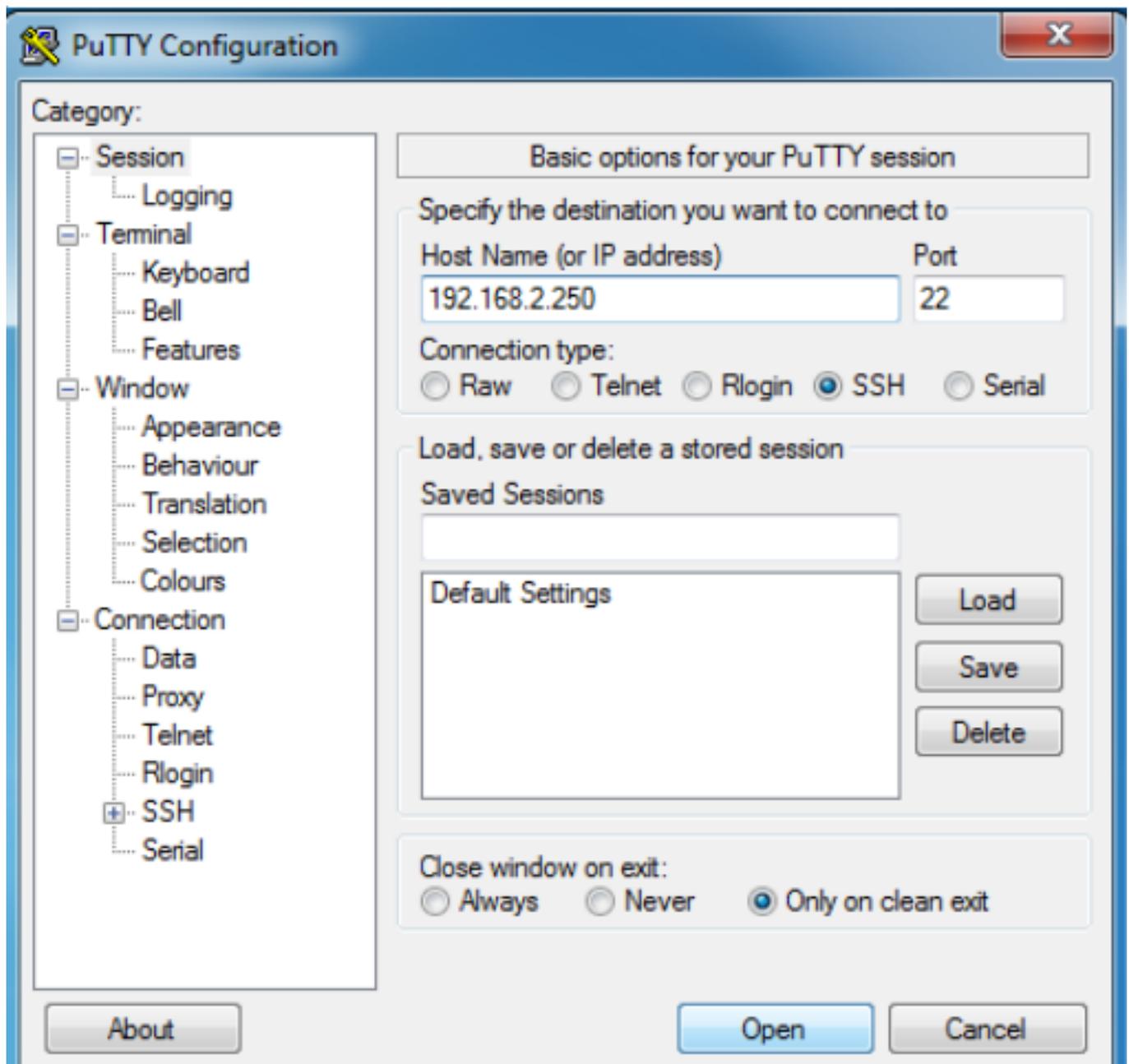


## I-Bottle

### [How to Log in to I-Bottle](#)

You can use PuTTY to log into your I-Bottle on a Windows machine. First, open the PuTTY application. Enter the IP address in the Host/IP text field and click Open.



The PuTTY application will ask you to log in. Use these credentials:

login: root

password: oh2BnVT

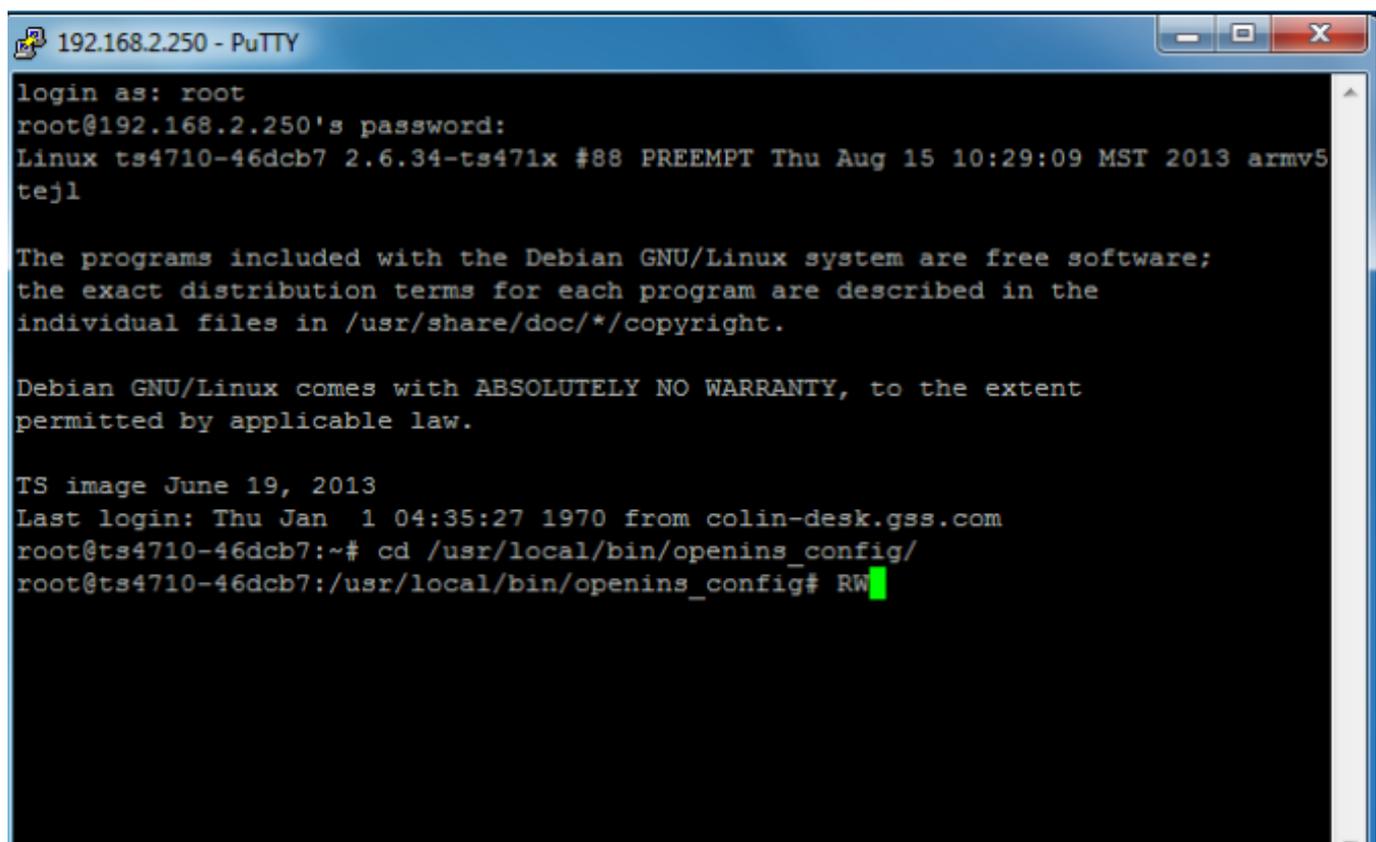
The screen will show a command prompt with you logged in as root@ the IP address of your bottle.

## I-Bottle

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From here you can navigate to directories as needed.

A screenshot of a PuTTY terminal window titled "192.168.2.250 - PuTTY". The terminal shows a login session as root on a Linux system. The output includes the login prompt, password prompt, system information (Linux ts4710-46dcb7 2.6.34-ts471x #88 PREEMPT Thu Aug 15 10:29:09 MST 2013 armv5tejl), a notice about Debian GNU/Linux software being free, a warranty disclaimer, and system boot information (TS image June 19, 2013; Last login: Thu Jan 1 04:35:27 1970 from colin-desk.gss.com). The user then navigates to the directory /usr/local/bin/openins\_config/ and enters the command RW, which is partially visible as "RW" with a green cursor.

```
login as: root
root@192.168.2.250's password:
Linux ts4710-46dcb7 2.6.34-ts471x #88 PREEMPT Thu Aug 15 10:29:09 MST 2013 armv5tejl

The programs included with the Debian GNU/Linux system are free software;
the exact distribution terms for each program are described in the
individual files in /usr/share/doc/*/copyright.

Debian GNU/Linux comes with ABSOLUTELY NO WARRANTY, to the extent
permitted by applicable law.

TS image June 19, 2013
Last login: Thu Jan 1 04:35:27 1970 from colin-desk.gss.com
root@ts4710-46dcb7:~# cd /usr/local/bin/openins_config/
root@ts4710-46dcb7:/usr/local/bin/openins_config# RW
```

## [Editing I-Bottle Config File](#)

Open PuTTY and Enter the IP address of the I-Bottle: 192.168.2.250. Click Open. PuTTY should prompt you for the login information: login: root

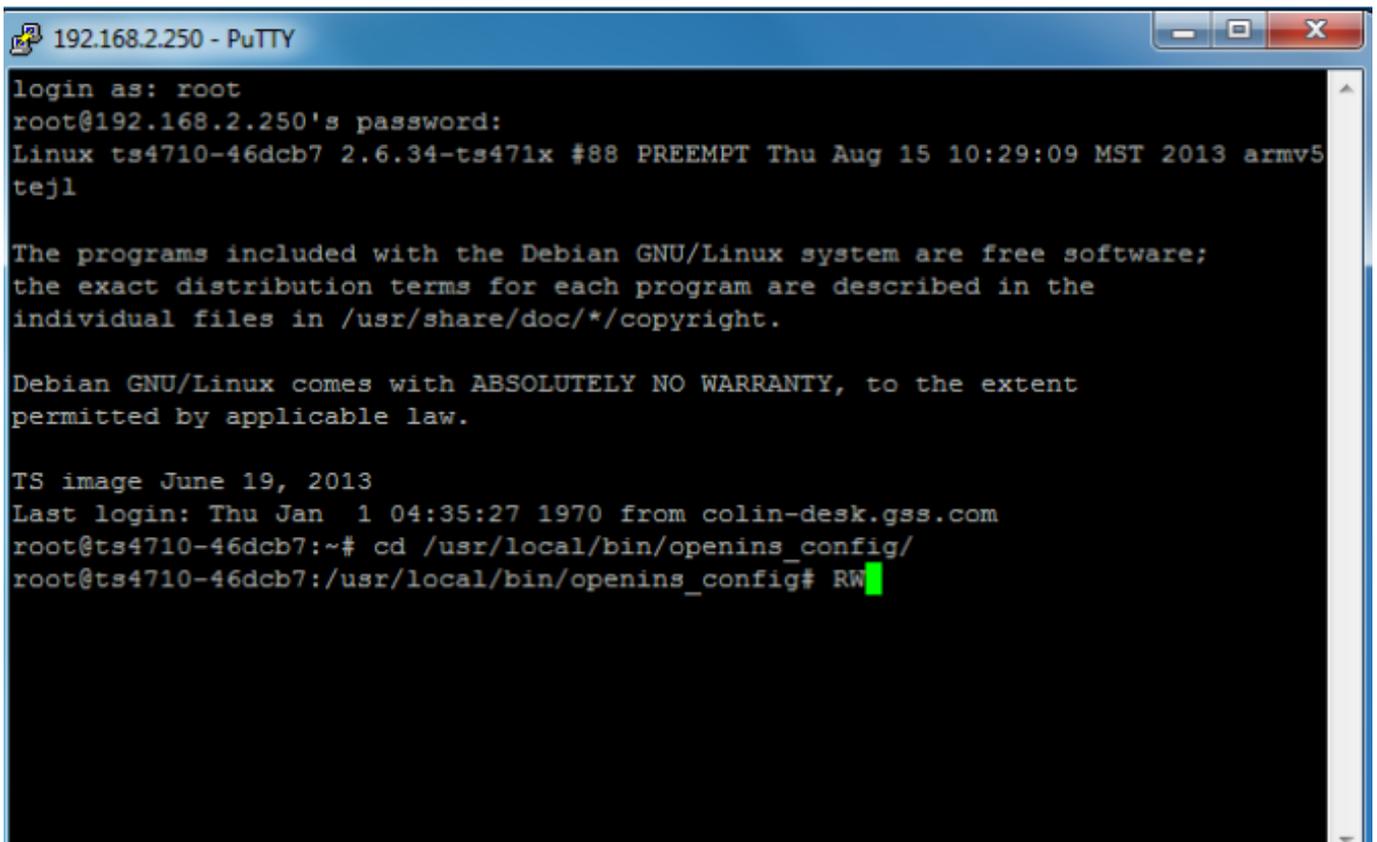
1. password: oh2BnVT

Change the directory to the folder containing the transformation file using the following command:

```
cd /usr/local/bin/openins_config
```

On boot, the system is mounted as Read Only. To edit the file you must mount the file system as Read Write. It is very important not to power the system off as Read Write, this may cause file system corruption and will force you to restore the file system. To mount the file system as Read Write use the command: RW. To mount the file system as Read Only use the command: RO. Edit the transformation file using the text editor nano with the following command:

```
nano ./openins_xforms.yml
```



```
192.168.2.250 - PuTTY
login as: root
root@192.168.2.250's password:
Linux ts4710-46dcb7 2.6.34-ts471x #88 PREEMPT Thu Aug 15 10:29:09 MST 2013 armv5
tejl

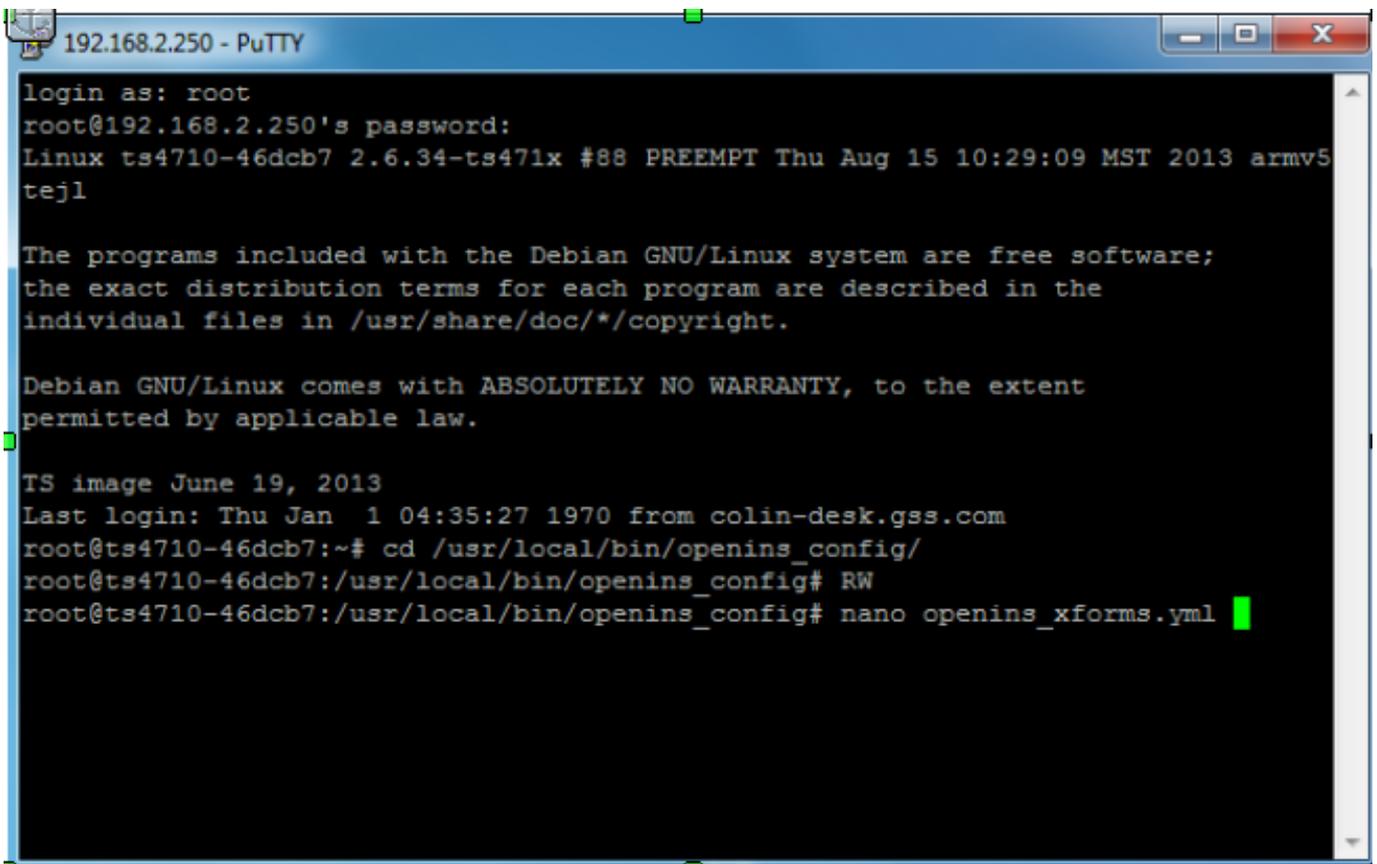
The programs included with the Debian GNU/Linux system are free software;
the exact distribution terms for each program are described in the
individual files in /usr/share/doc/*/copyright.

Debian GNU/Linux comes with ABSOLUTELY NO WARRANTY, to the extent
permitted by applicable law.

TS image June 19, 2013
Last login: Thu Jan  1 04:35:27 1970 from colin-desk.gss.com
root@ts4710-46dcb7:~# cd /usr/local/bin/openins_config/
root@ts4710-46dcb7:/usr/local/bin/openins_config# RW
```

Edit the IMU transformation section under imu\_sensor and write the file using the command:

ctrl+o



```
192.168.2.250 - PuTTY
login as: root
root@192.168.2.250's password:
Linux ts4710-46dcb7 2.6.34-ts471x #88 PREEMPT Thu Aug 15 10:29:09 MST 2013 armv5
tejl

The programs included with the Debian GNU/Linux system are free software;
the exact distribution terms for each program are described in the
individual files in /usr/share/doc/*/copyright.

Debian GNU/Linux comes with ABSOLUTELY NO WARRANTY, to the extent
permitted by applicable law.

TS image June 19, 2013
Last login: Thu Jan  1 04:35:27 1970 from colin-desk.gss.com
root@ts4710-46dcb7:~# cd /usr/local/bin/openins_config/
root@ts4710-46dcb7:/usr/local/bin/openins_config# RW
root@ts4710-46dcb7:/usr/local/bin/openins_config# nano openins_xforms.yml
```

Illustration 4: Open the configuration file in nano text editor

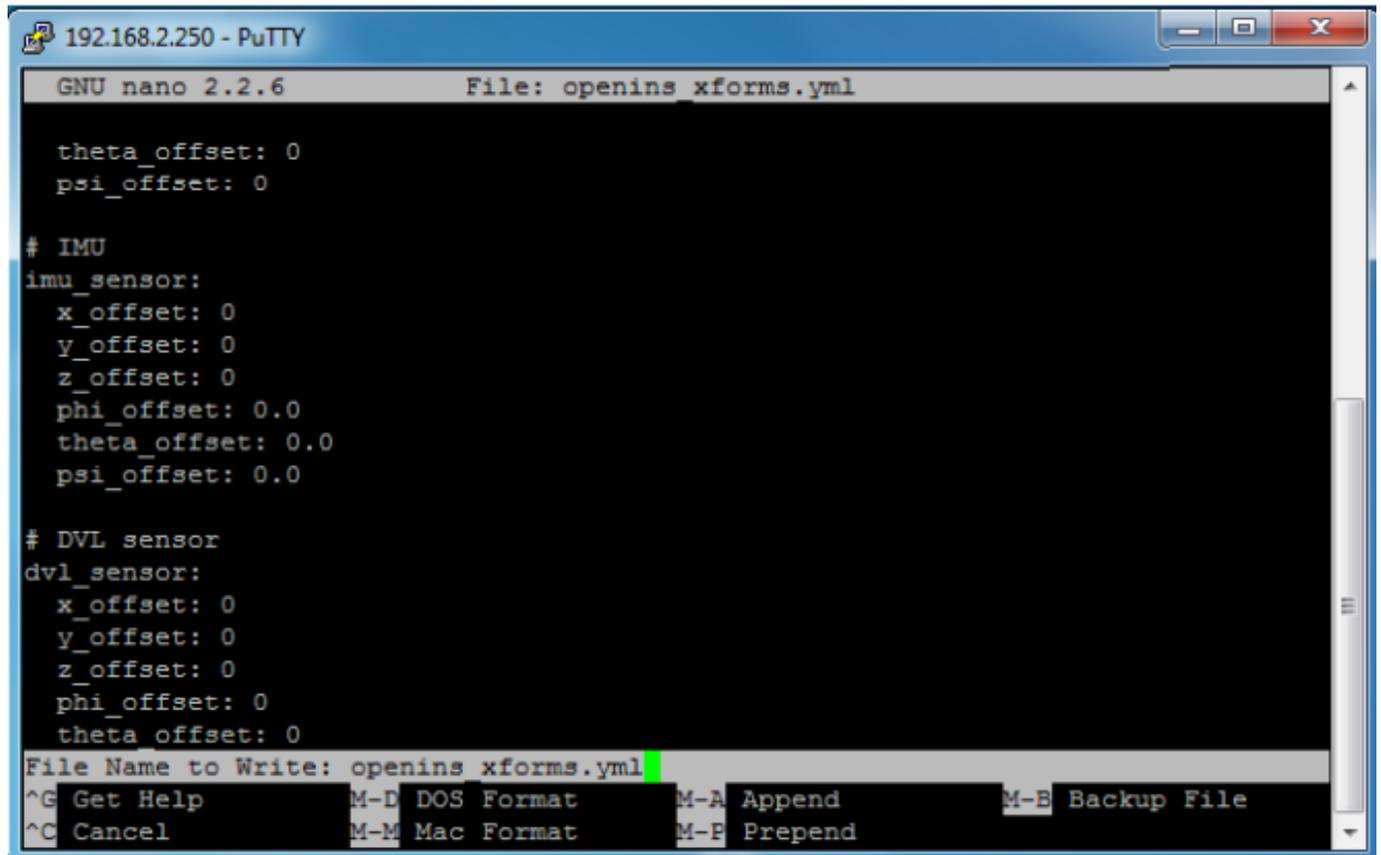
## I-Bottle

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---

When you are finished editing the transformation file exit from nano using the command:

ctrl+x



```
192.168.2.250 - PuTTY
GNU nano 2.2.6 File: openins xforms.yml

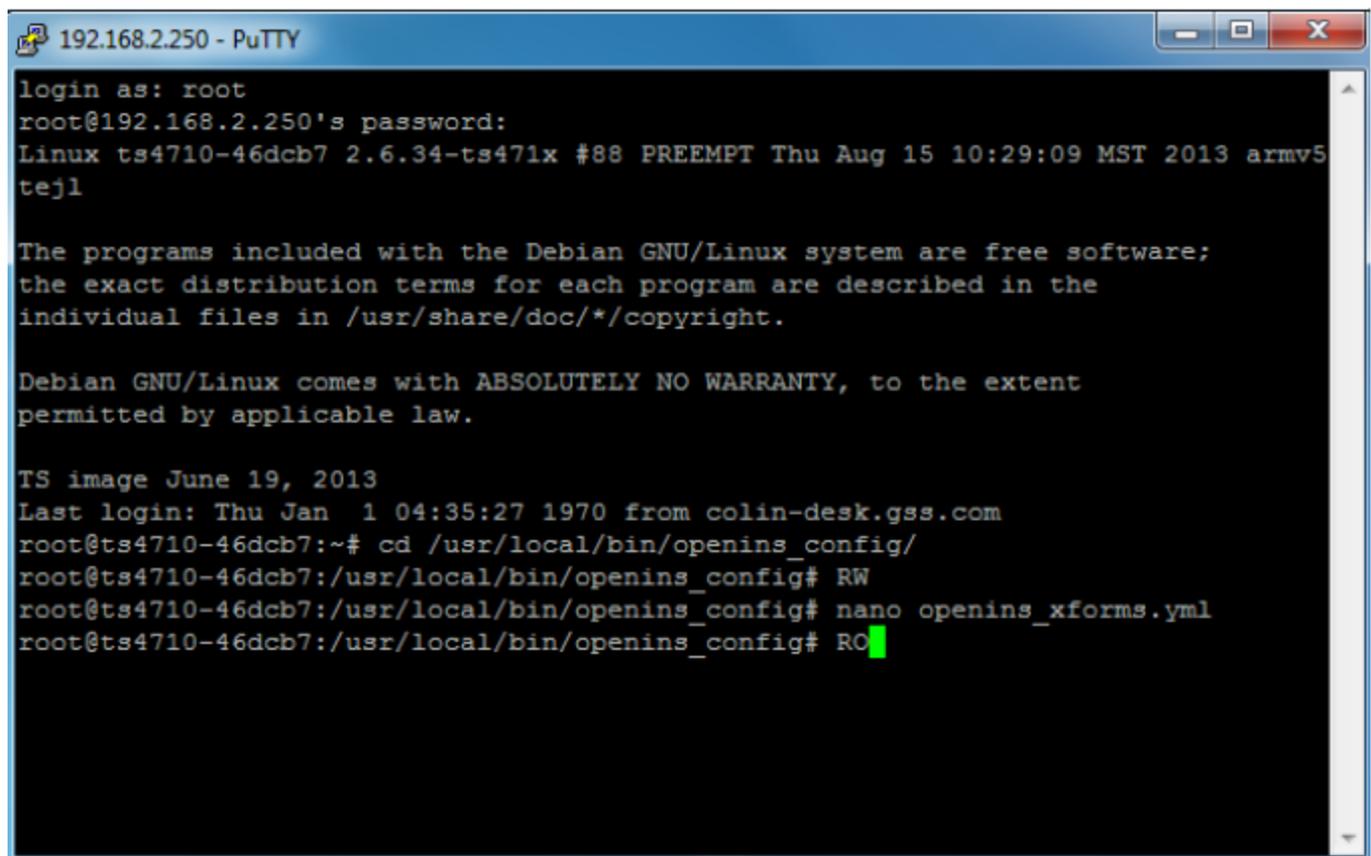
theta_offset: 0
psi_offset: 0

# IMU
imu_sensor:
  x_offset: 0
  y_offset: 0
  z_offset: 0
  phi_offset: 0.0
  theta_offset: 0.0
  psi_offset: 0.0

# DVL sensor
dvl_sensor:
  x_offset: 0
  y_offset: 0
  z_offset: 0
  phi_offset: 0
  theta_offset: 0

File Name to Write: openins xforms.yml
^G Get Help      M-D DOS Format   M-A Append      M-B Backup File
^C Cancel        M-M Mac Format   M-E Prepend
```

Once out of PuTTY, it is important to make the file system read only again to prevent corruption. Mount the file system back to Read Only using the command: RO



```
192.168.2.250 - PuTTY
login as: root
root@192.168.2.250's password:
Linux ts4710-46dcb7 2.6.34-ts471x #88 PREEMPT Thu Aug 15 10:29:09 MST 2013 armv5tejl

The programs included with the Debian GNU/Linux system are free software;
the exact distribution terms for each program are described in the
individual files in /usr/share/doc/*/copyright.

Debian GNU/Linux comes with ABSOLUTELY NO WARRANTY, to the extent
permitted by applicable law.

TS image June 19, 2013
Last login: Thu Jan  1 04:35:27 1970 from colin-desk.gss.com
root@ts4710-46dcb7:~# cd /usr/local/bin/openins_config/
root@ts4710-46dcb7:/usr/local/bin/openins_config# RW
root@ts4710-46dcb7:/usr/local/bin/openins_config# nano openins_xforms.yml
root@ts4710-46dcb7:/usr/local/bin/openins_config# RO
```

The system is now safe to power off.

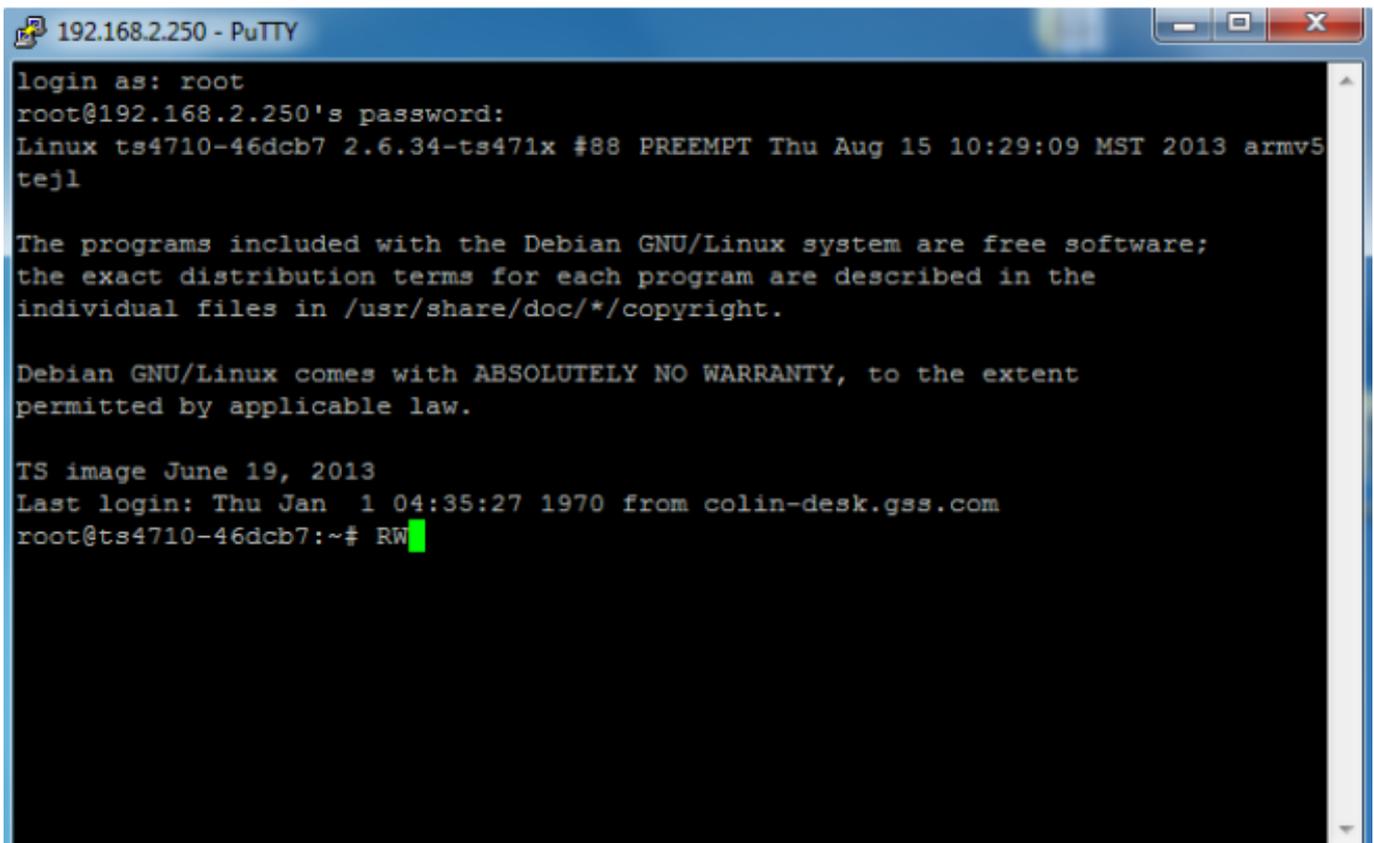
## [Copying Files to I-Bottle CPU](#)

To copy the configuration file to the CPU, log in to the CPU, mount the system as Read Write, copy the updated file to the correct folder, and mount the system as Read Only.

It is important to note that when the system is in Read Write you *must not* power off the system. It is likely that the file system will become corrupted and you will need to restore the file system to a working state.

To log into the I-Bottle using PuTTY, follow the steps provided below:

Open PuTTY and enter the IP address of the I-Bottle: 192.168.2.250. Click Open. Mount the file system as Read Write using the command: RW

A screenshot of a PuTTY terminal window titled "192.168.2.250 - PuTTY". The terminal shows a successful login as the root user on a Linux system. The output includes the system version (Debian GNU/Linux 2.6.34), kernel information, and a warning about warranty. The prompt is root@ts4710-46dcb7:~#. The cursor is positioned at the end of the prompt, ready for input.

```
login as: root
root@192.168.2.250's password:
Linux ts4710-46dcb7 2.6.34-ts471x #88 PREEMPT Thu Aug 15 10:29:09 MST 2013 armv5
tejl

The programs included with the Debian GNU/Linux system are free software;
the exact distribution terms for each program are described in the
individual files in /usr/share/doc/*/copyright.

Debian GNU/Linux comes with ABSOLUTELY NO WARRANTY, to the extent
permitted by applicable law.

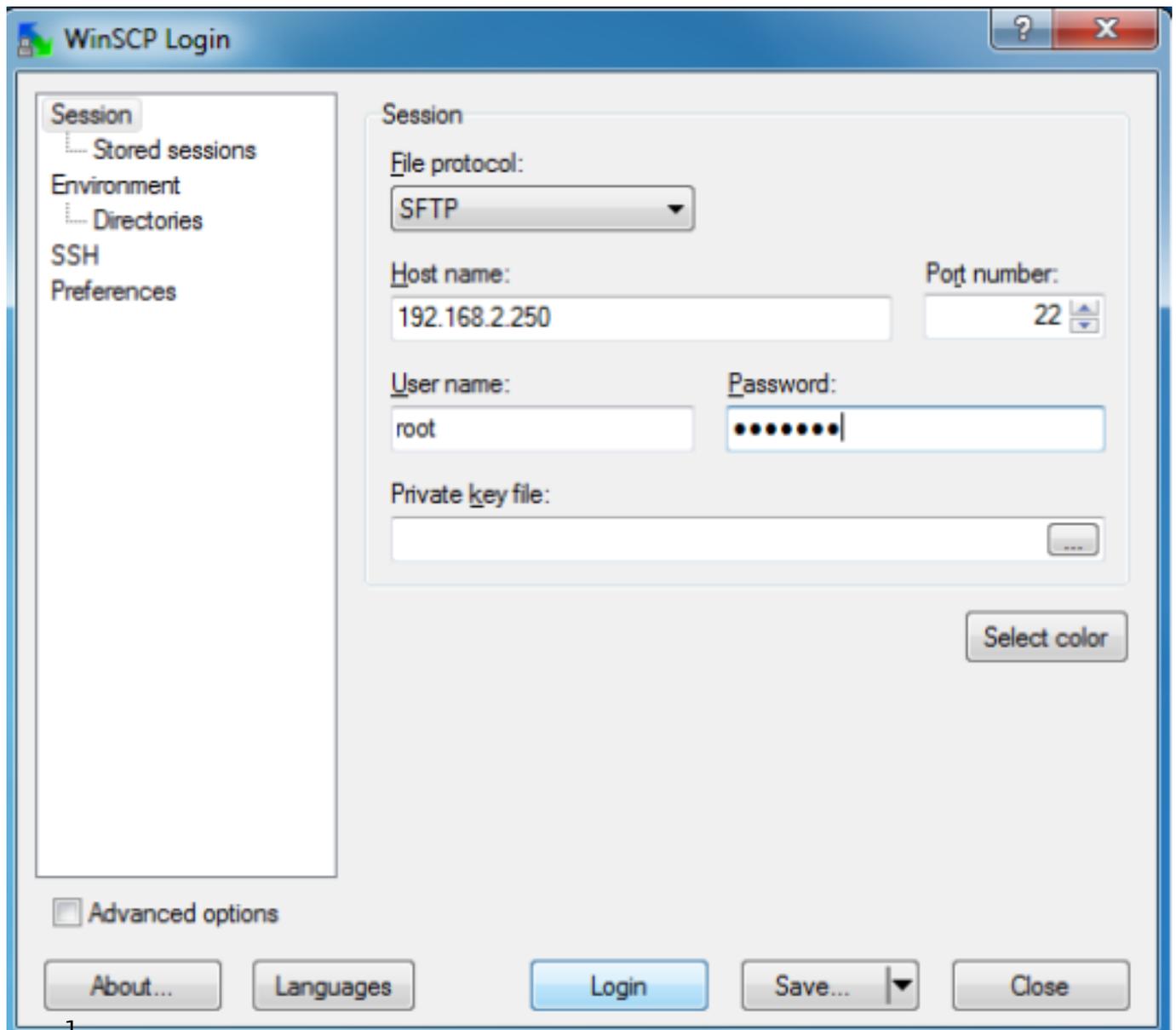
TS image June 19, 2013
Last login: Thu Jan  1 04:35:27 1970 from colin-desk.gss.com
root@ts4710-46dcb7:~# RW
```

Use WinSCP to copy the files. This application provides a secure file transfer. Open WinSCP using the following login information and login:

Open the following directory containing the `openins_xforms.yml` file:

Navigate to the updated `openins_xforms.yml` file on your computer and copy the transformation configuration file to the I-Bottle. You should be writing over the old `openins_xforms.yml` file. Using PuTTY, mount the I-Bottle as Read Only.

1. Host name: 192.168.2.250  
User name: root  
Password: oh2BnVT



1.

Open the following directory containing the opensins\_xforms.yml file:

2.

`/usr/local/bin/opensins_config/`

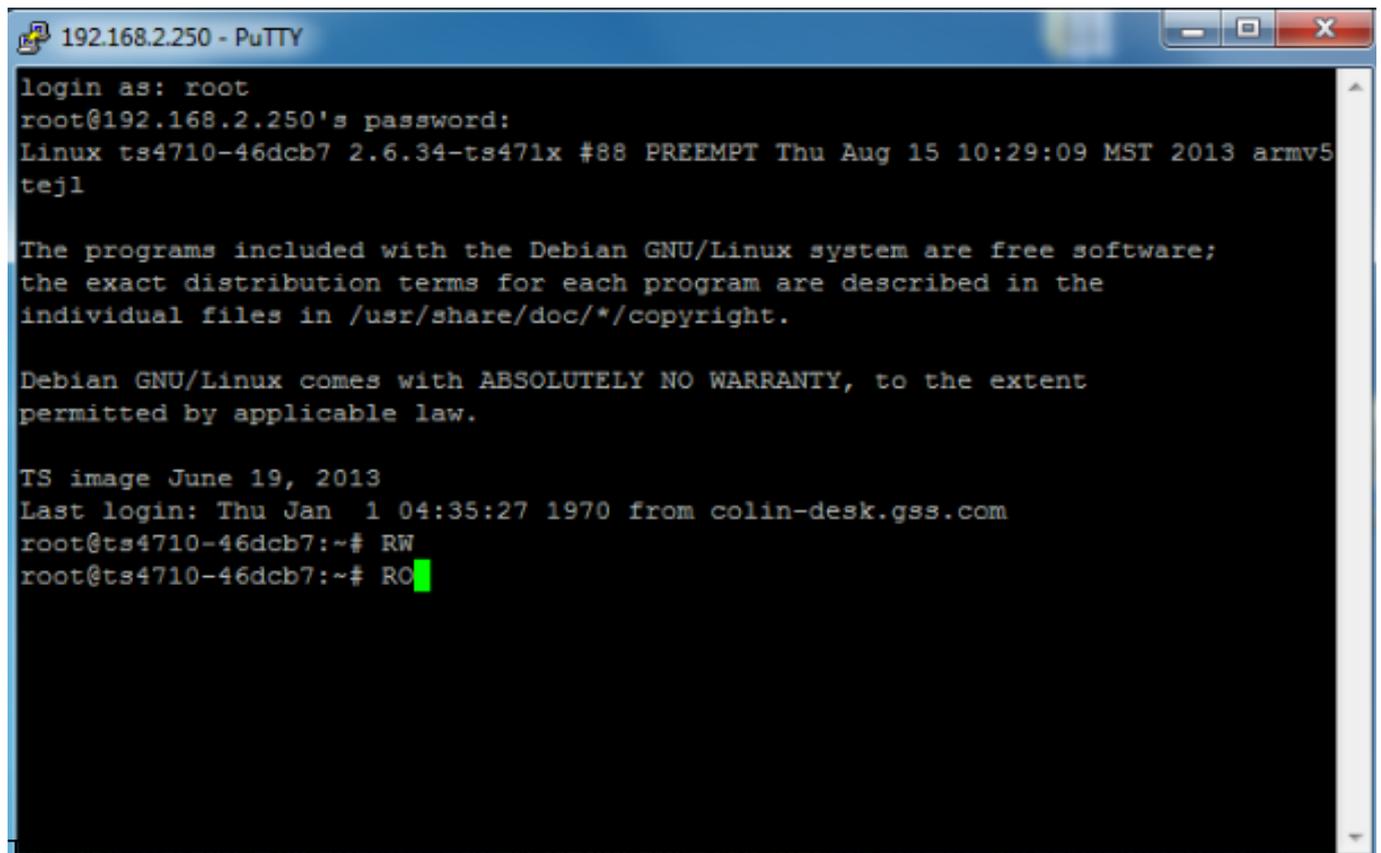
Navigate to the updated opensins\_xforms.yml file on your computer and copy the transformation configuration file to the I-Bottle. You should be writing over the old opensins\_xforms.yml file.

Using PuTTY, mount the I-Bottle as Read Only.

## I-Bottle

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A screenshot of a PuTTY terminal window titled "192.168.2.250 - PuTTY". The terminal shows a login sequence for a root user on a Linux system. The prompt is "login as: root", followed by "root@192.168.2.250's password:". The system then displays the kernel version "Linux ts4710-46dcb7 2.6.34-ts471x #88 PREEMPT Thu Aug 15 10:29:09 MST 2013 armv5tejl". It then shows the Debian GNU/Linux copyright notice, stating that the programs are free software and that the system comes with absolutely no warranty. The terminal also shows the date of the TS image ("TS image June 19, 2013") and the last login time ("Last login: Thu Jan 1 04:35:27 1970 from colin-desk.gss.com"). The prompt is now "root@ts4710-46dcb7:~# RW" and "root@ts4710-46dcb7:~# RC" with a green cursor.

The system is now safe to power on. Next time the system boots up, openmvs will load the new configuration and the new transformations will be applied.

**Source URL:** <http://localhost:8888/kb2017/i-bottle>