Compile, Install and Configure a LAMP stack from source code

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Difference between Login shell and Non login shell

Here we will learn the difference between a Login shell and Non login shell.

The shell program, for example Bash, uses a collection of startup scripts to create an environment. Each script has a specific use and affects the login environment differently. Every subsequent script executed can override the values assigned by previous scripts.

Startup is configured differently for Login shells and Non login shells.

- 1) Login shells
- 2) Non login shells

1) Login shells

A Login shell is started after a successful login, using */bin/login*, by reading the */etc/passwd* file. Login shell is the first process that executes under our user ID when we log in to a session. The login process tells the shell to behave as a login shell with a convention: passing argument *0*, which is normally the name of the shell executable, with a "-" character prepended. For example, for Bash shell it will be *-bash*.

When Bash is invoked as a Login shell;

- → Login process calls /etc/profile
- → /etc/profile calls the scripts in /etc/profile.d/
- → Login process calls ~/.bash_profile
- → ~/.bash_profile calls ~/.bashrc
- → ~/.bashrc calls /etc/bashrc

Login shells include the following.

• Shells created by explicitly telling to login.

examples: # su - |# su -I |# su --login |# su USERNAME - |# su -I USERNAME |# su --login USERNAME |# sudo -i

• Shells created at login, including X login.

A Login shell can be recognized by the following procedure.

Execute the below command in shell.

echo \$0

If the output is the name of our shell, prepended by a dash, then it is a login shell.

For example -bash, -su etc.

2) Non login shells

A Non login shell is started by a program without a login. In this case, the program just passes the name of the shell executable. For example, for a **Bash** shell it will be simply **bash**.

When bash is invoked as a Non login shell;

- → Non-login process(shell) calls ~/.bashrc
- → ~/.bashrc calls /etc/bashrc
- → /etc/bashrc calls the scripts in /etc/profile.d/

Non login shells include the following.

• Shells created using the below command syntax.

examples: # su | # su USERNAME

• Graphical terminals

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A Non login shell can be recognized by the following procedure.

Execute the below command in shell.



If the output is the name of our shell, does not prepend by a dash, then it is a Non login shell. For example bash, su etc.

It is recommended to view the following sections also.

Bash startup scripts

Difference between Local Variables and Environment Variables

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