

Gdb debug for native service

- check whether aarch64-linux-android-gdb in following folder
android/prebuilts/gcc/linux-x86/aarch64/aarch64-linux-android-4.9/bin/
If not, you can clone following repo to get a copy
git clone <https://android.googlesource.com/platform/prebuilts/gcc/linux-x86/aarch64/aarch64-linux-android-4.8>
- download symbol files from pbs build
- unzip symbol files to a folder
- adb shell to device on terminal
- On the device, launch a new process:

```
gdbserver64 :5039 /system/bin/executable
```

or attach to an existing process:

```
gdbserver64 :5039 --attach pid
```

- On your workstation, forward port 5039 to the device with adb:

```
adb forward tcp:5039 tcp:5039
```

- start gdb client on your host workstation with the program you want to debug in the
symbols/system/bin/ folder
aarch64-linux-android-gdb out/target/product/product-name/symbols/system/bin/executable
- In gdb, Tell gdb where to find the shared libraries that will get loaded:

```
set solib-absolute-prefix /absolute-source-path/out/target/product/product-name/symbols  
set solib-search-path /absolute-source-path/out/target/product/product-name/symbols/system/lib
```

- Connect to the device by issuing the gdb command:

```
target remote :5039
```

- You may need to inspire gdb to load some symbols by typing:

```
shared
```