



PLCnext

Linux Commands

Erase SD Flash Card

1061701

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1. Overview

1. SD Flash Card 8GB PLC Next Memory (1061701)
2. PLC Next AXC F 2152 (2404267)
3. Putty



2. General Information

1. Putty needs to be loaded on your computer.
2. PLC Next Engineer software.

2. Instructions

1. Turn off power to PLC Next then insert the flash card into the PLC.

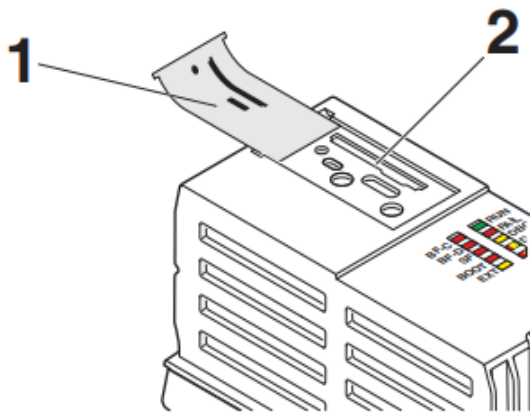
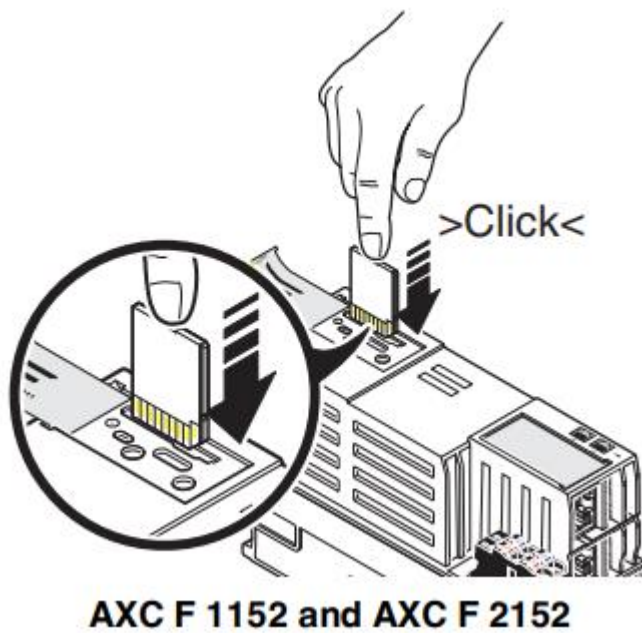


Figure 4-8 Removing the upper marking field of the AXC F 1152 and AXC F 2152



2. Power up the PLC Next



3. Log Into the PLC Next Web page (WBM) and verify if there is a current program on the controller. IP address example 192.168.1.10\wbm
Then log in with Username and Password

Deutsch English

PHOENIX CONTACT

Please login with your username and password.

Username

Password

Login

Hinweis:
Dieses Gerät darf nur von autorisierten Benutzern für autorisierte Zwecke verwendet werden. Ihre Anmeldeinformationen und alle Benutzeraktionen auf diesem Gerät können überwacht, aufgezeichnet, kopiert und auditiert werden.
Durch die weitere Verwendung dieses Geräts erklären Sie sich mit diesen Bedingungen einverstanden.

Notice:
This device may only be used by authorized users for authorized purposes. Your credentials and all user actions on this device can be monitored, recorded, copied and audited. By continuing to use this device, you agree to these terms.

4. When you have logged into the Webpage you will need to look at the top right of the page to find out if there is a project. (This step is not required but useful because if there is a project then you can come back and check to make sure the SD erase process worked)

Project Name:- - - - (No project)

Project Name:Test123 (Project on Flash)

See Below



Project Name: ---

AXC F 2152
2404267



+ Information

+ Diagnostics

- Configuration

Network

System Services

PLCnext Store

Proficloud Services

Web Services



Tip of the day

PLEASE check regularly:

- Product download area for FIRMWARE UPDATES
- PSIRT webpage for known SECURITY vulnerabilities

For more information see menu item "Help" (PLCnext Engineer and WBM).



No Project



Project Name: PLCnext_Technology_Starterkit_3

AXC F 2152
2404267



+ Information

+ Diagnostics

- Configuration

Network

System Services

PLCnext Store

Proficloud Services

Web Services



Tip of the day

PLEASE check regularly:

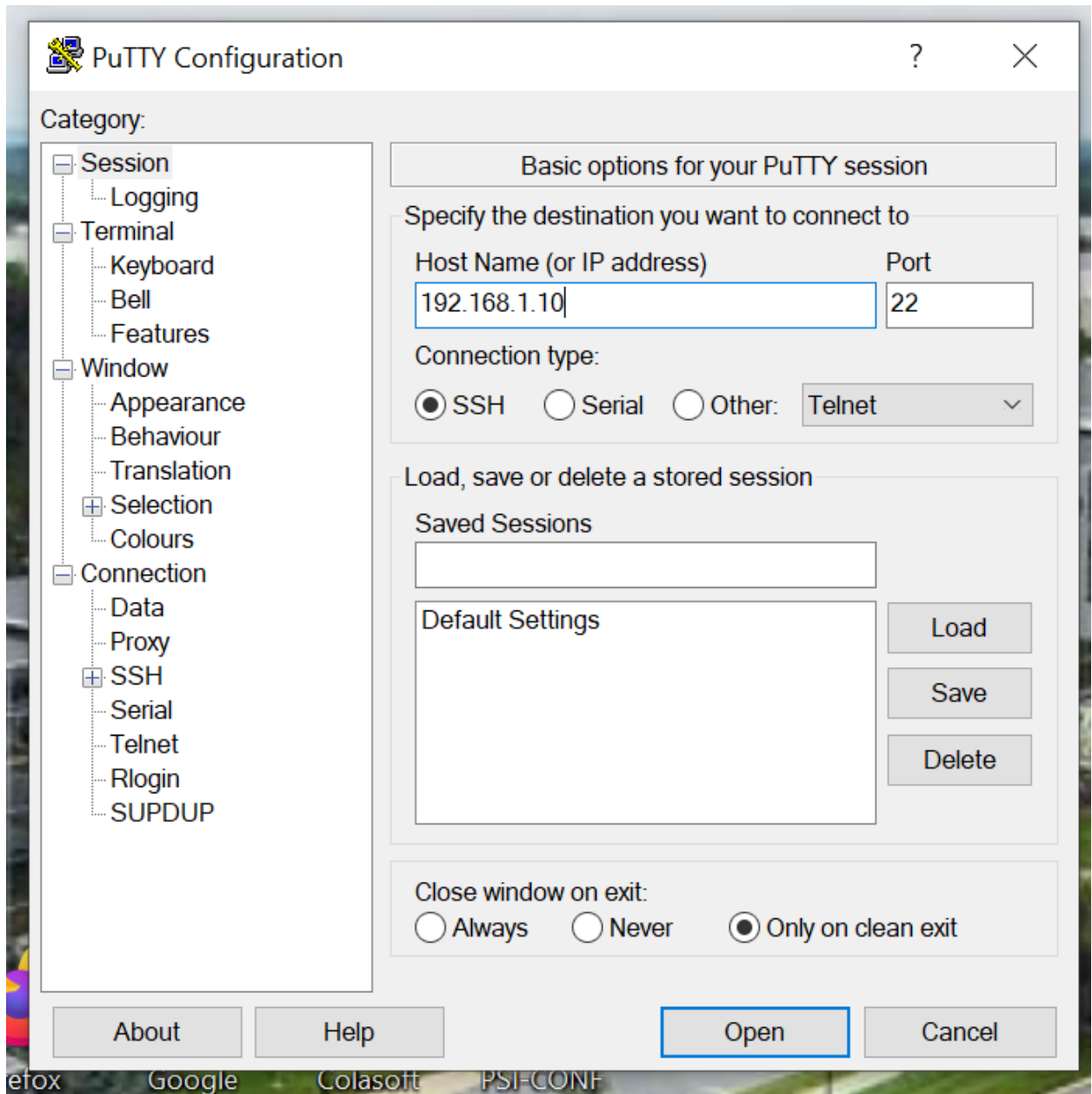
- Product download area for FIRMWARE UPDATES
- PSIRT webpage for known SECURITY vulnerabilities

For more information see menu item "Help" (PLCnext Engineer and WBM).



Current Project PLC_Next_Technology_Starterkit_3

5. Now you will need to run Putty (or some other)



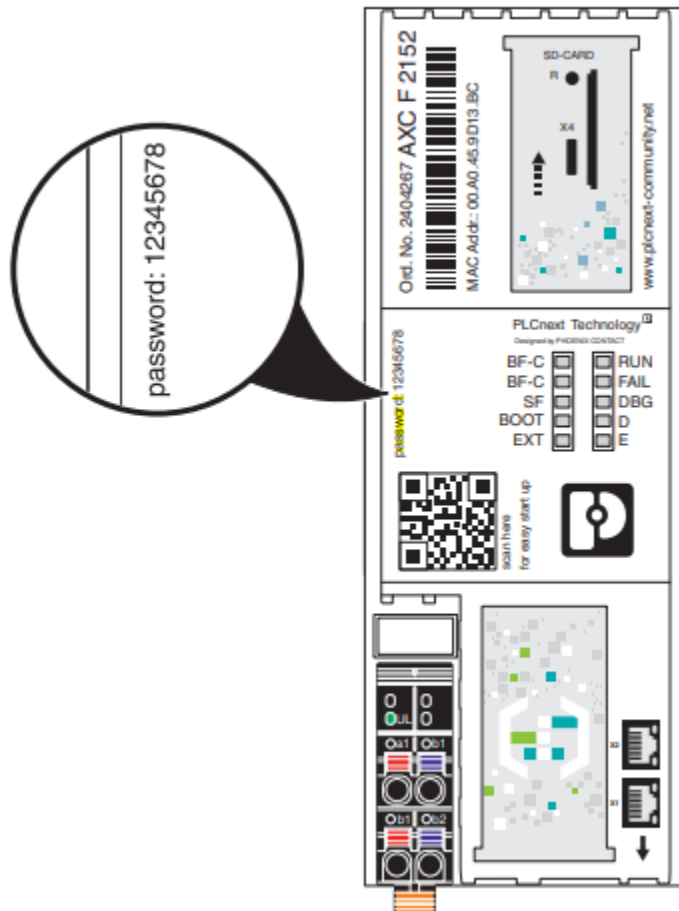
Enter IP address of your controller and then Enter.

Then the shell window will appear and you need to log in.

login as: admin

password: (Is located on front of the controller.) See below

NOTE: as you type the password it will not show on the screen. Just type is and then enter.



AXC F 1152 and AXC F 2152



You should be logged into the controller as below.

admin@axcf2152:~\$

e

```
192.168.1.10 - PuTTY
login as: admin
Pre-authentication banner message from server:
| Hinweis:
| Dieses Gerät darf nur von autorisierten Benutzern für autorisiert
e
| Zwecke verwendet werden. Ihre Anmeldeinformationen und alle
| Benutzeraktionen auf diesem Gerät können überwacht,
| aufgezeichnet, kopiert und auditiert werden.
| Durch die weitere Verwendung dieses Geräts erklären
| Sie sich mit diesen Bedingungen einverstanden.
|
| Notice:
| This device may only be used by authorized users for authorized
| purposes. Your credentials and all user actions on this device
| can be monitored, recorded, copied and audited. By continuing to
| use this device, you agree to these terms.
|
End of banner message from server
admin@192.168.1.10's password:
admin@axcf2152:~$
```

Now you will have to setup root user and password.

Type in (sudo passwd root) then enter

admin@axcf2152:~\$ **sudo passwd root**

Password: (this password is the one on front of controller)


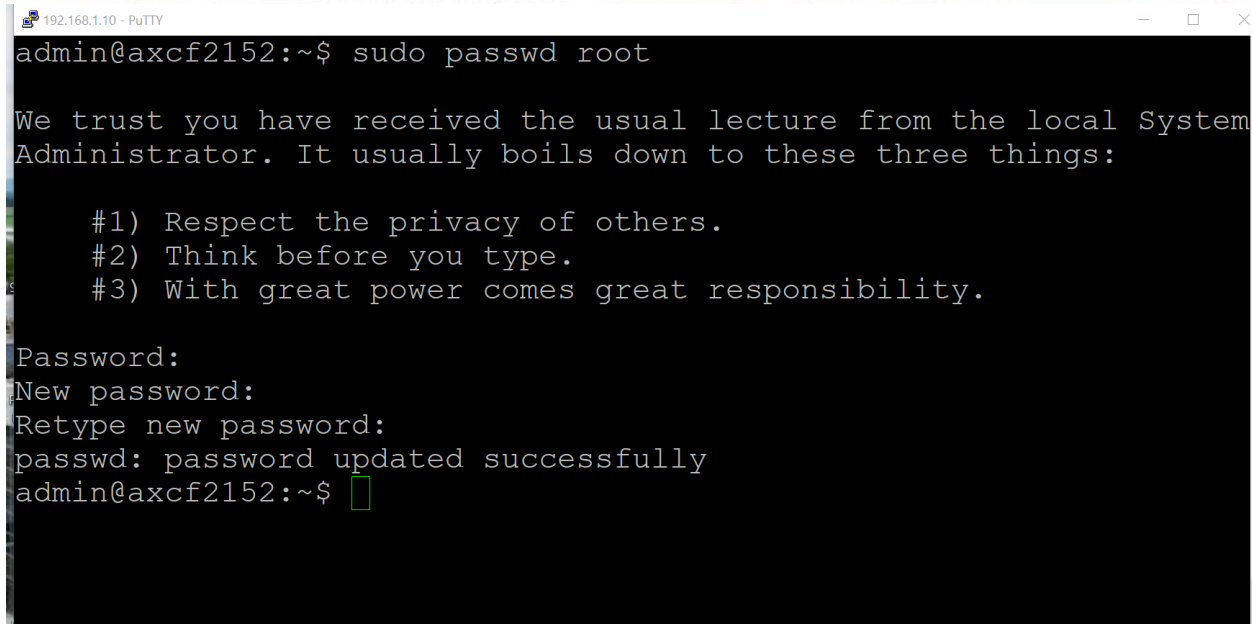
New Password: (this is the root user password) Example private

Retype new password: (this is the root user password) Must match above password.

You should get this return

passwd: password update successfully

admin@axcf2152:~\$ (you are still logged in as admin. Now you need to Login as root)

```
192.168.1.10 - PuTTY
admin@axcf2152:~$ sudo passwd root

We trust you have received the usual lecture from the local System
Administrator. It usually boils down to these three things:

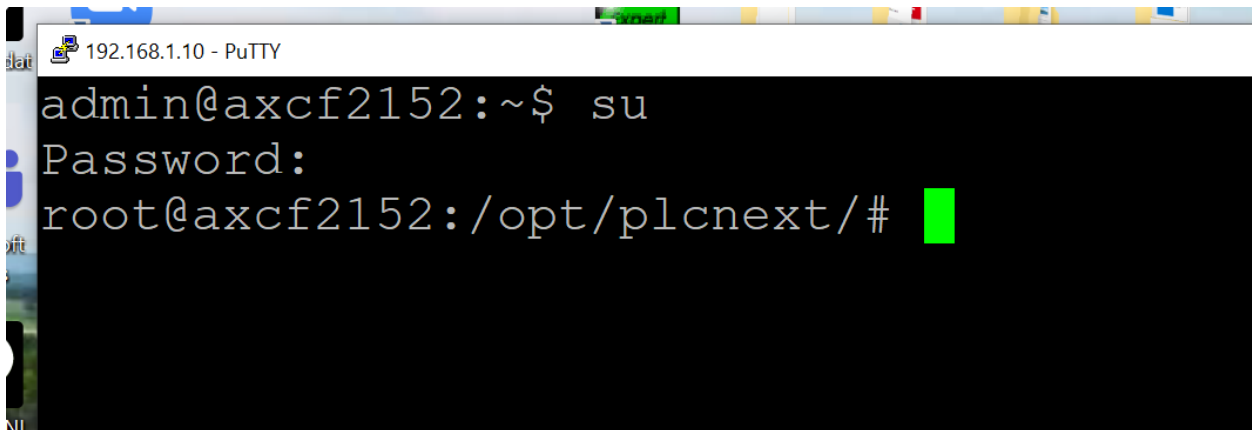
    #1) Respect the privacy of others.
    #2) Think before you type.
    #3) With great power comes great responsibility.

Password:
New password:
Retype new password:
passwd: password updated successfully
admin@axcf2152:~$
```

Now to login as root user.

Type this (**su enter then the password you just made**)

You will see you are logged in as root



```
192.168.1.10 - PuTTY
admin@axcf2152:~$ su
Password:
root@axcf2152:/opt/plcnext/#
```

Now we will go to the Flash files below.



First we go to the correct directory. (**cd /media/rfs/externalsd**)

We do ls cmd to list files. We are looking for **upperdir** and **work**

Then we do the remove cmd to delete **upperdir** and **work**

cmd **rm -r upperdir work**

Then we do another ls cmd to list the files to make sure **upperdir** and **work** have been removed.

```
192.168.1.10 - PuTTY
admin@axcf2152:~$ su
Password:
root@axcf2152:/opt/plcnext/# cd /media/rfs/externalsd
root@axcf2152:/media/rfs/externalsd# ls
licence  lost+found  upperdir  var  work
root@axcf2152:/media/rfs/externalsd# rm -r upperdir work
root@axcf2152:/media/rfs/externalsd# ls
licence  lost+found  var
root@axcf2152:/media/rfs/externalsd#
```

Now you need to do a Reboot command

Cmd (**recover-axcf2152 1**) (The 1 is for Type 1 reset)

Your controller will do a reset and your flash card is now clean. You can also log back into the controller WBM to make sure your program is gone.

```
192.168.1.10 - PuTTY
root@axcf2152:/media/rfs/externalsd# recover-axcf2152 1
Start recovery --> Enter runlevel 6
root@axcf2152:/media/rfs/externalsd#
```

Project Name: ---