to the CIMC console.



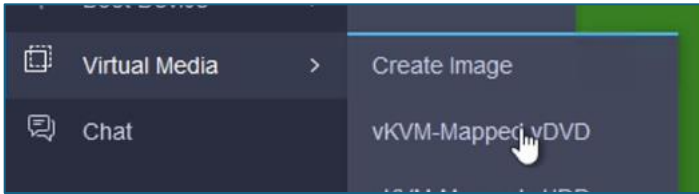
4. Launch the KVM session by selecting the button (Launch KVM) shown below.



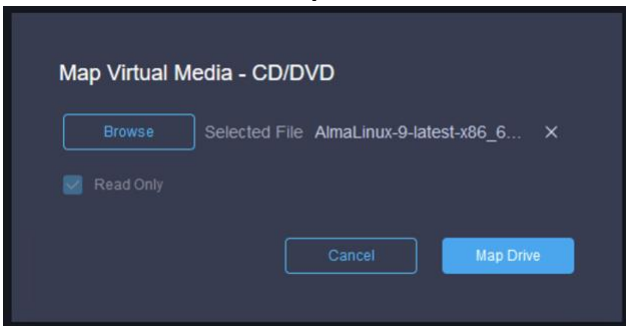
5. Click on the link provided.



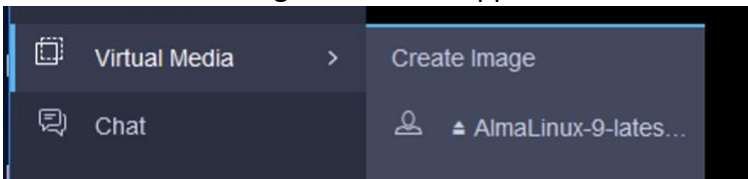
- On the screen displayed, select **Virtual Media > vKVM-mapped vDVD**.



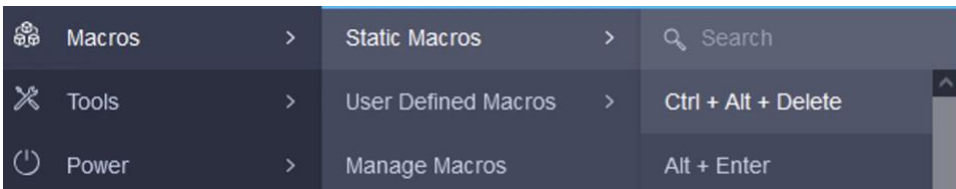
- Click on Browse, navigate to where the Linux-boot-ISO image (downloaded in step#1) is located and click on **Map Drive**.



- Confirm that the image has been mapped.



- Reboot the system by selecting **Macros > Static Macros > Ctrl+Alt+Delete**



- Once the reboot is underway, the screen below will display. Press (F6) to enter the Boot Menu.

```

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Press <F2> BIOS Setup : <F6>  Boot Menu : <F7>  Diagnostics
Press <F8> CIMC Setup : <F12> Network Boot
Bios Version : C240M7.4.3.2a.0.0710230213
Platform ID  : C240M7
- Loading Marvell SCSI Driver 1.1.17.1002

Processor(s) Intel(R) Xeon(R) Platinum 8468
Total Memory = 2048 GB Effective Memory = 2048 GB
Memory Operating Speed 4800 Mhz

Cisco IMC IPv4 Address : 172.30.241.35
Cisco IMC MAC Address : EC:F4:0C:5E:97:68

Entering Boot Menu ...
  
```

- Select the Cisco vKVM-Mapped vDVD2.0 drive and press **ENTER**.

```

UEFI: HTTP IPv6 Cisco(R) X710TLG GbE RJ45 PCIe NIC
UEFI: Built-in EFI Shell
UEFI: Cisco vKVM-Mapped vDVD2.0
Enter Setup
  
```

- Choose 'Troubleshooting' and press "Enter"

```

GRUB version 2.06

Install AlmaLinux 9.4
Test this media & install AlmaLinux 9.4
*Troubleshooting -->
  
```

- Choose 'Rescue a AlmaLinux System'

```

GRUB version 2.06

Install AlmaLinux 9.4 in text mode
*Rescue a AlmaLinux system
  
```

14. Choose [1] to continue.

```
Starting installer, one moment...
anaconda 34.25.4.9-1.el9_4.alma.1 for AlmaLinux 9.4 started.
 * installation log files are stored in /tmp during the installation
 * shell is available on TTY2
 * when reporting a bug add logs from /tmp as separate text/plain attachments
=====
=====
Rescue

The rescue environment will now attempt to find your Linux installation and
mount it under the directory : /mnt/sysroot. You can then make any changes
required to your system. Choose '1' to proceed with this step.
You can choose to mount your file systems read-only instead of read-write by
choosing '2'.
If for some reason this process does not work choose '3' to skip directly to a
shell.

1) Continue
2) Read-only mount
3) Skip to shell
4) Quit (Reboot)

Please make a selection from the above: 1_
```

15. Press “ENTER” to login to shell.

```
Please make a selection from the above: 1
=====
=====
Rescue Shell

Your system has been mounted under /mnt/sysroot.

If you would like to make the root of your system the root of the active system,
run the command:

    chroot /mnt/sysroot

When finished, please exit from the shell and your system will reboot.

Please press ENTER to get a shell:
bash-5.1#
```

16. Run command ‘chroot /mnt/sysroot’ to get into the local HD partition with bash shell.

```
Please press ENTER to get a shell:
bash-5.1#
bash-5.1# chroot /mnt/sysroot
bash-5.1#
```

17. Open file “ vi /opt/AppServices/adminshell”

```
bash-5.1#
bash-5.1#
bash-5.1# vi /opt/AppServices/adminshell
[anaconda11:main* 2:shell 3:log 4:storage-lc
```

18. Please comment the three lines as shown in below, Present at the end of file.

Save the file.

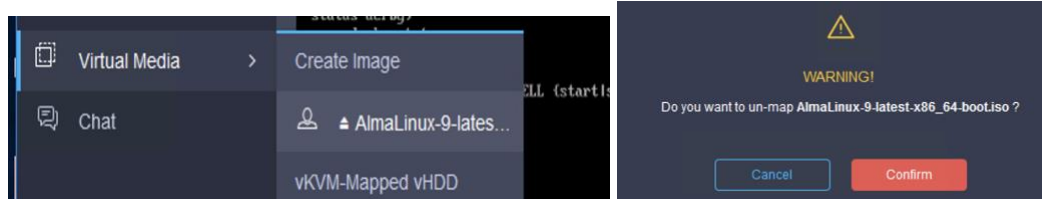
```
# See how we were called.
case "$1" in
start)
    # derby_stop
    # adminshell_stop
    # derby_start
    adminshell_start
    ;;
stop)
    derby_stop
    adminshell_stop
    ;;
restart)
    adminshell_stop
    adminshell_start
    ;;
status)
    derby_status
    adminshell_status
    ;;
start-derby)
    derby_start
    ;;
stop-derby)
    derby_stop
    ;;
restart-derby)
    derby_stop
    derby_start
    ;;
status-derby)
    derby_status
    ;;
*)
    echo "Usage: $ADMIN SHELL {start|stop|restart|status}"
    exit 1
esac
exit $RETVAL

anacondall:main* 2:shell 3:log 4:storage-log 5:program-log
```

19. Enter “exit” twice which will send the VM to reboot automatically.

```
bash-4.4# exit
exit
sh-4.4# exit
```

20. Unmount the Almalinux-boot ISO, by clicking **Virtual Media > AlmaLinux-ISO** and Click **“Confirm”**



21. Once boxes boots up, Admin shell we will be able to login.



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