

In this brief tutorial we will discuss how to add users to the linux rootfs

Step 1: Create HW:

I am using Vivado 2018.2 and targeting the ZCU102 board. I used the IPI to create a simple block design and used the Block Automation to set the Zynq Ultrascale IP to a preset for the ZCU102.

Generate Output Products, Create HDL wrapper, write bitstream and export to SDK to create the HDF file.

Step 2: Create the Linux Image:

I used Petalinux 2018.2:

- `petalinux-create -t project --template zynqMP -n adduser_linux`
- `cd adduser_linux`
- `petalinux-config --get-hw-description=<path to HDF file>`
- Update the recipes-core (See Appendix A)
- `petalinux-build`
- `cd images/linux`
- `petalinux-package --boot --u-boot`

Place the BOOT.BIN and image.ub onto a SD card and boot.

```
Petalinux 2018.2 adduser_linux /dev/ttyPS0
adduser_linux login: root
Password:
root@adduser_linux:~# whoami
root
root@adduser_linux:~# exit
logout

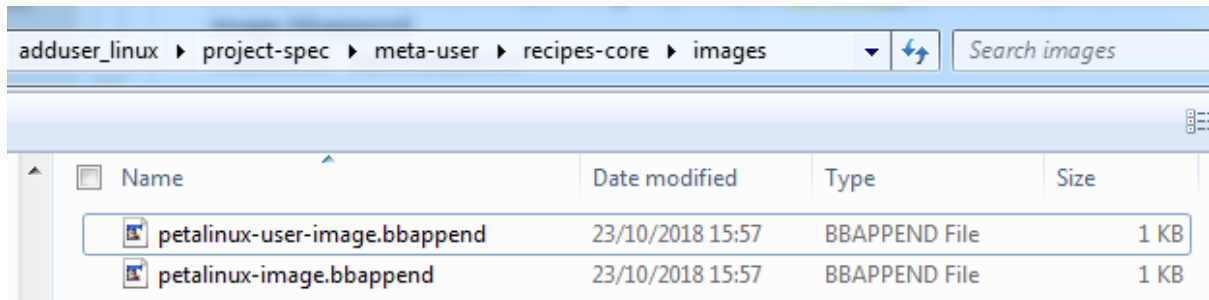
Petalinux 2018.2 adduser_linux /dev/ttyPS0
adduser_linux login: test1
Password:
adduser_linux:~$ whoami
test1
adduser_linux:~$ exit
logout

Petalinux 2018.2 adduser_linux /dev/ttyPS0
adduser_linux login: test2
Password:
adduser_linux:~$ whoami
test2
adduser_linux:~$ exit
logout

Petalinux 2018.2 adduser_linux /dev/ttyPS0
adduser_linux login:
```

Appendix A:

Open the `petalinux-user-image.bbappend`:



Add the content below:

```
inherit extrausers
```

```
EXTRA_USERS_PARAMS = "\  
    usermod -P root root; \  
    useradd -P test@123 test1; \  
    useradd -P test@987 test2; \  
"
```