

Hardening an Android Mobile Device

Wireless and Mobile Device Security, Second Edition - Lab 04

Student:

Andre Hardy

Email:

ahardy754@email.porterchester.edu

Time on Task:

1 hour, 1 minute

Progress:

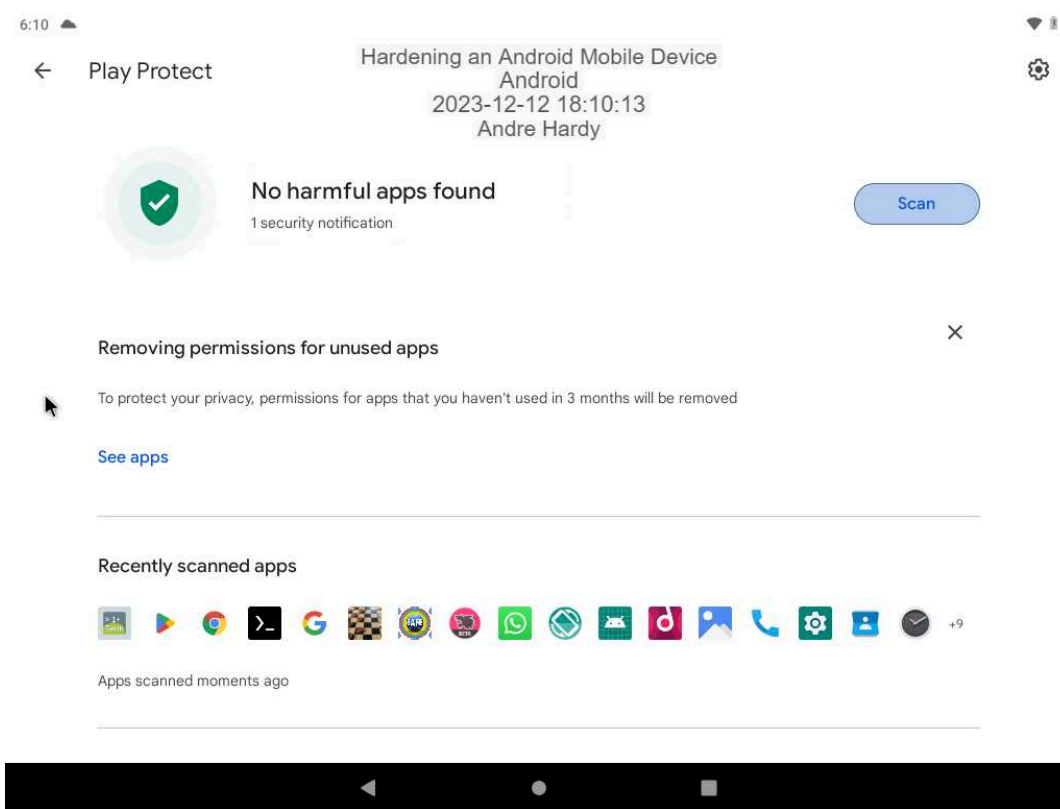
100%

Report Generated: Tuesday, December 12, 2023 at 6:49 PM

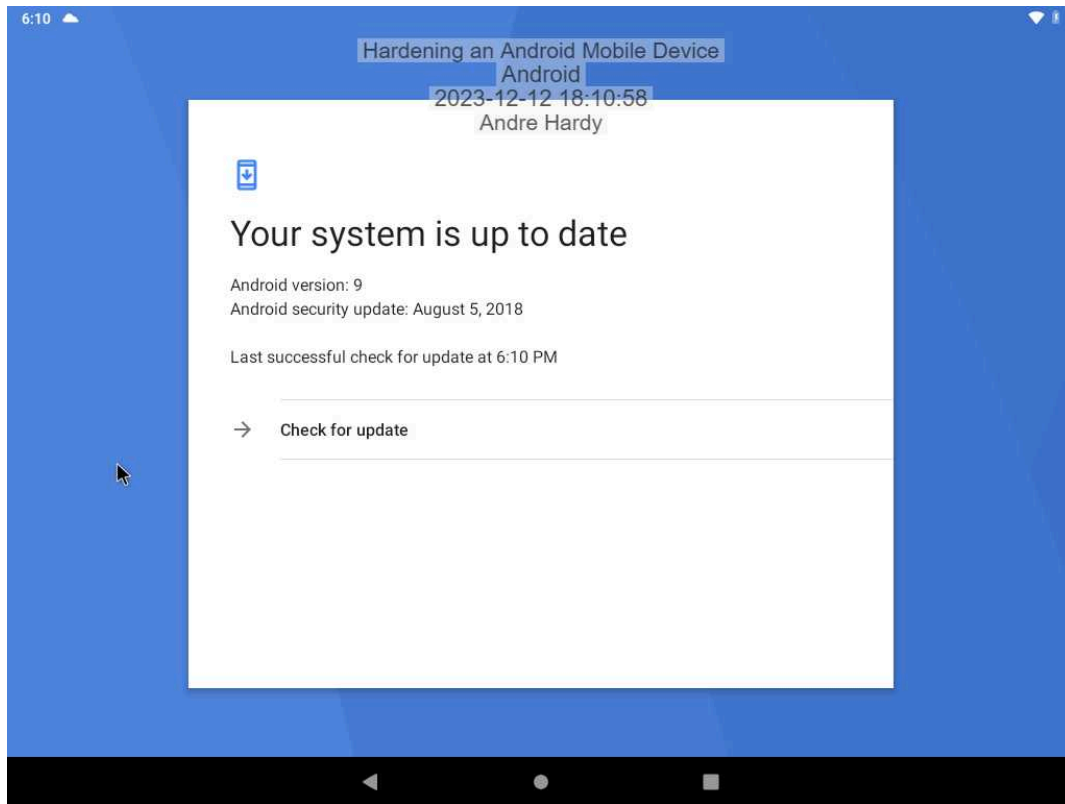
Section 1: Hands-On Demonstration

Part 1: Apply Basic Android Security Controls

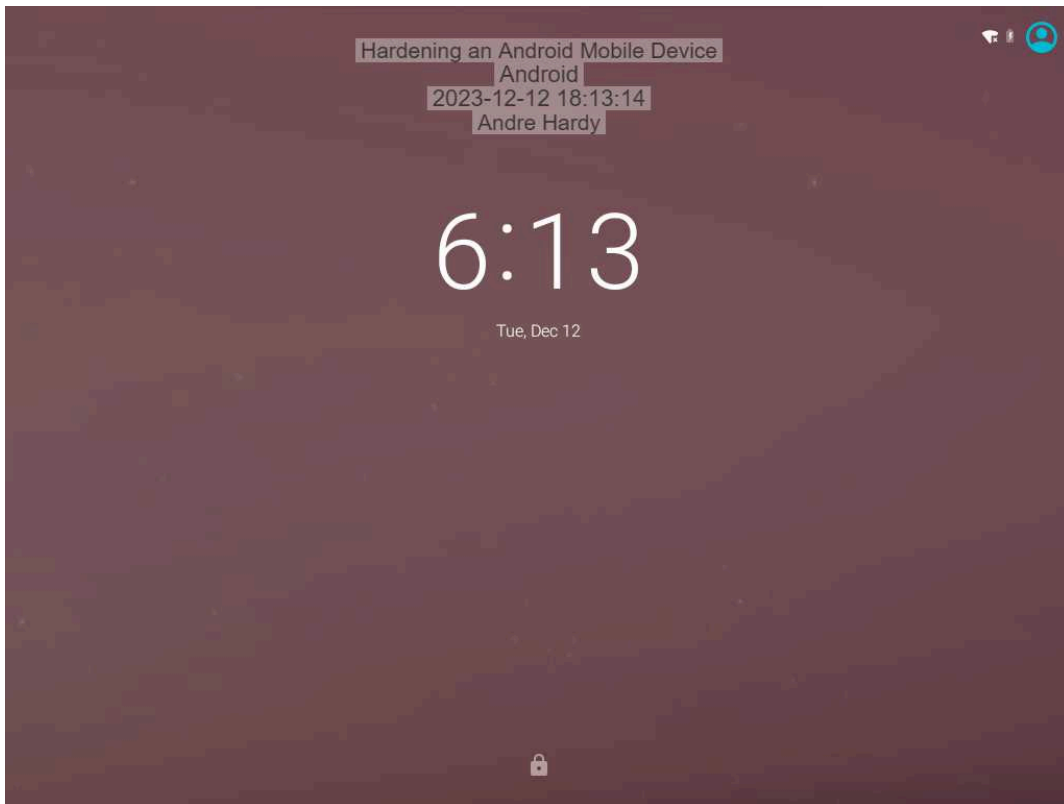
6. Make a screen capture showing the results of the Google Play Protect scan.



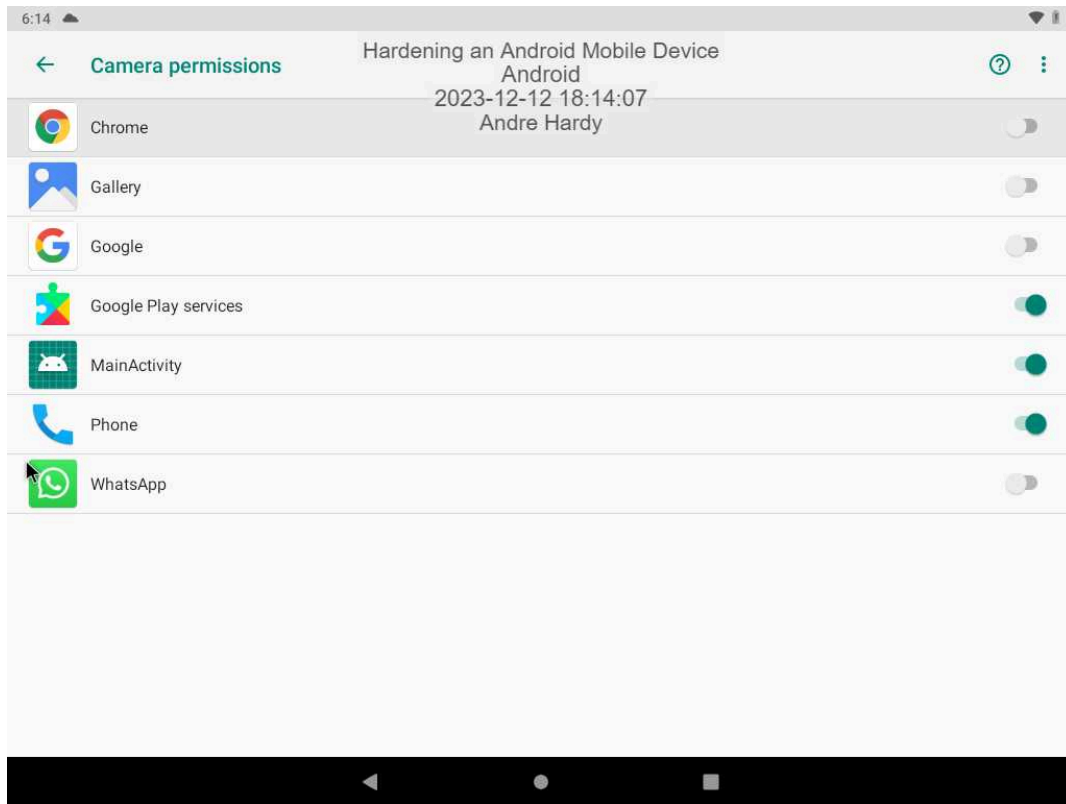
10. **Make a screen capture** showing the **updated “last successful check for update” timestamp**.



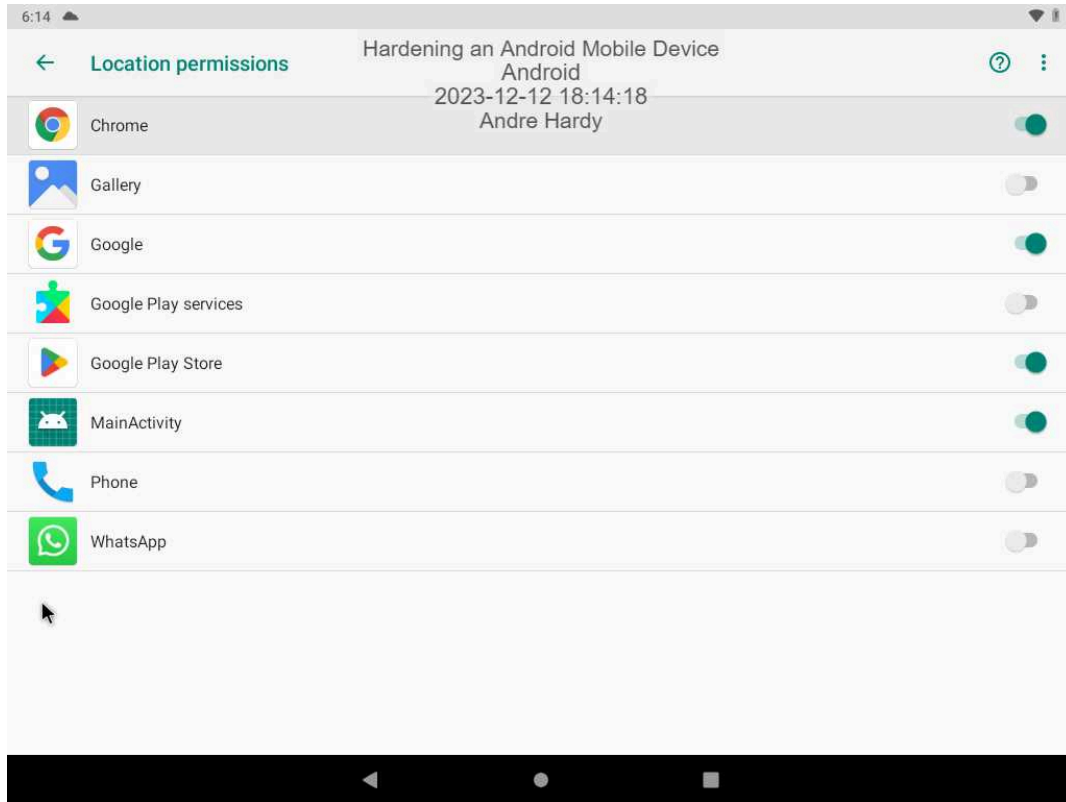
18. **Make a screen capture** showing the **Android lock screen**.



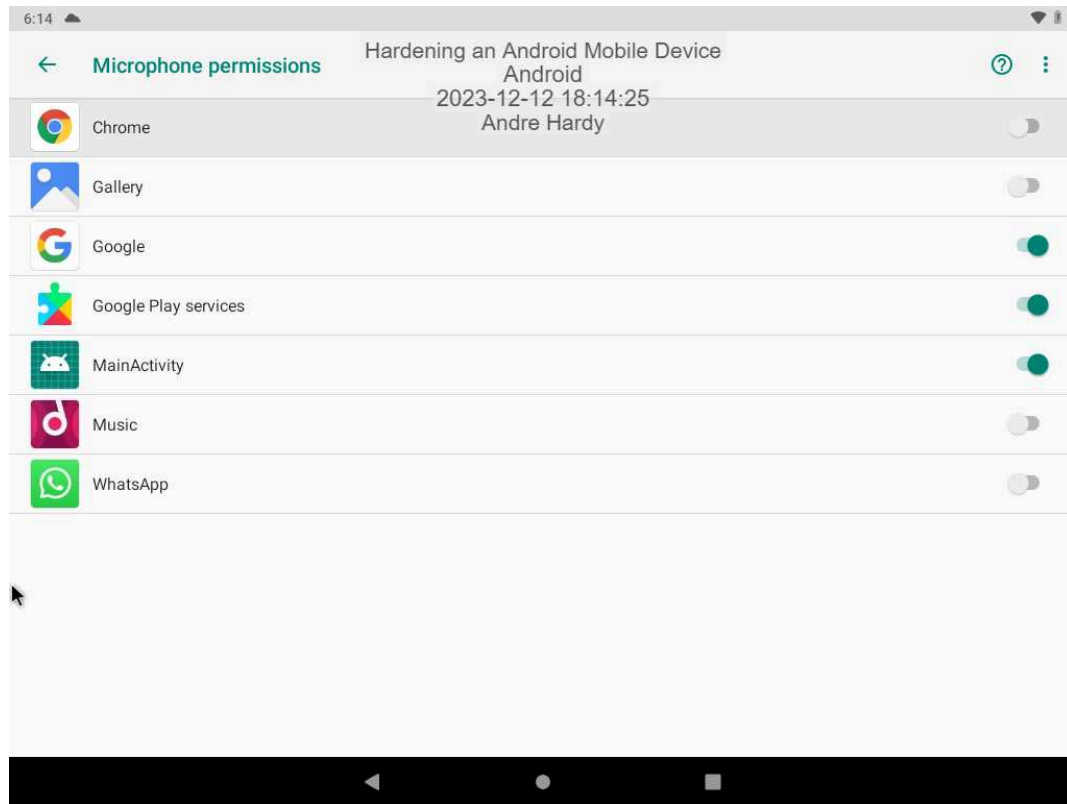
24. **Make a screen capture** showing the **list of apps that currently have Camera permissions**.



27. **Make a screen capture** showing the **list of apps that currently have Location permissions**.

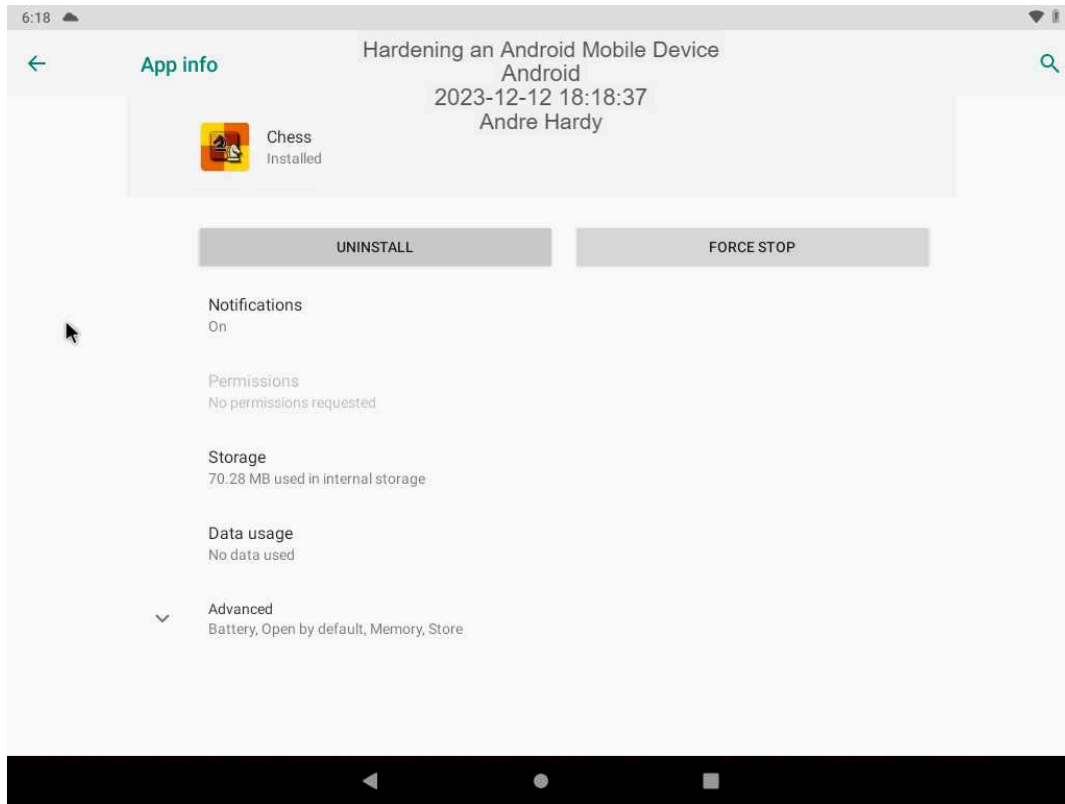


28. **Make a screen capture** showing the **list of apps that currently have Microphone permissions**.

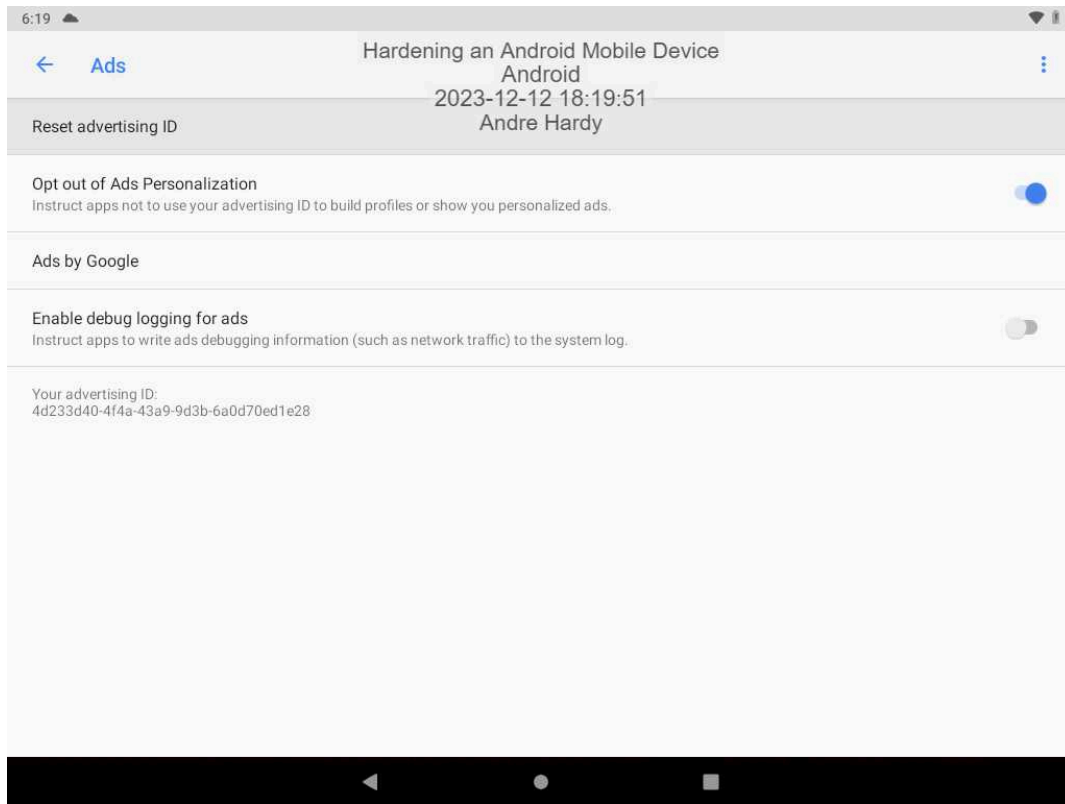


Part 2: Install an App and Verify Privacy Settings

12. **Make a screen capture** showing the **app details for Chess Free**.



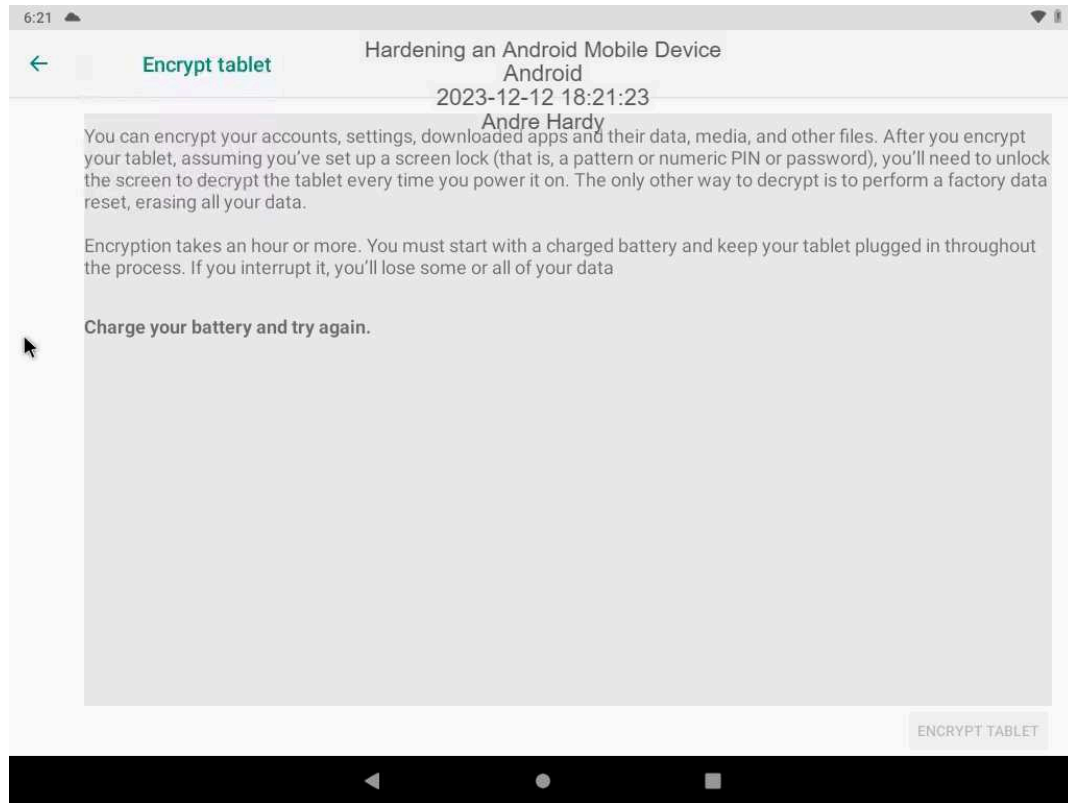
19. **Make a screen capture** showing the **updated Ads settings**.



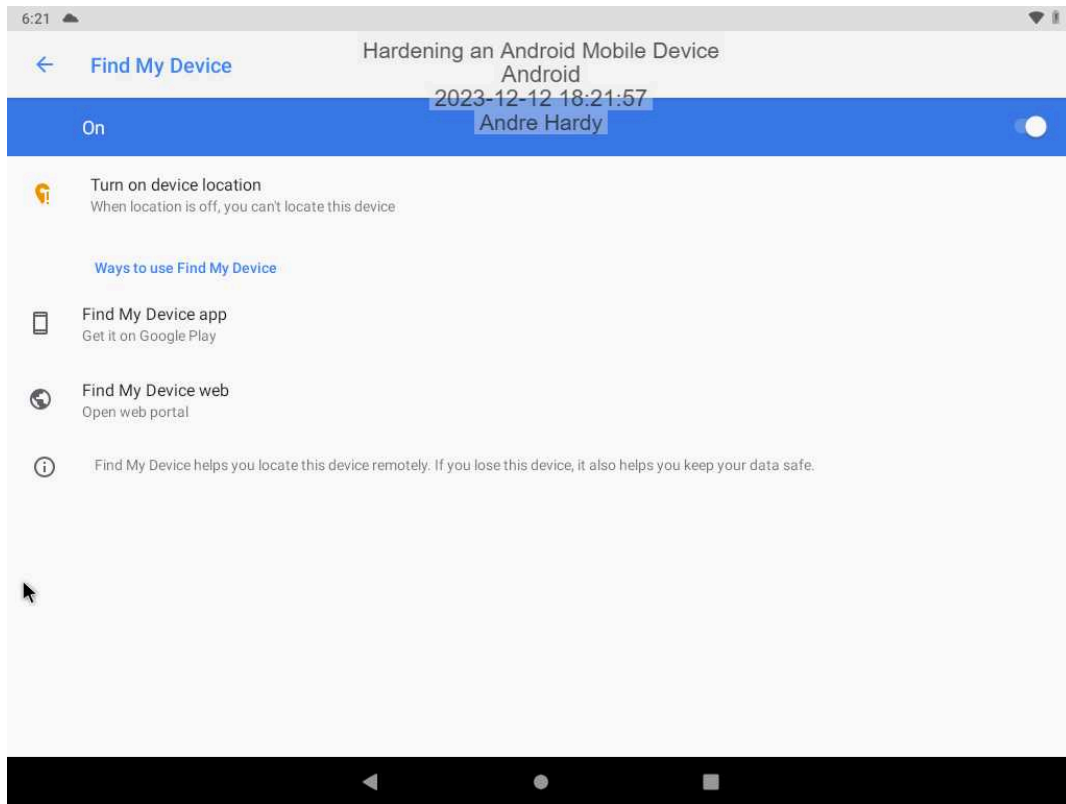
Section 2: Applied Learning

Part 1: Apply Additional Android Security Controls

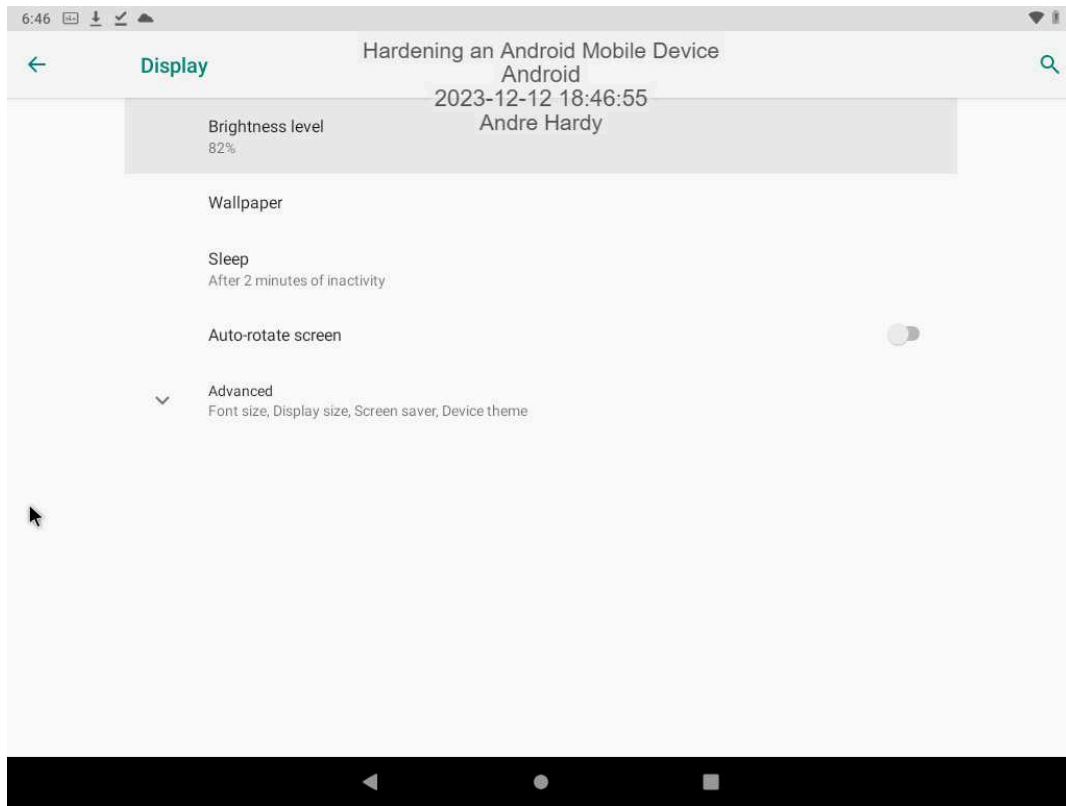
5. Make a screen capture showing the **encryption set-up explanation**.



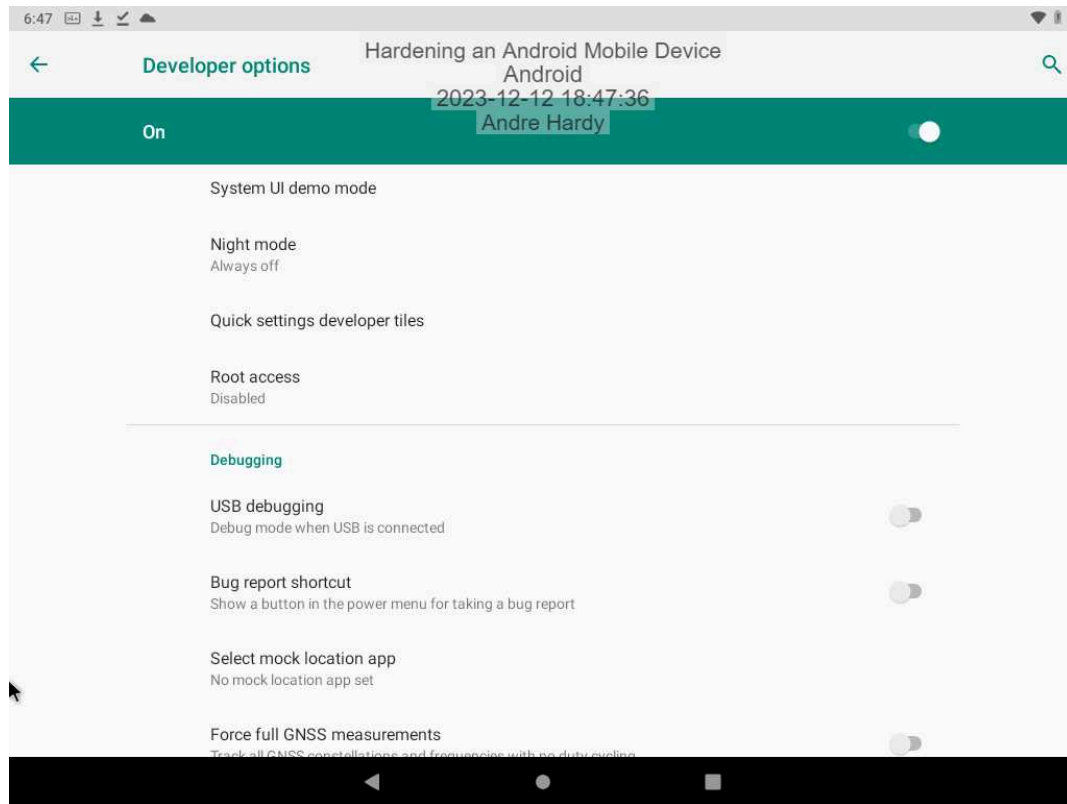
7. Make a screen capture showing the **Find My Device** settings.



11. **Make a screen capture** showing the **Display** settings with the updated auto-lock timer.

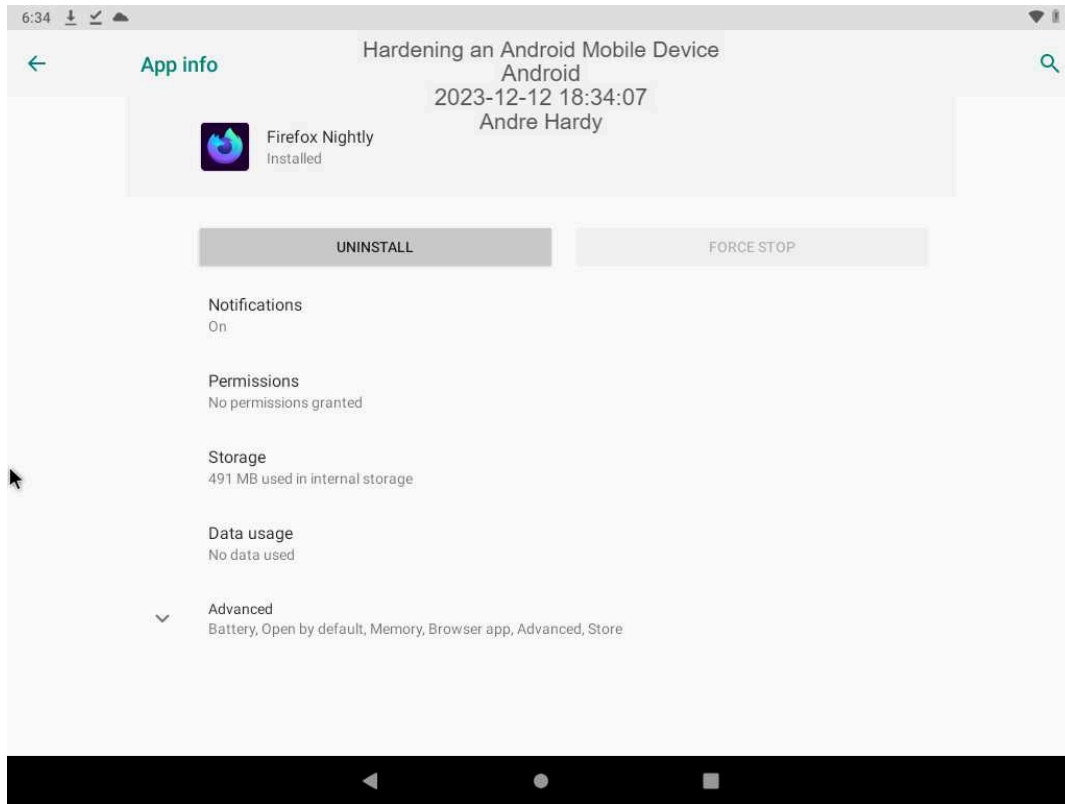


16. Make a screen capture showing the **deactivated** USB debugging setting.

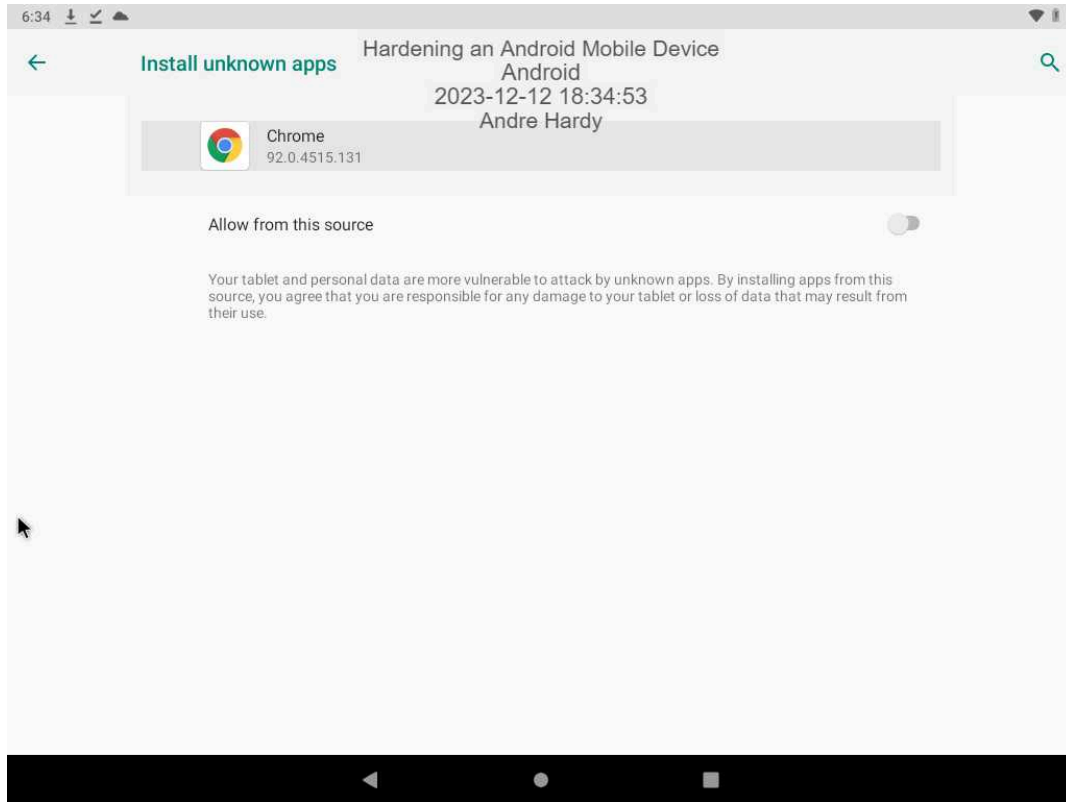


Part 2: Test and Disable App Sideloading

11. Make a screen capture showing the **Firefox Nightly** app details.



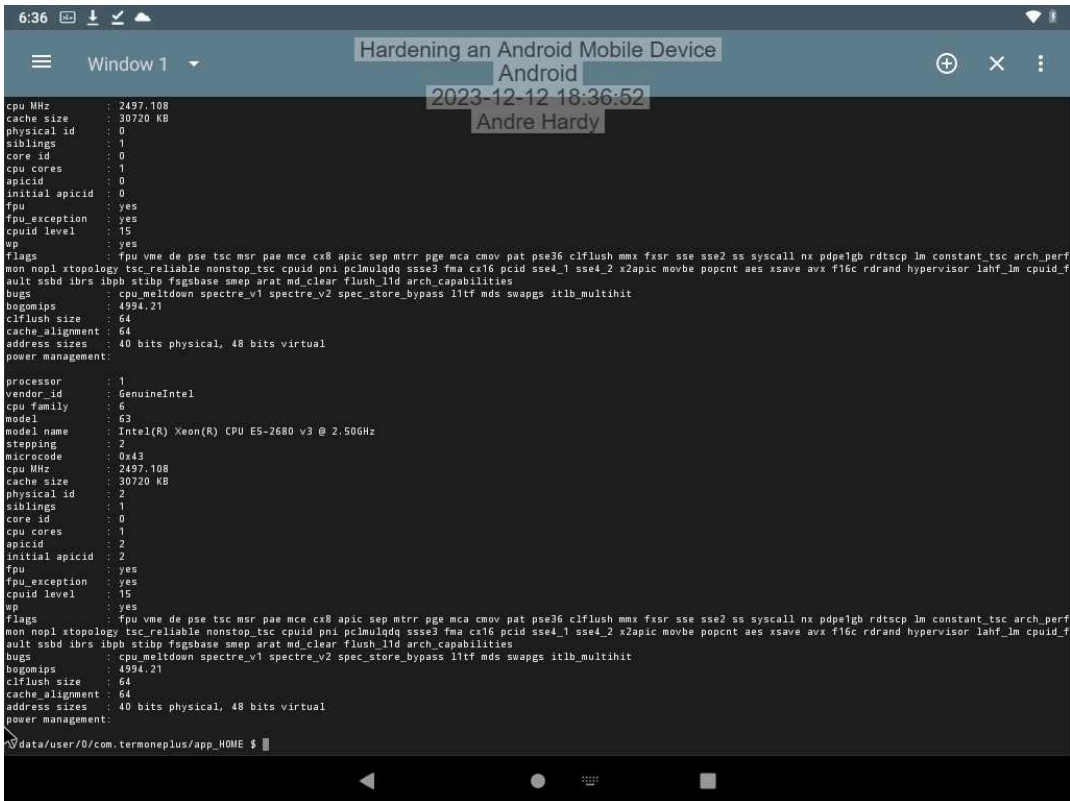
13. **Make a screen capture** showing the **deactivated** Install unknown apps setting for **Chrome**.



Section 3: Challenge and Analysis

Part 1: Gather System Specs with Linux Commands

Make a screen capture showing the results of the `cat /proc/cpuinfo` command.



```
6:36 Window 1 Hardening an Android Mobile Device
2023-12-12 18:36:52
Andre Hardy

cpu MHz       : 2497.108
cache size    : 30720 KB
physical id   : 0
siblings      : 1
core id       : 0
cpu cores     : 1
apicid        : 0
initial apicid : 0
fpu           : yes
fpu_exception : yes
cpuid level   : 15
wp            : yes
flags         : fpu vme de pse tsc msr pae mce cx8 apic sep mtrr pge mca cmov pat pse36 clflush mmx fxsr sse sse2 ss syscall nx pdpe1gb rdtscp lm constant_tsc arch_perf
mon nopl xtopology tsc_reliable nonstop_tsc cpuid pni pclmulqdq sse3 fma cx16 pcid sse4_1 sse4_2 x2apic movbe popcnt aes xsave avx f16c rdrand hypervisor lahf_lm cpuid_f
ault ssbd ibrs ibpb stibp fsgsbase smep arat md_clear flush_l1d arch_capabilities
bugs          : cpu_meltdown spectre_v1 spectre_v2 spec_store_bypass l1tf mds swapgs itlb_multihit
bogomips      : 4994.21
clflush size   : 64
cache alignment : 64
address sizes  : 40 bits physical, 48 bits virtual
power management:

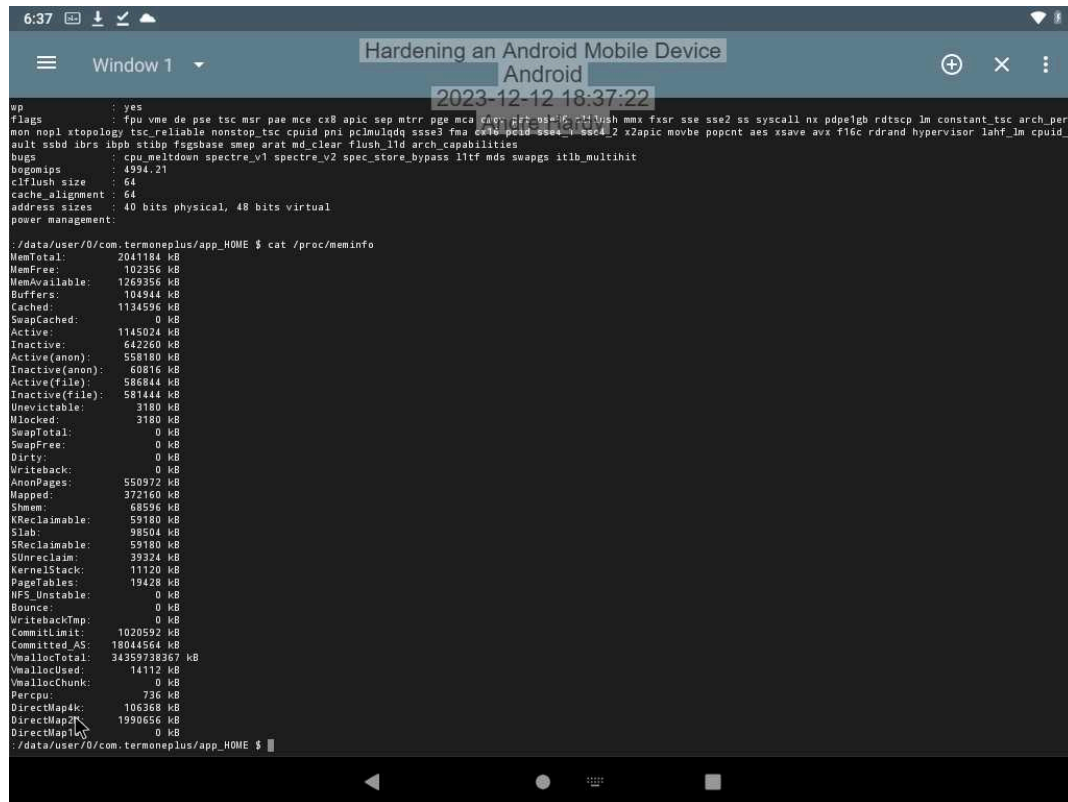
processor      : 1
vendor_id     : GenuineIntel
cpu family    : 6
model         : 63
model name    : Intel(R) Xeon(R) CPU E5-2680 v3 @ 2.50GHz
stepping      : 2
microcode    : 0x43
cpu MHz       : 2497.108
cache size    : 30720 KB
physical id   : 2
siblings      : 1
core id       : 0
cpu cores     : 1
apicid        : 2
initial apicid : 2
fpu           : yes
fpu_exception : yes
cpuid level   : 15
wp            : yes
flags         : fpu vme de pse tsc msr pae mce cx8 apic sep mtrr pge mca cmov pat pse36 clflush mmx fxsr sse sse2 ss syscall nx pdpe1gb rdtscp lm constant_tsc arch_perf
mon nopl xtopology tsc_reliable nonstop_tsc cpuid pni pclmulqdq sse3 fma cx16 pcid sse4_1 sse4_2 x2apic movbe popcnt aes xsave avx f16c rdrand hypervisor lahf_lm cpuid_f
ault ssbd ibrs ibpb stibp fsgsbase smep arat md_clear flush_l1d arch_capabilities
bugs          : cpu_meltdown spectre_v1 spectre_v2 spec_store_bypass l1tf mds swapgs itlb_multihit
bogomips      : 4994.21
clflush size   : 64
cache alignment : 64
address sizes  : 40 bits physical, 48 bits virtual
power management:

/data/user/0/com.termoneplus/app_HOME $
```

Hardening an Android Mobile Device

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Make a screen capture showing the results of the `cat /proc/meminfo` command.



The screenshot shows an Android terminal window titled "Hardening an Android Mobile Device" with a timestamp of "2023-12-12 18:37:22". The terminal displays the output of the `cat /proc/meminfo` command, showing various memory statistics. The output is as follows:

```
wp : yes
flags : tpu vme de pse tsc mtr pae mce cpl apic sep mtrr pge mca cpl rdtscp lm constant_tsc arch_perfmon nopl stopleady tsc_reliable nontop_tsc cpuid pni pclmuldq sse3 fma cldt pcid sse4_1 sse4_2 x2apic movbe popcnt aes xsave avx f16c rdrand hypervisor lahf_lm cpuid_fault ssbd ibrs ibpb stibp fsgsbase smep arat md_clear flush_lld arch_capabilities
bugs : cpu_meltdown spectre_v1 spectre_v2 spec_store_bypass l1tf mds swapgs itlb_multihit
bogomips : 4994.21
clflush_size : 64
cache_alignment : 64
address sizes : 40 bits physical, 48 bits virtual
power management:

./data/user/0/com.termoneplus/app_HOME $ cat /proc/meminfo
MemTotal: 2041184 kB
MemFree: 102356 kB
MemAvailable: 1269356 kB
Buffers: 104944 kB
Cached: 1134596 kB
SwapCached: 0 kB
Active: 1145024 kB
Inactive: 642260 kB
Active(anon): 558180 kB
Inactive(anon): 60816 kB
Active(file): 586844 kB
Inactive(file): 581444 kB
Unevictable: 3180 kB
Mlocked: 3180 kB
SwapTotal: 0 kB
SwapFree: 0 kB
Dirty: 0 kB
Writeback: 0 kB
AnonPages: 550972 kB
Mapped: 372160 kB
Shmem: 68596 kB
KReclaimable: 59180 kB
Slab: 98504 kB
SReclaimable: 59180 kB
SUnreclaim: 39324 kB
KernelStack: 11120 kB
PageTables: 19428 kB
WFS_Unstable: 0 kB
Bounce: 0 kB
WritebackTmp: 0 kB
CommitLimit: 1020592 kB
Committed_AS: 1804456 kB
VmallocTotal: 34359738367 kB
VmallocUsed: 14112 kB
VmallocChunk: 0 kB
PerCpu: 736 kB
DirectMap4k: 106368 kB
DirectMap2M: 1990656 kB
DirectMap1M: 0 kB
./data/user/0/com.termoneplus/app_HOME $
```

Part 2: Run an Android App on Windows with BlueStacks

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Make a screen capture showing the Firefox Nightly app running in BlueStacks.

