

Hardening an Android Mobile Device

Wireless and Mobile Device Security, Second Edition - Lab 04

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Time on Task:

1 hour, 1 minute

Progress:

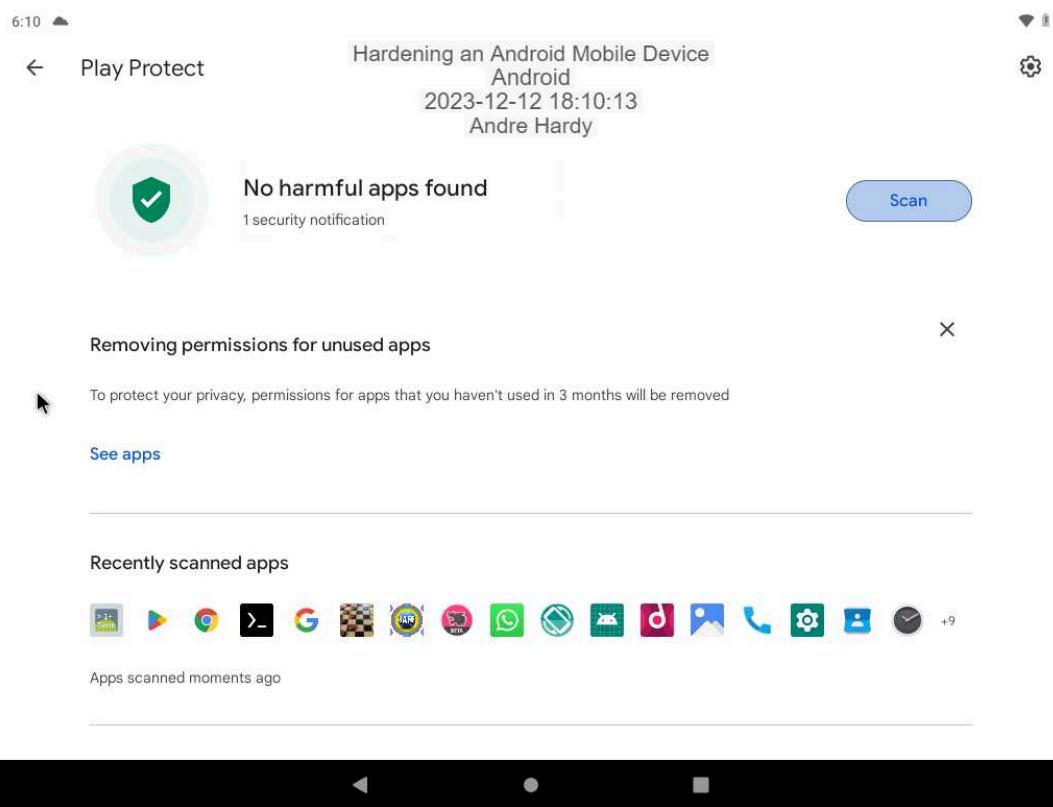
100%

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

Section 1: Hands-On Demonstration

Part 1: Apply Basic Android Security Controls

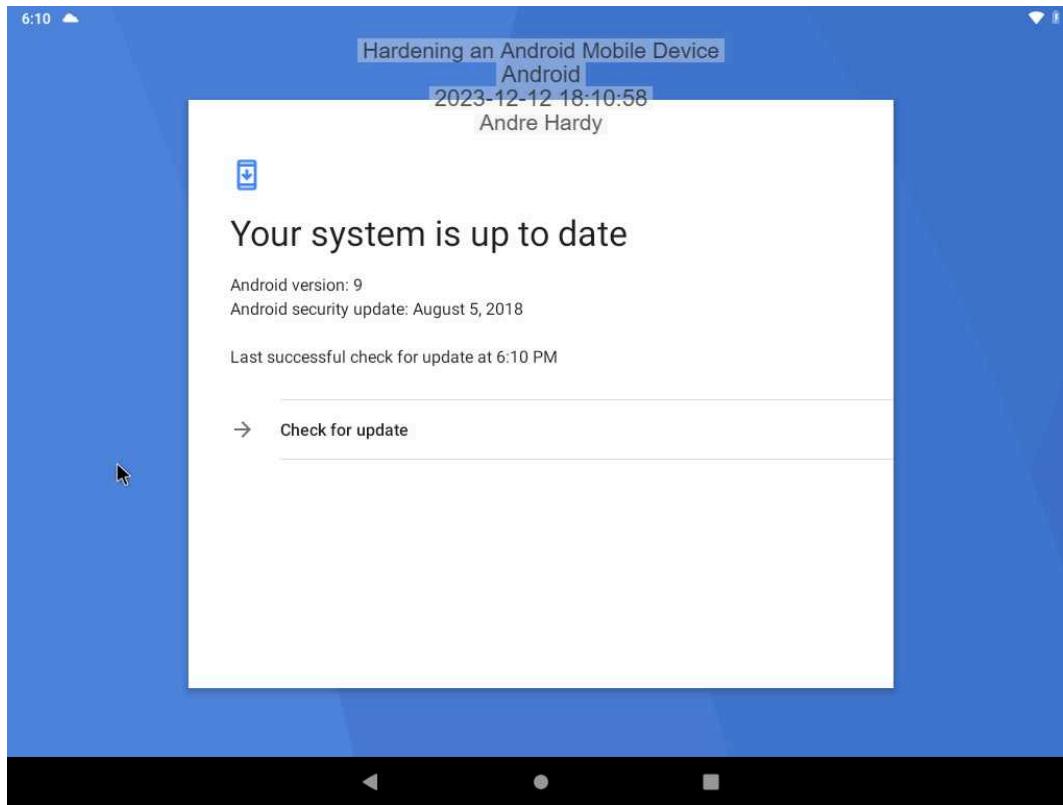
6. Make a screen capture showing the results of the Google Play Protect scan.



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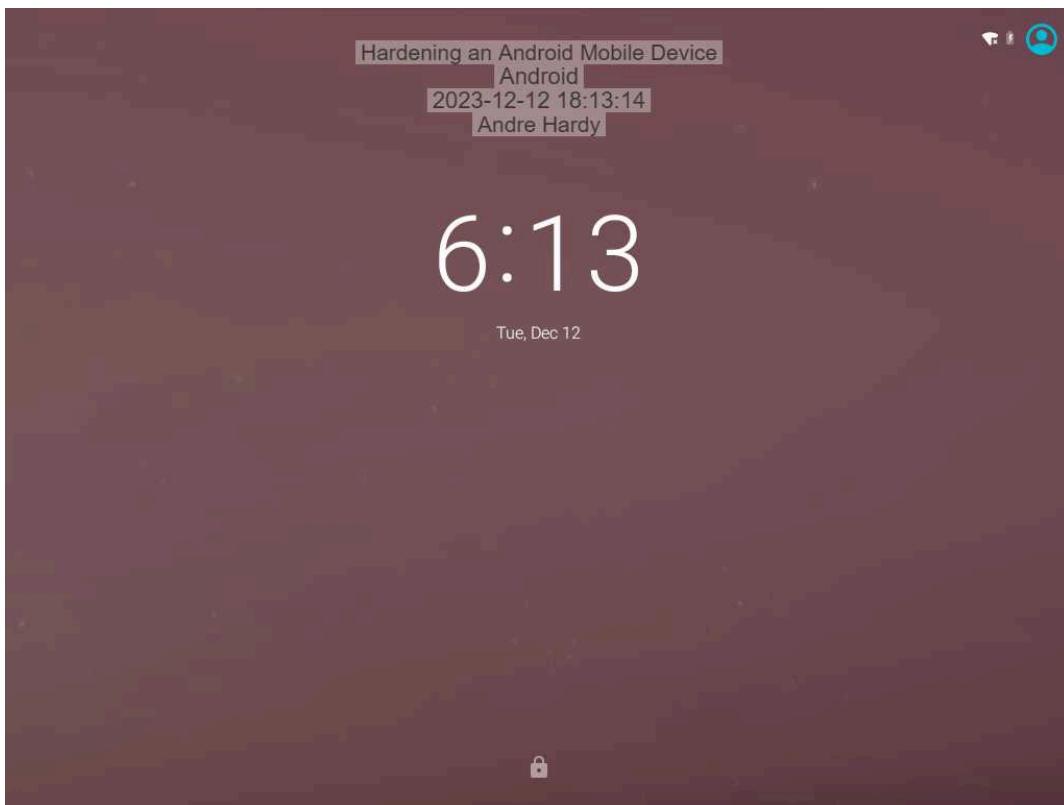
10. Make a screen capture showing the updated “last successful check for update” timestamp.



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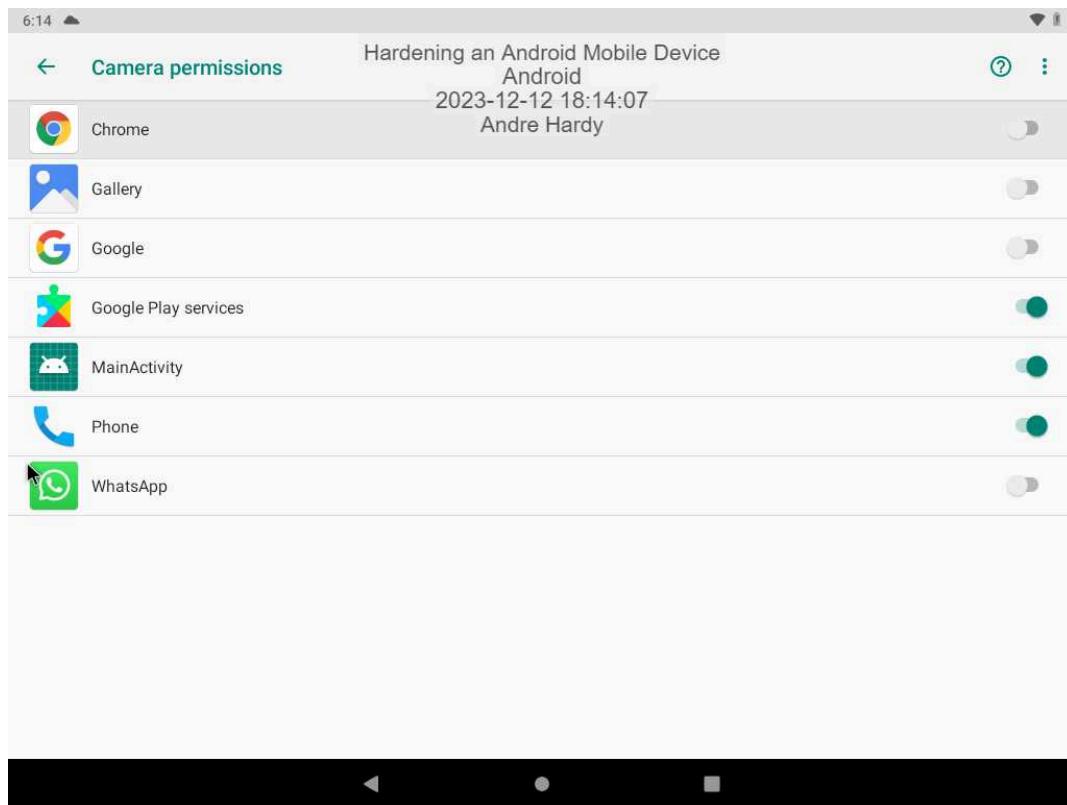
18. Make a screen capture showing the **Android lock screen**.



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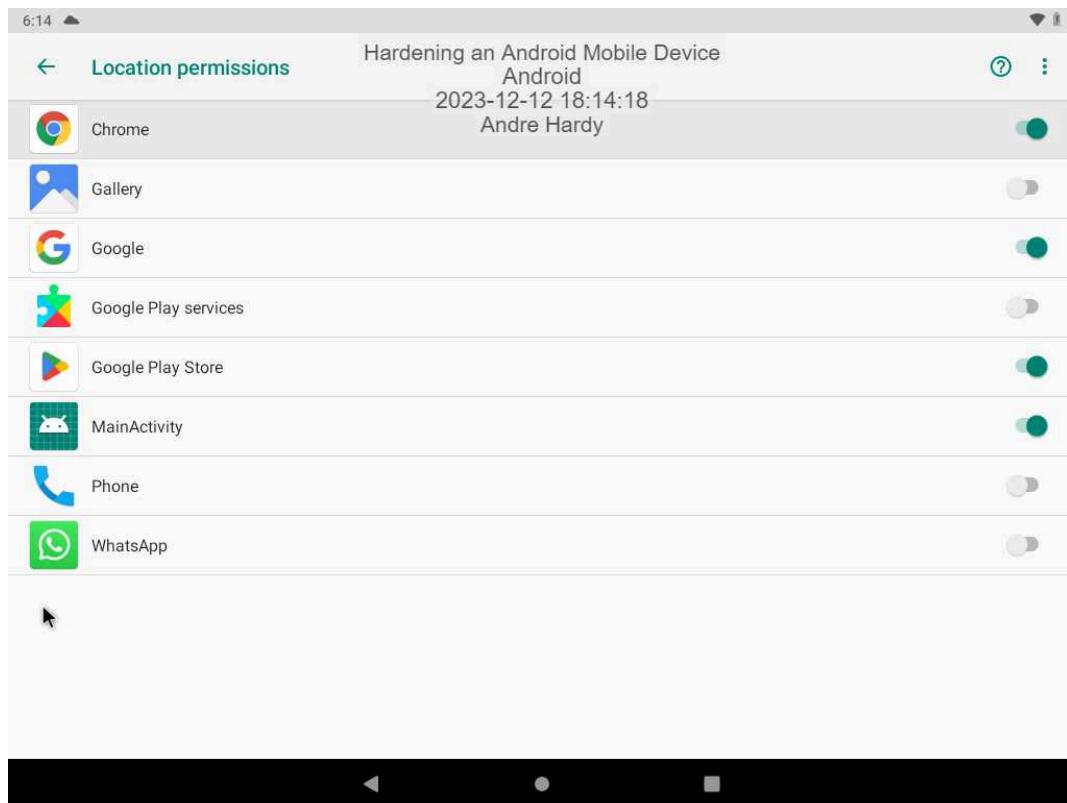
24. Make a screen capture showing the list of apps that currently have Camera permissions.



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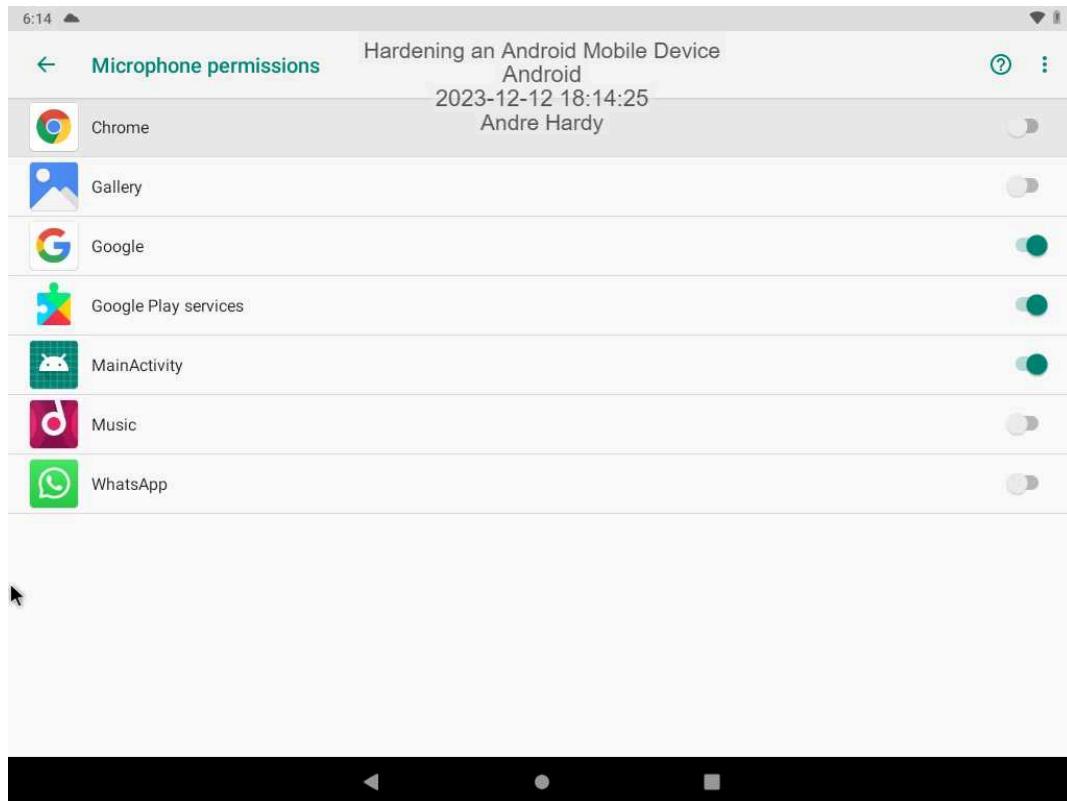
27. Make a screen capture showing the list of apps that currently have Location permissions.



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

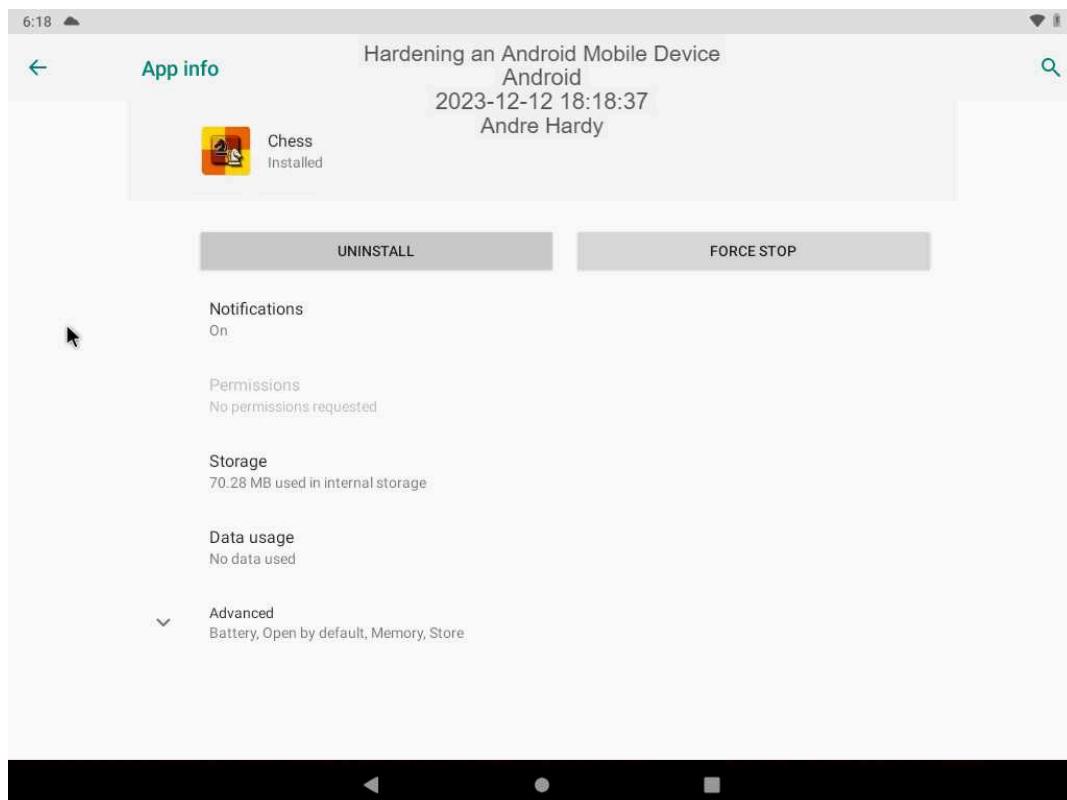


Part 2: Install an App and Verify Privacy Settings

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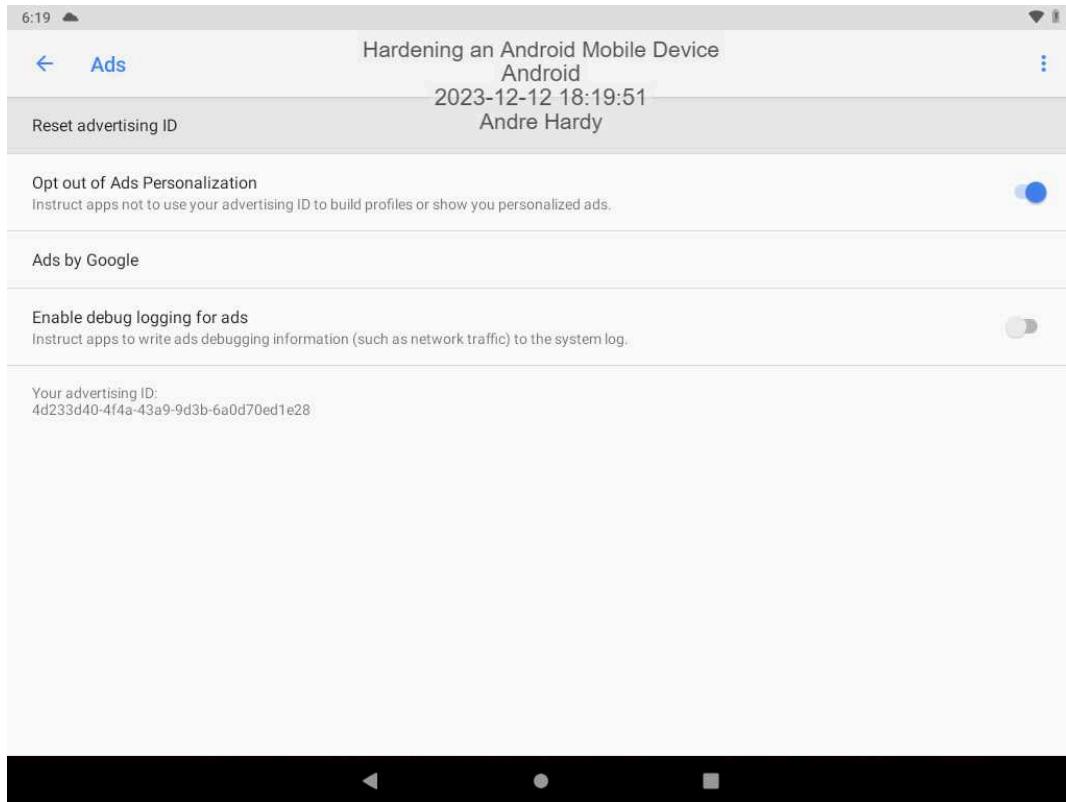
12. Make a screen capture showing the app details for Chess Free.



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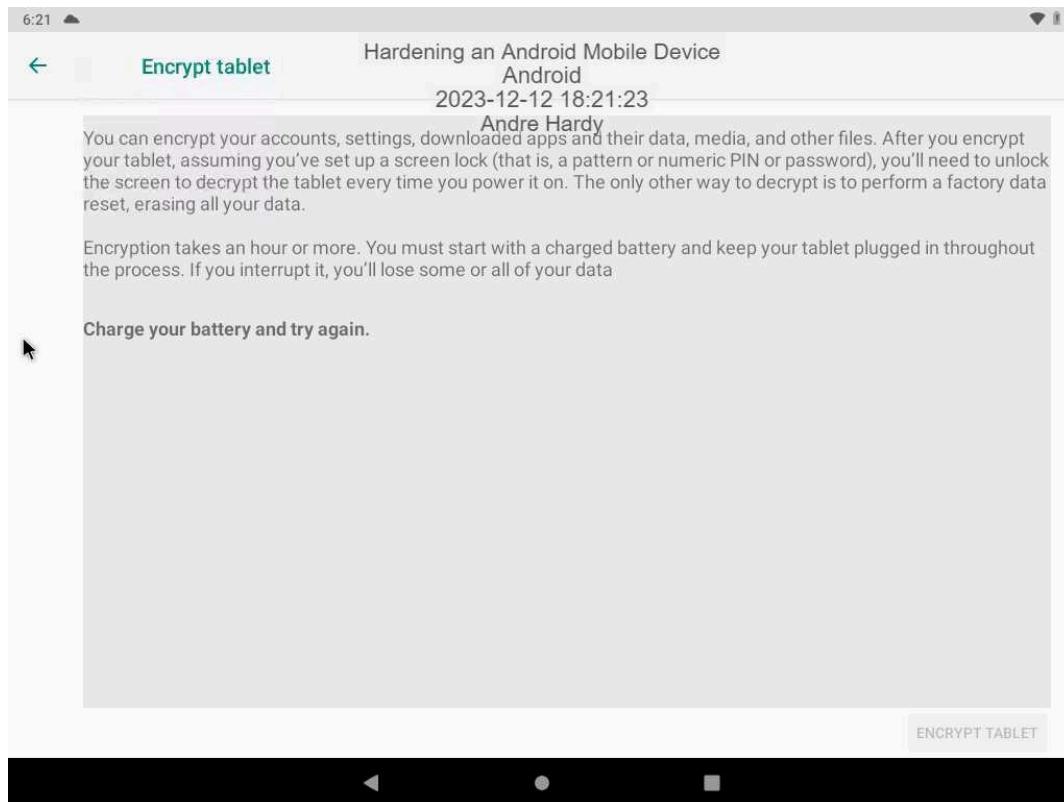
19. Make a screen capture showing the updated Ads settings.



Section 2: Applied Learning

Part 1: Apply Additional Android Security Controls

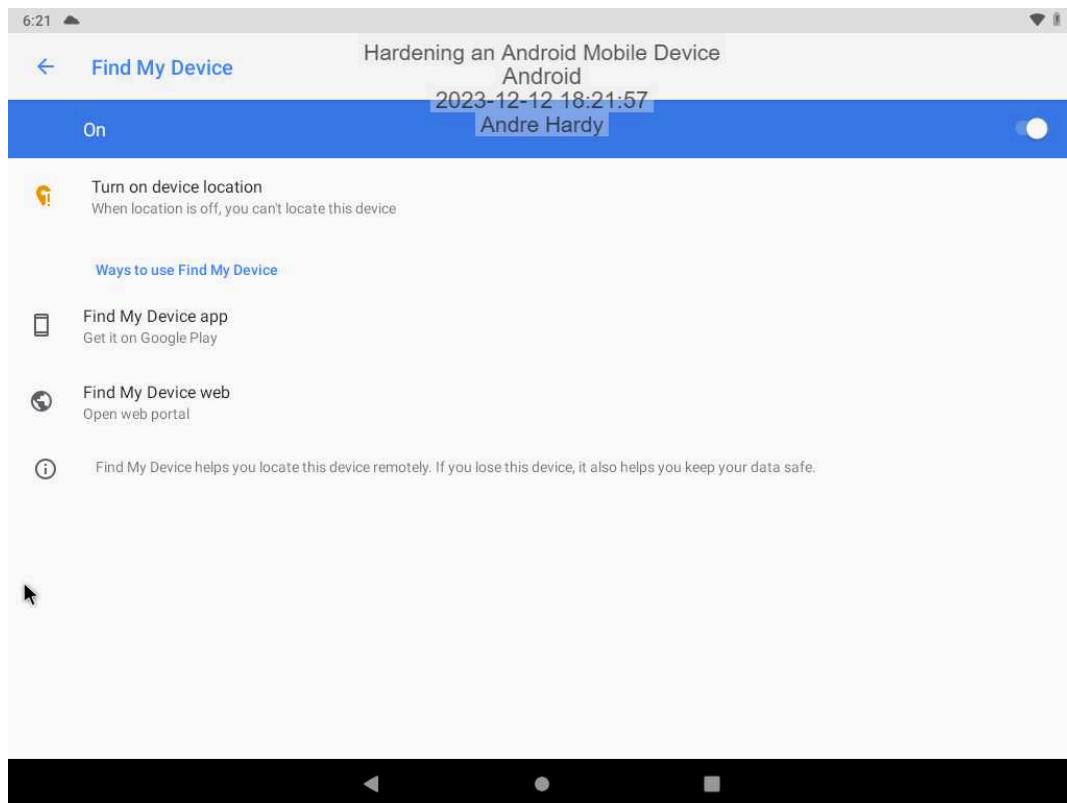
5. Make a screen capture showing the encryption set-up explanation.



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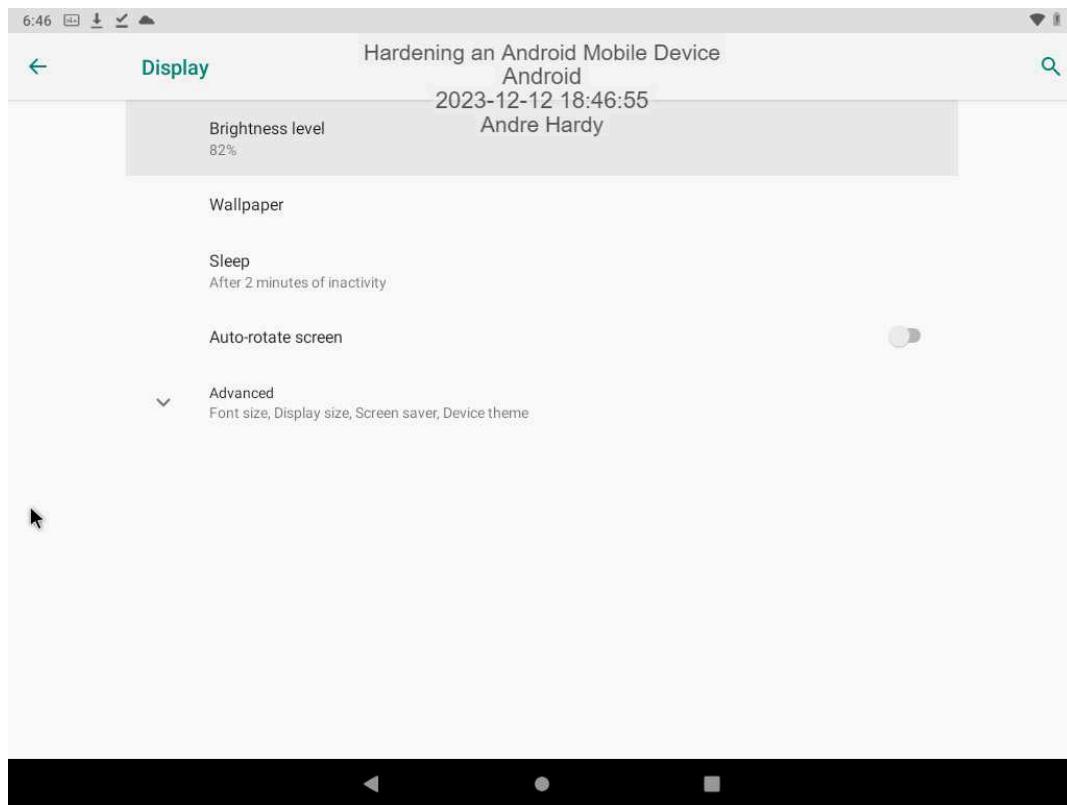
7. Make a screen capture showing the **Find My Device** settings.



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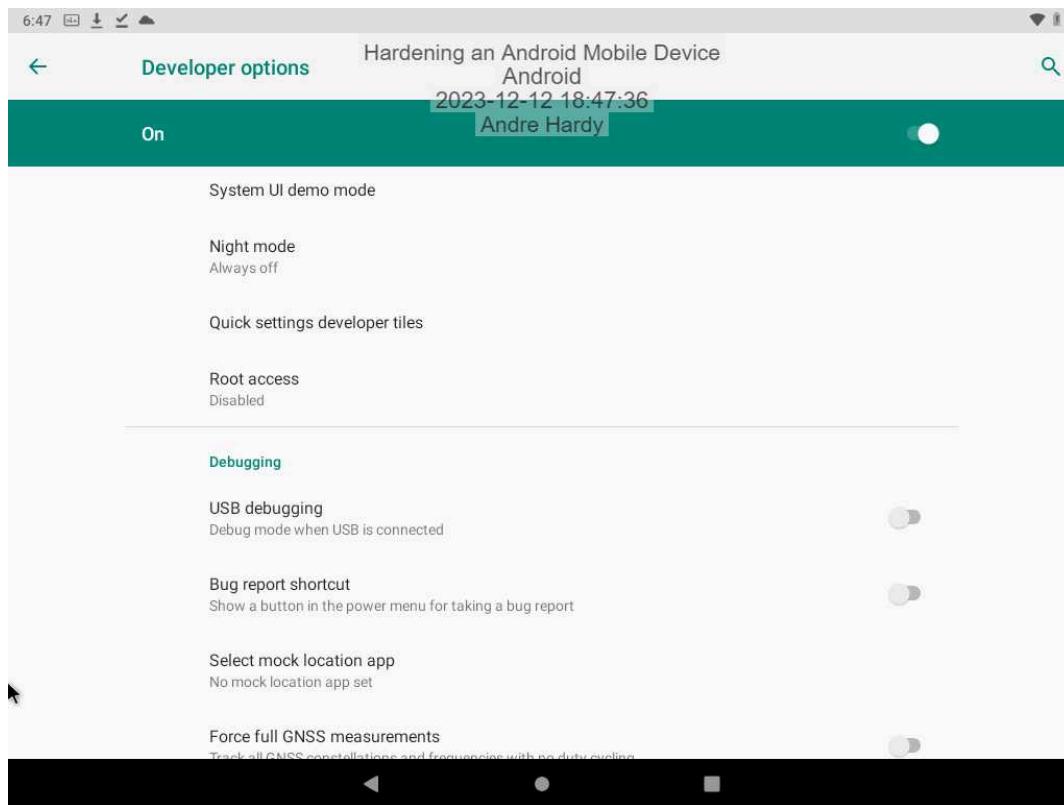
11. Make a screen capture showing the **Display settings** with the updated auto-lock timer.



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

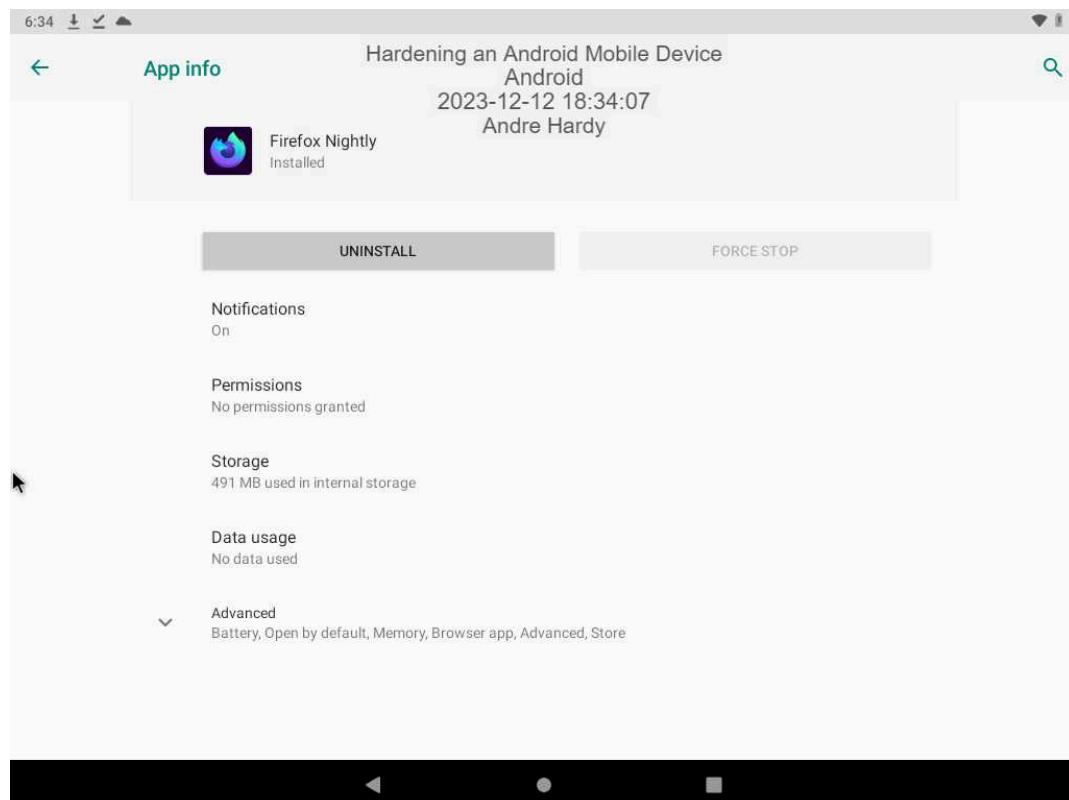


Part 2: Test and Disable App Sideloaded

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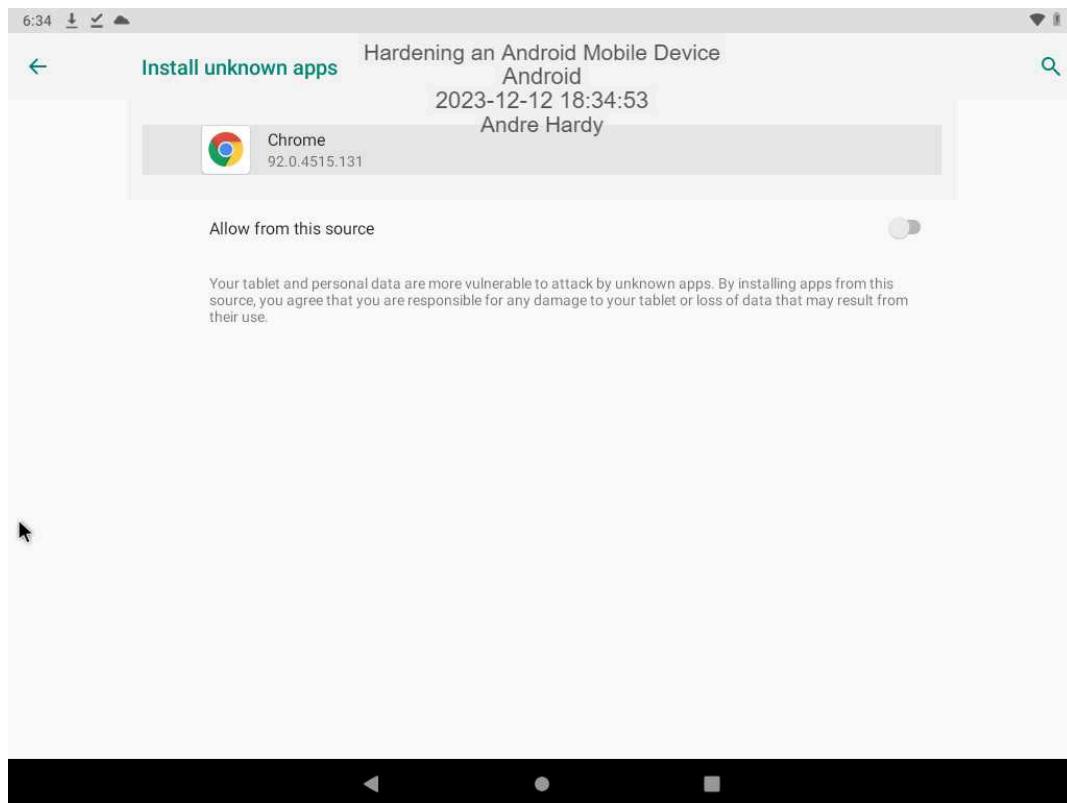
11. Make a screen capture showing the Firefox Nightly app details.



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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.

The screenshot shows a terminal window on an Android device. The title bar says "Window 1" and "Hardening an Android Mobile Device". The status bar at the top shows the date and time: "2023-12-12 18:36:52" and the user name "Andre Hardy". The terminal content displays the output of the "cat /proc/cpuinfo" command, which lists various CPU specifications. Key details include:

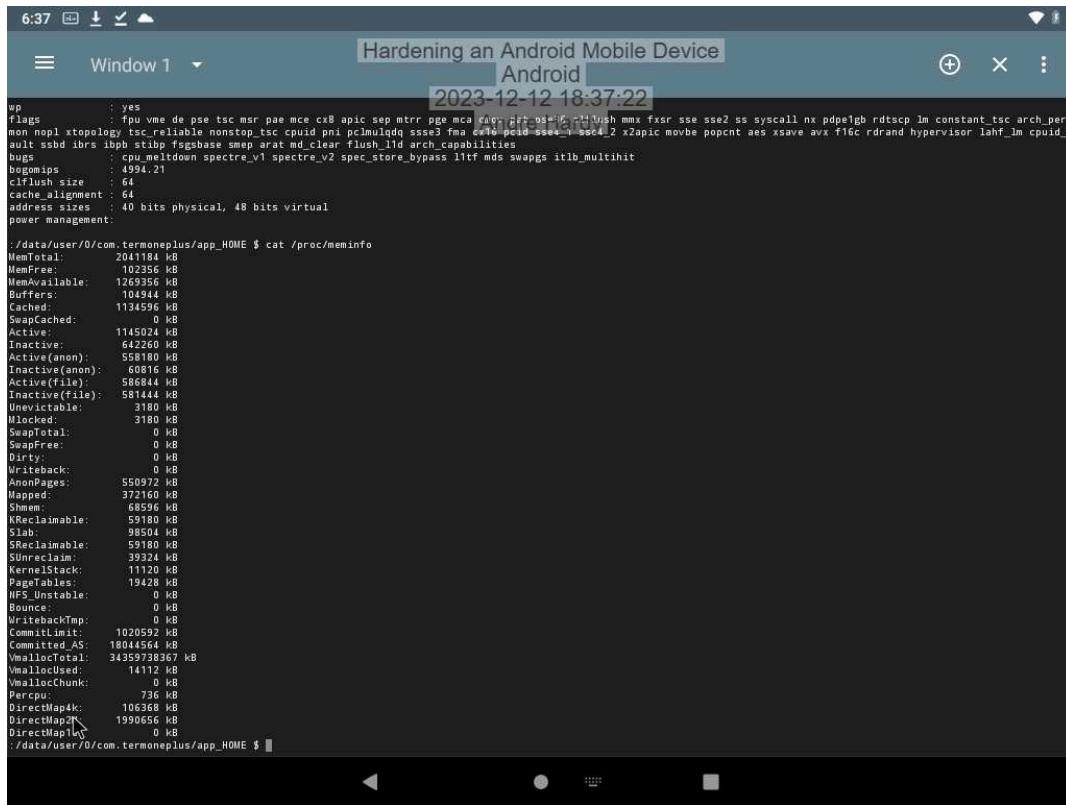
- Processor: Intel(R) Xeon(R) CPU E5-2680 v3 @ 2.50GHz
- Clock Speed: 2497.108 MHz
- Cache Size: 30720 KB
- Core ID: 0
- Siblings: 1
- CPU Cores: 1
- Apicid: 0
- Initial Apicid: 0
- Fpu: Yes
- Fpu Exception: Yes
- Cpuid Level: 15
- Wp: Yes
- Flags: fpu vme de pse tsc msr pae mce cx8 apic sep mtrr pge mca cmov pat pse36 clflush mmx fxsr sse sse2 ss syscall nx pdpe1gb rdtscp lm constant_tsc arch_perf
- Bugs: cpu_meltdown spectre_v1 spectre_v2 spec_store_bypass lltf 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: 33
- 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
- Bugs: cpu_meltdown spectre_v1 spectre_v2 spec_store_bypass lltf mds swapgs itlb_multihit
- Bogomips: 4994.21
- Clflush Size: 64
- Cache Alignment: 64
- Address Sizes: 40 bits physical, 48 bits virtual
- Power Management:

The command prompt at the bottom is "data/user/0/com.termoneplus/app_HOME \$".

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



```
6:37  Window 1 Hardening an Android Mobile Device
2023-12-12 18:37:22
wp : yes
flags : fpu vme de pse tsc msr pae mce cx8 apic sep mtrr pge mca clflush mmx fxsr sse sse2 ss syscall nx pdpe1gb rdtsscp lm constant_tsc arch_perf
mon nopl xtTopology tsc_reliable nonstop_tsc cpuid_pni pclmulqdq sse3 fma cmov peaid ssse3 ssse4_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 $ cat /proc/meminfo
MemTotal:       2041184 kB
MemFree:        102356 kB
MemAvailable:   1269356 kB
Buffers:         104944 kB
Cached:         1134517 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
WritebackTmp:    0 kB
AnonPages:       550972 kB
Mapped:          372160 kB
Shmem:           68596 kB
NReclaimable:   59180 kB
Slab:            98504 kB
SReclaimable:   59180 kB
SUnreclaim:     39324 kB
KernelStack:    11120 kB
PageTables:     19428 kB
HFS_Unstable:    0 kB
Bounce:          0 kB
CommitLimit:    1020592 kB
Committed_AS:   18044564 kB
VmallocTotal:    34359738367 kB
VmallocUsed:     14112 kB
VmallocChunk:    0 kB
Percpu:          736 kB
DirectMap4k:    106368 kB
DirectMap2M:    1990656 kB
DirectMap1G:      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.

