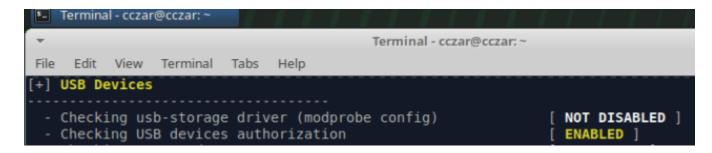
Finding: USB Storage Driver Enabled (USB-1001)

NIST Control Mapping: PR.DS-01 – The confidentiality, integrity, and availability of data-at-rest are protected **Risk:** The USB storage driver is enabled, allowing unauthorized users to transfer sensitive data via USB devices.

Severity: High

Remediation: Disable the USB storage driver to prevent data exfiltration via USB.

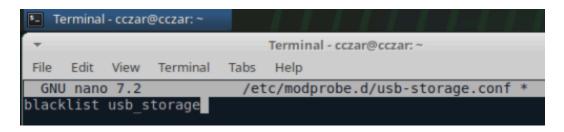
INITIAL LYNIS SCAN RESULT





REMEDIATION PROCESS

1. Verified USB storage driver was unloaded and created blacklist file for modprobe to prevent USB storage driver from loading



2. Confirmed blacklist status of USB storage driver

```
Terminal-cczar@cczar:~

Terminal-cczar@cczar:~

File Edit View Terminal Tabs Help

cczar@cczar:~$ lsmod | grep usb_storage

cczar@cczar:~$ sudo nano /etc/modprobe.d/usb-storage.conf

[sudo] password for cczar:

cczar@cczar:~$ grep -i usb_storage /etc/modprobe.d/usb-storage.conf

blacklist usb_storage
```

3. Disabled the USB module via kernel parameters

```
cczar@cczar:~$ grep -i usb storage /etc/modprobe.d/usb-storage.conf
blacklist usb storage
cczar@cczar:~$ sudo modprobe usb storage
cczar@cczar:~$ lsmod | grep usb storage
usb storage
                       86016 0
cczar@cczar:~$ sudo nano /etc/default/grub
cczar@cczar:~$ lsmod |
usb storage
                       86016 0
cczar@cczar:~$ sudo update-grub
Sourcing file `/etc/default/grub'
Generating grub configuration file ...
Found linux image: /boot/vmlinuz-6.8.0-79-generic
Found initrd image: /boot/initrd.img-6.8.0-79-generic
Found linux image: /boot/vmlinuz-6.8.0-64-generic
Found initrd image: /boot/initrd.img-6.8.0-64-generic
Found memtest86+x64 image: /memtest86+x64.bin
Warning: os-prober will not be executed to detect other bootable partitions.
Systems on them will not be added to the GRUB boot configuration.
Check GRUB DISABLE OS PROBER documentation entry.
Adding boot menu entry for UEFI Firmware Settings ...
done
```

```
Terminal-cczar@cczar:~

Terminal-cczar@cczar:~

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GNU nano 7.2 /etc/default/grub *

# If you change this file, run 'update-grub' afterwards to update

# /boot/grub/grub.cfg.

# For full documentation of the options in this file, see:

# info -f grub -n 'Simple configuration'

GRUB_DEFAULT=0

GRUB_TIMEOUT_STYLE=hidden

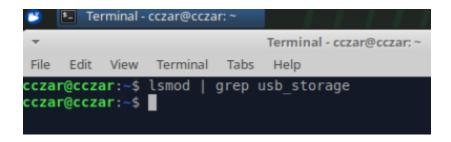
GRUB_TIMEOUT=0

GRUB_TIMEOUT=0

GRUB_DISTRIBUTOR=`( . /etc/os-release; echo ${NAME:-Ubuntu} ) 2>/dev/null || ec  
GRUB_CMDLINE_LINUX_DEFAULT="quiet splash modprobe.blacklist=usb_storage"

GRUB_CMDLINE_LINUX=""
```

4. After applying the USB storage module blacklist and updating the kernel parameters, a reboot shows Ismod | grep usb_storage does not return the module, confirming the module is no longer loaded at boot and the hardening is effective.



LYNIS SCAN RESULT AFTER REMEDIATION

