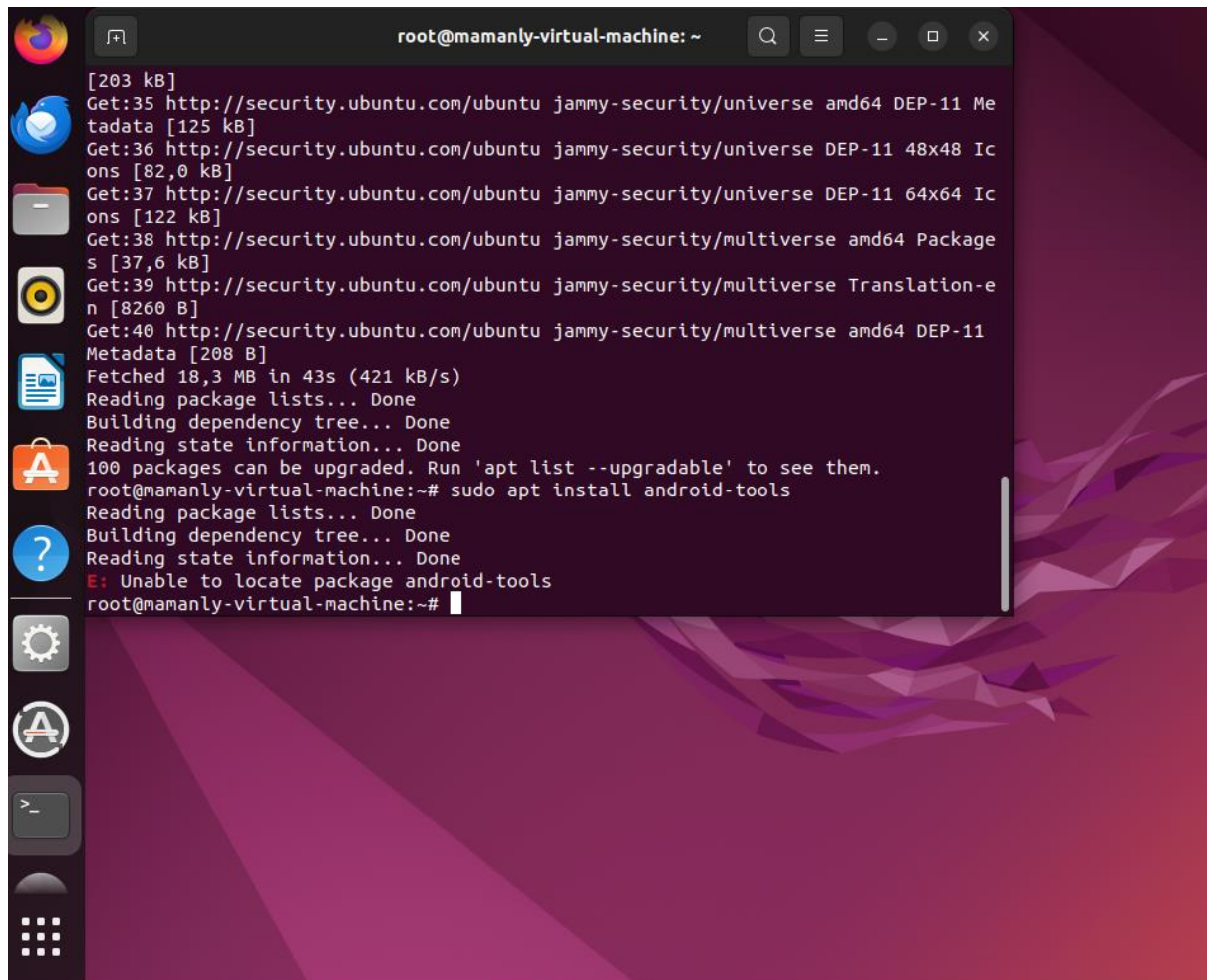


TP sur l'acquisition des données mobiles avec Android Deby bridge (ADB)

Etape d'acquisition des données ADB

1. Verification de la connexion
2. Connectons le telephone android à l'ordinateur USB
3. Nous allons ouvrir notre terminal ubuntu pour tapez la commande suivante

Adb devices



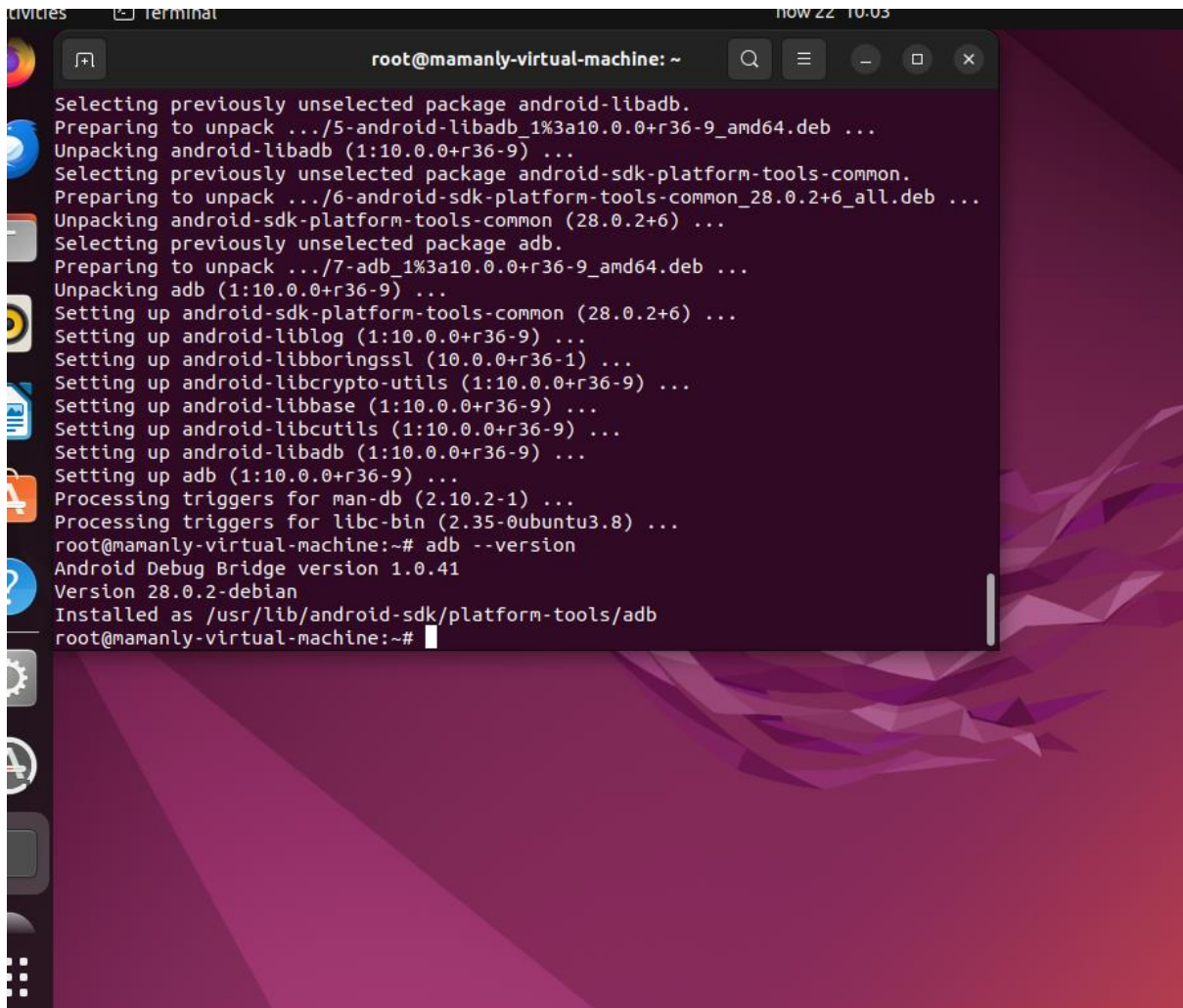
The screenshot shows a terminal window titled 'root@mamanly-virtual-machine: ~'. The terminal output displays the progress of an 'apt install' command. It lists several packages being fetched from security.ubuntu.com, including 'jammy-security/universe amd64 DEP-11 Metadata' and 'jammy-security/multiverse amd64 Packages'. The output shows that 18.3 MB were fetched in 43 seconds at a rate of 421 kB/s. After reading package lists and building the dependency tree, it states that 100 packages can be upgraded. The command 'sudo apt install android-tools' is entered, and the terminal shows the progress of installing 'android-tools'. However, the installation fails with the error 'E: Unable to locate package android-tools'.

```
root@mamanly-virtual-machine: ~  
[203 kB]  
Get:35 http://security.ubuntu.com/ubuntu jammy-security/universe amd64 DEP-11 Me  
tadata [125 kB]  
Get:36 http://security.ubuntu.com/ubuntu jammy-security/universe DEP-11 48x48 Ic  
ons [82,0 kB]  
Get:37 http://security.ubuntu.com/ubuntu jammy-security/universe DEP-11 64x64 Ic  
ons [122 kB]  
Get:38 http://security.ubuntu.com/ubuntu jammy-security/multiverse amd64 Package  
s [37,6 kB]  
Get:39 http://security.ubuntu.com/ubuntu jammy-security/multiverse Translation-e  
n [8260 B]  
Get:40 http://security.ubuntu.com/ubuntu jammy-security/multiverse amd64 DEP-11  
Metadata [208 B]  
Fetched 18,3 MB in 43s (421 kB/s)  
Reading package lists... Done  
Building dependency tree... Done  
Reading state information... Done  
100 packages can be upgraded. Run 'apt list --upgradable' to see them.  
root@mamanly-virtual-machine:~# sudo apt install android-tools  
Reading package lists... Done  
Building dependency tree... Done  
Reading state information... Done  
E: Unable to locate package android-tools  
root@mamanly-virtual-machine:~#
```

Nous qavons tapez la commande sudo apt install android-tools

```
root@mamanly-virtual-machine: ~  
Preparing to unpack .../4-android-libcutils_1%3a10.0.0+r36-9_amd64.deb ...  
Unpacking android-libcutils (1:10.0.0+r36-9) ...  
Selecting previously unselected package android-libadb.  
Preparing to unpack .../5-android-libadb_1%3a10.0.0+r36-9_amd64.deb ...  
Unpacking android-libadb (1:10.0.0+r36-9) ...  
Selecting previously unselected package android-sdk-platform-tools-common.  
Preparing to unpack .../6-android-sdk-platform-tools-common_28.0.2+6_all.deb ...  
Unpacking android-sdk-platform-tools-common (28.0.2+6) ...  
Selecting previously unselected package adb.  
Preparing to unpack .../7-adb_1%3a10.0.0+r36-9_amd64.deb ...  
Unpacking adb (1:10.0.0+r36-9) ...  
Setting up android-sdk-platform-tools-common (28.0.2+6) ...  
Setting up android-liblog (1:10.0.0+r36-9) ...  
Setting up android-libboringssl (10.0.0+r36-1) ...  
Setting up android-libcrypto-utils (1:10.0.0+r36-9) ...  
Setting up android-libbase (1:10.0.0+r36-9) ...  
Setting up android-libcutils (1:10.0.0+r36-9) ...  
Setting up android-libadb (1:10.0.0+r36-9) ...  
Setting up adb (1:10.0.0+r36-9) ...  
Processing triggers for man-db (2.10.2-1) ...  
Processing triggers for libc-bin (2.35-0ubuntu3.8) ...  
root@mamanly-virtual-machine:~#
```

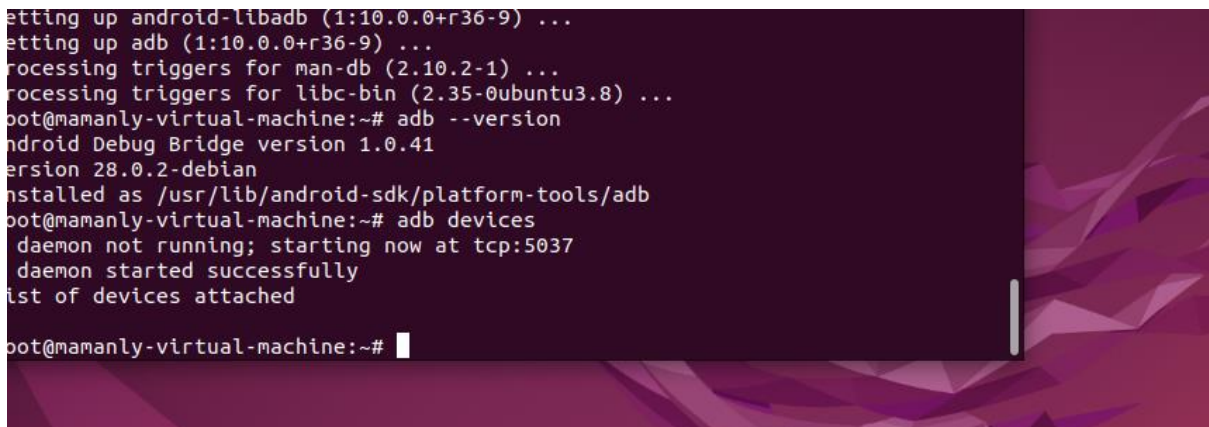
Nous avons installer ADB dans dans le terminal en tapant APT INSTALL ADB

A terminal window titled 'root@mamanly-virtual-machine: ~' showing the installation of Android SDK platform tools and adb. The output includes package selection, unpacking, and setting up various components. The final command 'adb --version' shows 'Android Debug Bridge version 1.0.41' and the installation path '/usr/lib/android-sdk/platform-tools/adb'.

```
root@mamanly-virtual-machine: ~
Selecting previously unselected package android-libadb.
Preparing to unpack .../5-android-libadb_1%3a10.0.0+r36-9_amd64.deb ...
Unpacking android-libadb (1:10.0.0+r36-9) ...
Selecting previously unselected package android-sdk-platform-tools-common.
Preparing to unpack .../6-android-sdk-platform-tools-common_28.0.2+6_all.deb ...
Unpacking android-sdk-platform-tools-common (28.0.2+6) ...
Selecting previously unselected package adb.
Preparing to unpack .../7-adb_1%3a10.0.0+r36-9_amd64.deb ...
Unpacking adb (1:10.0.0+r36-9) ...
Setting up android-sdk-platform-tools-common (28.0.2+6) ...
Setting up android-liblog (1:10.0.0+r36-9) ...
Setting up android-libboringssl (10.0.0+r36-1) ...
Setting up android-libcrypto-utils (1:10.0.0+r36-9) ...
Setting up android-libbase (1:10.0.0+r36-9) ...
Setting up android-libcutils (1:10.0.0+r36-9) ...
Setting up android-libadb (1:10.0.0+r36-9) ...
Setting up adb (1:10.0.0+r36-9) ...
Processing triggers for man-db (2.10.2-1) ...
Processing triggers for libc-bin (2.35-0ubuntu3.8) ...
root@mamanly-virtual-machine:~# adb --version
Android Debug Bridge version 1.0.41
Version 28.0.2-debian
Installed as /usr/lib/android-sdk/platform-tools/adb
root@mamanly-virtual-machine:~#
```

Nous avons verifiez la version adoptez ant de continuer

ADB devices

A terminal window showing the command 'adb devices' and its output. The output indicates that the daemon is not running and starts successfully. The list of devices attached is empty.

```
root@mamanly-virtual-machine:~# adb devices
daemon not running; starting now at tcp:5037
daemon started successfully
List of devices attached
root@mamanly-virtual-machine:~#
```

Apres cela nous allons verifiez la commande

```
Windows PowerShell
Copyright (C) Microsoft Corporation. Tous droits réservés.

Installez la dernière version de PowerShell pour de nouvelles fonctionnalités et améliorations ! https://aka.ms/PSWindows

PS C:\Users\parra> adb devices
* daemon not running; starting now at tcp:5037
* daemon started successfully
List of devices attached

PS C:\Users\parra> adb --version
Android Debug Bridge version 1.0.41
Version 35.0.2-12147458
Installed as C:\Users\parra\Downloads\platform-tools\adb.exe
Running on Windows 10.0.22631

PS C:\Users\parra> adb
Android Debug Bridge version 1.0.41
Version 35.0.2-12147458
Installed as C:\Users\parra\Downloads\platform-tools\adb.exe
Running on Windows 10.0.22631

global options:
-a                listen on all network interfaces, not just localhost
-d                use USB device (error if multiple devices connected)
-e                use TCP/IP device (error if multiple TCP/IP devices available)
-s SERIAL         use device with given serial (overrides $ANDROID_SERIAL)
-t ID             use device with given transport id
-H               name of adb server host [default=localhost]
-P               port of adb server [default=5037]
-L SOCKET         listen on given socket for adb server [default=tcp:localhost:5037]
--one-device SERIAL[USB device address.
--exit-on-write-error exit if stdout is closed

general commands:
devices [-l]      list connected devices (-l for long output)
help              show this help message
version           show version num

networking:
connect HOST[:PORT] connect to a device via TCP/IP [default port=5555]
```

```
Windows PowerShell

[vendor.ril.fdd.mode]: [1]
[vendor.ril.ipo.radiooff]: [0]
[vendor.ril.mtk]: [1]
[vendor.ril.mtk_hvolte_indicator]: [0,0]
[vendor.ril.mux.ee.mdl]: [0]
[vendor.ril.mux.report.case]: [0]
[vendor.ril.mux.start]: [0]
[vendor.ril.muxreport.run]: [0]
[vendor.ril.no.smsc.1]: [0]
[vendor.ril.no.smsc.2]: [0]
[vendor.ril.nr.type]: [0]
[vendor.ril.nw.signalstrength.lte.1]: [-97,4]
[vendor.ril.nw.signalstrength.lte.2]: [-104,11]
[vendor.ril.nw.worldmode.activemode]: [1]
[vendor.ril.nw.worldmode.keep_3g_mode]: [0]
[vendor.ril.rc.session.id1]: [-1]
[vendor.ril.sim.onoff.support]: [1]
[vendor.ril.sim.uicc.applications.enable.state]: [0]
[vendor.ril.sim.uicc.applications.enable.state.2]: [0]
[vendor.ril.simsimswitch.no_reset.support]: [1]
[vendor.ril.simsimswitch.tplus.support]: [1]
[vendor.ril.special.ecclist]: []
[vendor.ril.special.ecclist1]: []
[vendor.service.nvram_init]: [Ready]
[vendor.soter.teei.googlekey.model]: [gust]
[vendor.soter.teei.googlekey.status]: [ok]
[vendor.soter.teei.init]: [INIT_OK]
[vendor.soter.teei.logini]: [start]
[vendor.soter.teei.persist]: [OPEN]
[vendor.soter.teei.rpmc.flag]: [ok]
[vendor.soter.teei.thh.info]: [{"version":"2.0","st_thh":false,"st_wechat":true,"st_ifaa":false}]
[vendor.sys.feature.state]: [255]
[vendor.sys.rpmc.state]: [22]
[vendor.sys.vm.extrafreembytes]: [45375]
[vendor.wlan.driver.version]: [1_0_1]
[vendor.wlan.firmware.version]: [t-neptune-mp-soc1_0e1-2015-tc8sp-TALBOT_SOC1_0_E1_ASIC-20230201121711]
[vold.has_adoptable]: [1]
[vold.has_compress]: [0]
[vold.has_quota]: [1]
[vold.has_reserved]: [1]
PS C:\Users\parra>
```

ADB SHELL GETPROP

Cela fournit des informations comme la marque , le modele la version d'Android

EXPORTER LES SMS

```
Windows PowerShell
[void.has_quota]: [1]
[void.has_reserved]: [1]
PS C:\Users\parra> adb exec-out content query --uri content://sms/> sms backup.txt
usage: adb shell content [subcommand] [options]

usage: adb shell content insert --uri <URI> [--user <USER_ID>] [--bind <BINDING>] [--bind <BINDING>...] [--extra <BINDING>...]
<URI> a content provider URI.
<BINDING> binds a typed value to a column and is formatted:
<COLUMN_NAME>:<TYPE>:<COLUMN_VALUE> where:
<TYPE> specifies data type such as:
b - boolean, s - string, i - integer, l - long, f - float, d - double, n - null
Note: Omit the value for passing an empty string, e.g column:s
Example:
# Add "new_setting" secure setting with value "new_value".
adb shell content insert --uri content://settings/secure --bind name:s:new_setting --bind value:s:new_value

usage: adb shell content update --uri <URI> [--user <USER_ID>] [--where <WHERE>] [--extra <BINDING>...]
<WHERE> is a SQL style where clause in quotes (You have to escape single quotes - see example below).
Example:
# Change "new_setting" secure setting to "newer_value".
adb shell content update --uri content://settings/secure --bind value:s:newer_value --where "name='new_setting'"

usage: adb shell content delete --uri <URI> [--user <USER_ID>] [--bind <BINDING>] [--bind <BINDING>...] [--where <WHERE>] [--extra <BINDING>...]
Example:
# Remove "new_setting" secure setting.
adb shell content delete --uri content://settings/secure --where "name='new_setting'"

usage: adb shell content query --uri <URI> [--user <USER_ID>] [--projection <PROJECTION>] [--where <WHERE>] [--sort <SORT_ORDER>] [--extra <BINDING>...]
<PROJECTION> is a list of colon separated column names and is formatted:
<COLUMN_NAME>[:<COLUMN_NAME>...]
<SORT_ORDER> is the order in which rows in the result should be sorted.
Example:
# Select "name" and "value" columns from secure settings where "name" is equal to "new_setting" and sort the result by name in ascending order.
adb shell content query --uri content://settings/secure --projection name:value --where "name='new_setting'" --sort "name ASC"

usage: adb shell content call --uri <URI> --method <METHOD> [--arg <ARG>]
[--extra <BINDING> ...]
<METHOD> is the name of a provider-defined method
<ARG> is an optional string argument
<BINDING> is like --bind above, typed data of the form <KEY>:{b,s,i,l,f,d}:<VAL>
```

EXPORTER LES CONTACTS

```
Windows PowerShell
# Change "new_setting" secure setting to "newer value".
adb shell content update --uri content://settings/secure --bind value:s:newer_value --where "name='new_setting'"

usage: adb shell content delete --uri <URI> [--user <USER_ID>] [--bind <BINDING>] [--bind <BINDING>...] [--where <WHERE>] [--extra <BINDING>...]
Example:
# Remove "new_setting" secure setting.
adb shell content delete --uri content://settings/secure --where "name='new_setting'"

usage: adb shell content query --uri <URI> [--user <USER_ID>] [--projection <PROJECTION>] [--where <WHERE>] [--sort <SORT_ORDER>] [--extra <BINDING>...]
<PROJECTION> is a list of colon separated column names and is formatted:
<COLUMN_NAME>[:<COLUMN_NAME>...]
<SORT_ORDER> is the order in which rows in the result should be sorted.
Example:
# Select "name" and "value" columns from secure settings where "name" is equal to "new_setting" and sort the result by name in ascending order.
adb shell content query --uri content://settings/secure --projection name:value --where "name='new_setting'" --sort "name ASC"

usage: adb shell content call --uri <URI> --method <METHOD> [--arg <ARG>]
[--extra <BINDING> ...]
<METHOD> is the name of a provider-defined method
<ARG> is an optional string argument
<BINDING> is like --bind above, typed data of the form <KEY>:{b,s,i,l,f,d}:<VAL>

usage: adb shell content read --uri <URI> [--user <USER_ID>]
Example:
adb shell 'content read --uri content://settings/system/ringtone_cache' > host.ogg

usage: adb shell content write --uri <URI> [--user <USER_ID>]
Example:
adb shell 'content write --uri content://settings/system/ringtone_cache' < host.ogg

usage: adb shell content gettype --uri <URI> [--user <USER_ID>]
Example:
adb shell content gettype --uri content://media/internal/audio/media/

[ERROR] Unsupported argument: sms
PS C:\Users\parra> adb exec-out content query --uri content://contact/phones/ > contact_backup.txt
PS C:\Users\parra> adb exec-out content query --uri content://sms/ > sms_backup.txt
PS C:\Users\parra> adb exec-out content query --uri content://contact/phones/ > contact_backup.txt
PS C:\Users\parra>
PS C:\Users\parra> |
```

L'exportation des historique des appels

```
Windows PowerShell
adb shell content update --uri content://settings/secure --bind value:s:newer_value --where "name='new_setting'"

usage: adb shell content delete --uri <URI> [--user <USER_ID>] [--bind <BINDING>] [--bind <BINDING>...] [--where <WHERE>] [--extra <BINDING>...]
Example:
# Remove "new_setting" secure setting.
adb shell content delete --uri content://settings/secure --where "name='new_setting'"

usage: adb shell content query --uri <URI> [--user <USER_ID>] [--projection <PROJECTION>] [--where <WHERE>] [--sort <SORT_ORDER>] [--extra <BINDING>...]
<PROJECTION> is a list of colon separated column names and is formatted:
<COLUMN_NAME>[:<COLUMN_NAME>...]
<SORT_ORDER> is the order in which rows in the result should be sorted.
Example:
# Select "name" and "value" columns from secure settings where "name" is equal to "new_setting" and sort the result by name in ascending order.
adb shell content query --uri content://settings/secure --projection name:value --where "name='new_setting'" --sort "name ASC"

usage: adb shell content call --uri <URI> --method <METHOD> [--arg <ARG>]
[--extra <BINDING> ...]
<METHOD> is the name of a provider-defined method
<ARG> is an optional string argument
<BINDING> is like --bind above, typed data of the form <KEY>:{b,s,i,l,f,d}:<VAL>

usage: adb shell content read --uri <URI> [--user <USER_ID>]
Example:
adb shell 'content read --uri content://settings/system/ringtone_cache' > host.ogg

usage: adb shell content write --uri <URI> [--user <USER_ID>]
Example:
adb shell 'content write --uri content://settings/system/ringtone_cache' < host.ogg

usage: adb shell content gettype --uri <URI> [--user <USER_ID>]
Example:
adb shell content gettype --uri content://media/internal/audio/media/

[ERROR] Unsupported argument: sms
PS C:\Users\parra> adb exec-out content query --uri content://contact/phones/ > contact_backup.txt
PS C:\Users\parra> adb exec-out content query --uri content://sms/ > sms_backup.txt
PS C:\Users\parra> adb exec-out content query --uri content://contact/phones/ > contact_backup.txt
PS C:\Users\parra>
PS C:\Users\parra> adb exec-out content query --uri content://call log/call/ > call_log_backup.txt
PS C:\Users\parra> |
```