Building Android from source - emulator and AVDs [closed]

I have built the Android source for the emulator. I read in the Android Source documentation that the path to 'emulator' is added autmatically during a successful build. However I have two questions about this:

1. If I open a new shell or close my existing shell, 'emulator' is no longer found. Surely I don't have to build each time I want to run the emulator?

2. If the emulator requires an AVD how do I create and manage these given there is no Android SDK on my machine?

Thanks, Jack

SOLUTION to part 2.

I needed to create an environment variable called ANDROID_PRODUCT_OUT. From the the following command:

```
emulator -help-build-images
```

I read...

> The emulator detects that you are working from the Android build system by looking at the ANDROID_PRODUCT_OUT variable in your environment.
>
> If it is defined, it should point to the product-specific directory that contains the generated system images.

I then did a search for 'system.ing' in my 'out' directory. since I am building for the emulator the image was in:

```
out/target/product/generic
```

I added the following line to my .bashrc file:

```
export ANDROID_PRODUCT_OUT=/home/jack.wootton/code/out/target/product/generic
```

I was then able to run the emulator from:

```
/home/jack.wootton/code/out/host/linux-x86/bin
```

SOLUTION to part 1.

I don't know about Android Virtual Devices, so this question still stands - however I did not need to provide one to run the emulator after doing a successful build and setting the ANDROID_PRODUCT_OUT environment variable.

Update to solutions

Apparently variables such as ANDROID_PRODUCT_OUT should be automatically created during a build and using the envSetup.sh script. I guess something has gone wrong with my environment setup for this not to happen.

android   open-source   android-emulator   android-source

edited Mar 4 '12 at 10:58   asked Jul 29 '11 at 9:55
Yury   Jack
15.9k   6   41   72   **1,825**   4   30   58

closed as too broad by Kevin Brown, rene, durron597, TylerH, Infinite Recursion Jul 5 '15 at 8:06

Please edit the question to limit it to a specific problem with enough detail to identify an adequate answer. Avoid asking multiple distinct questions at once. See the How to Ask page for help clarifying this question.

If this question can be reworded to fit the rules in the help center, please edit the question.