Subject: TheIDE runs differently under root
Posted by CppMod on Wed, 19 Dec 2012 20:18:21 GMT
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I have a program that must run as root because of some low level I/O (embedded system). I can build the program at user level, but then I have to go to a root terminal to run it.

I can start TheIDE in a root terminal ok, but the pane on the far left is missing, and I have not figured out how to add a file without

1) going back to a user terminal,
2) running TheIDE there,
3) right-click to add the file(s),
4) going back to the root terminal,
5) running TheIDE,
6) selecting File|Open File Directory, and
7) dragging and dropping the new file(s) onto TheIDE.

I tried running TheIDE in my user terminal using sudo, and the result was "No protocol specified (<unknown>:2801): Gtk-WARNING **: cannot open display:0.0

su - gave the same error.

I dimly recall that there is a way to set up the display, but I don't remember how.

But the basic question is, "Why does TheIDE run differently as root?" Followed by, "What do I need to do to fix this?"

P.S. Right-clicking "File" on the menu does nothing, either as root or as user.

Subject: Re: TheIDE runs differently under root
Posted by Didier on Wed, 19 Dec 2012 21:28:18 GMT
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Hi CppMod,

I am currently doing some playing around with a gumstix and I first ran TheIde on the target itself. The default user (and only available) is root and everything works fine.

You probably know everything I'm about to say, but just in case.

To export the screen on my PC I run ssh from my PC to connect to the gumstix:
PC:
ssh -XY myGumstix

in ssh shell :
export DISPLAY=:0

... do whatever you need,
the apps will pop up on you're PC

This sound's like what you are trying to do

Subject: Re: TheIDE runs differently under root
Posted by dolik.rce on Wed, 19 Dec 2012 22:13:44 GMT
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Hi CppMod,

Can you tell us what OS and desktop environment do you use? I have no problem running TheIDE as root, but the problems you report seems more like a fault in the communication with X or DE. Please check that File menu is not opening underneath theide (you can test by resizing it to small enough window so that the menu is long enough to stick out on the bottom). There have been troubles like this in past.

Also, you can run TheIDE as normal user and create a macro to execute the program as root. Some examples and docs can be found in the Macro page in manual and some helpful tricks might also be in the article about cross compiling.

Best regards,
Honza

Subject: Re: TheIDE runs differently under root
Posted by omari on Thu, 20 Dec 2012 07:06:12 GMT
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Hi,

there is a script auto-executed when a terminal open, its name is ".${SHALL}rc"
if your shall is bash (the default) then the file is ".bashrc"
compare the one in your Home directory with the one in the root directory, i think the source of problem is here.

Regards
omari.

Subject: Re: TheIDE runs differently under root
Posted by CppMod on Thu, 20 Dec 2012 22:04:45 GMT
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dolik.rce wrote on Wed, 19 December 2012 16:13Hi CppMod,

Can you tell us what OS and desktop environment do you use? I have no problem running TheIDE as root, but the problems you report seems more like a fault in the communication with X or DE. Please check that File menu is not opening underneath theide (you can test by resizing it to small enough window so that the menu is long enough to stick out on the bottom). There have been troubles like this in past.I am doing development directly on the target system, which is an Advantech PCM9389 SBC. Intel x86 with an installation of Debian 6.

dolik.rce wrote on Wed, 19 December 2012 16:13Also, you can run TheIDE as normal user and create a macro to execute the program as root. Some examples and docs can be found in the Macro page in manual and some helpful tricks might also be in the article about cross compiling.

Best regards,
HonzaThat looks like a better workaround than I'm currently using.

Subject: Re: TheIDE runs differently under root
Posted by CppMod on Thu, 20 Dec 2012 22:12:18 GMT
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omari wrote on Thu, 20 December 2012 01:06Hi,

there is a script auto-executed when a terminal open, its name is ".${SHALL}rc"
if your shall is bash (the default) then the file is ".bashrc"
compare the one in your Home directory with the one in the root directory, i think the source of problem is here.

Regards
omari.That sounds about right. I've been away from *nix long enough that I've forgotten a lot of those sorts of details, and all of the help/man files assume you know and remember that sort of thing.

I actually have several years of Linux/Unix experience, but very little of it involved anything to do with administering the system. Now that I'm the admin, I can't just go running to the admin for setup tasks

There are several other things I need to learn as I get my *nix finger-habits back, that would probably be major time-savers.

I think I have enough information to fix this problem. I'll be back, probably tomorrow morning, to mark this SOLVED. I hope.

Thanks!

Subject: Re: TheIDE runs differently under root

Posted by CppMod on Thu, 20 Dec 2012 22:15:45 GMT

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Didier wrote on Wed, 19 December 2012 15:28Hi CppMod,

I am currently doing some playing around with a gumstix and I first ran TheIde on the target itself. The default user (and only available) is root and everything works fine.

You probably know everything I'm about to say, but just in case.

To export the screen on my PC I run ssh from my PC to connect to the gumstix:
PC:
ssh -XY myGumstix

in ssh shell :
export DISPLAY=:0
... do whatever you need,
the apps will pop up on you're PC

This sound's like what you are trying to doNot quite. I'm doing development work directly on the target system. The export DISPLAY=:0 didn't do anything on the user terminal.

Subject: Re: TheIDE runs differently under root
Posted by Didier on Thu, 20 Dec 2012 22:24:19 GMT

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Quote: The export DISPLAY=:0 didn't do anything on the user terminal.

Sorry I mixed up my explanations:

To export display to your computer:
ssh -YC myGumstix

To display on the lcd of my gumstix
ssh myGumstix   (no -YC)
in ssh console : export DISPLAY=:0

If I don't export DISPLAY=:0 in the gumstix console
I get the same errors as you when launching my app.

Subject: Re: TheIDE runs differently under root
Posted by CppMod on Thu, 20 Dec 2012 22:35:12 GMT

omari wrote on Thu, 20 December 2012 01:06Hi,

there is a script auto-executed when a terminal open, its name is ".${SHALL}rc"
if your shall is bash (the default) then the file is ".bashrc"
compare the one in your Home directory with the one in the root directory, i think the source of problem is here.

Regards
omari.I had hopes for this, but when I tried doing a "source ./.bashrc" in the root terminal in my own home directly, I still had a missing panel on the left in TheIDE. Where is the configuration file for TheIDE kept? That may be the problem.

Subject: Re: TheIDE runs differently under root
Posted by omari on Fri, 21 Dec 2012 08:38:41 GMT

Hi,

in the root terminal, try this:

source /home/[user]/.bashrc

(replace [user] by your user name)

Regards
omari

Subject: Re: TheIDE runs differently under root
Posted by CppMod on Fri, 21 Dec 2012 15:03:15 GMT

omari wrote on Fri, 21 December 2012 02:38Hi,

in the root terminal, try this:

source /home/[user]/.bashrc

(replace [user] by your user name)

Regards

omaril tried that. No difference in TheIDE's behavior. Just to be 100% I was getting the right .bashrc, I changed my home .bashrc to colorize the prompt. I think that TheIDE is getting some initialization from a different place if it's running under root.

Subject: Re: TheIDE runs differently under root
Posted by CppMod on Fri, 21 Dec 2012 16:34:05 GMT
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Didier wrote on Thu, 20 December 2012 16:24Quote: The export DISPLAY=:0 didn't do anything on the user terminal.

Sorry I mixed up my explanations:

To export display to your computer:
ssh -YC myGumstix

To display on the lcd of my gumstix
ssh myGumstix   (no -YC)
in ssh console : export DISPLAY=:0

If I don't export DISPLAY=:0 in the gumstix console
I get the same errors as you when launching my app.
Does this apply if I'm doing the development work directly on the target system?

Subject: Re: TheIDE runs differently under root
Posted by Didier on Fri, 21 Dec 2012 17:18:00 GMT
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Quote:Does this apply if I'm doing the development work directly on the target system?

YES,

I did exactly the same thing before setting up the cross compile environment

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Subject: Re: TheIDE runs differently under root
Posted by Novo on Fri, 21 Dec 2012 18:32:05 GMT
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CppMod wrote on Fri, 21 December 2012 10:03I think that TheIDE is getting some initialization from a different place if it's running under root.

Try to run TheIDE with strace. You will be able to see all files it opens up. Filter them out and you will be able to see where it gets its configuration.

Just my 2 cents.