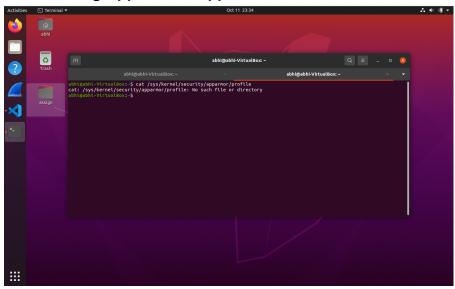
ADVANCES IN OPERATING SYSTEM DESIGN

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Part A: Configuring and building the Linux kernel - Report

1. Removing AppArmor support

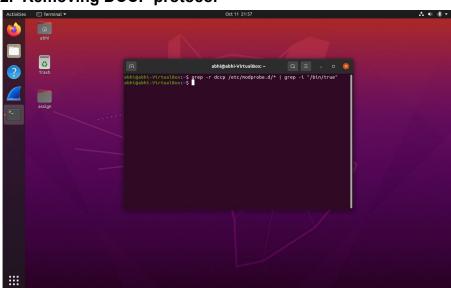


From the menuconfig file, AppArmor support was removed by navigating to 'Security Options -> AppArmor Support -> support removed'.

The command '\$ cat /sys/kernel/security/apparmor/profile" 'outputs No such file or directory, showing that the AppArmor support was removed.

In the config file it can be seen that `# CONFIG_SECURITY_APPARMOR is not set`.

2. Removing DCCP protocol



From the menuconfig file, DCCP protocol was removed by navigating to 'Networking Support -> Networking Options -> The DCCP Protocol'.

The command '\$ grep -r dccp /etc/modprobe.d/* | grep -i "/bin/true" ' does not generate any output showing that the DCCP protocol was removed.

The config file does not have mention of 'DCCP' anymore.

3. Updating default TCP congestion control algorithm to Reno



From the menuconfig file, TCP congestion algorithm was changed from 'Cubic' to 'Reno' by navigating to 'Networking Support -> Networking Options -> TCP: advanced congestion control -> Default TCP congestion control -> Reno'.

The command `\$ cat/proc/sys/net/ipv4/tcp_congestion_control` is now showing 'Reno' instead of 'Cubic' which it showed previously, visible in the picture above.

In the config file it can be seen that `CONFIG_DEFAULT_RENO=y` and `CONFIG_DEFAULT_TECP_CONG="reno"`.