

Forum:[Hack Forums](#)

Thread: [A Comprehensive Guide to Bash](#)

Tirus - December 13, 2014, 4:35 pm

Comprehensive bash guide

What is bash?

Bash (Bourne Again Shell) is a unix shell written by Brian Fox for the GNU project to replace sh (Bourne Shell).

It is a command processor that typically runs in a text window, where the user types commands that cause actions. Bash can also read commands from a file, called a script. Like all Unix shells, it supports filename wildcarding, piping, here documents, command substitution, variables and control structures for condition-testing and iteration

Your first script

Let's start with something that is really easy to understand. Lets create a "hello world" script.

PHP Code

```
<?php
#!/bin/bash
echo "Hello World"
```

This line tells the application which application to run the script with. In our case it is Bash. 'echo' is used to print something out on the terminal. In our case the echo will print "Hello World" out without the quotes.

Running a bash script

So after creating your first ever bash script, let's say you saved the contents of the bash script with the name "firstever.sh". The script should have execute permissions for the correct owners in order to be runnable. When setting permissions, check that you really obtained the permissions that you want. When this is done, the script can run like any other command.

PHP Code

```
<?php
chmod u+x firstever.sh
```

Now that we have given our script the permission to run like any other command, we can execute our first bash script! To do this, we will simply type firstever.sh in our terminal. It should look something like this

PHP Code

```
<?php
firstever.sh
"Hello World"
```

This is the most common way to execute a script. It is preferred to execute the script like this in a subshell. The variables, functions and aliases created in this subshell are only known to the particular bash session of that subshell. When that shell exits and the parent regains control,

everything is cleaned up and all changes to the state of the shell made by the script, are forgotten.

Variables

You can use variables as in any programming languages. There are no data types. A variable in bash can contain a number, a character, a string of characters. You have no need to declare a variable, just assigning a value to its reference will create it.

PHP Code

```
<?php
#!/bin/bash
BH="Hello World!"
echo $BH
```

Line 2 creates a variable called BH and assigns the string "Hello World!" to it. Then the VALUE of this variable is retrieved by putting the '\$' in at the beginning. Please notice (try it!) that if you don't use the '\$' sign, the output of the program will be different, and probably not what you want it to be.

Local Variables

Local variables can be created by using the keyword local.

PHP Code

```
<?php
#!/bin/bash
HELLO=Hello
function hello {
    local HELLO=World
    echo $HELLO
}
echo $HELLO
hello
echo $HELLO
```

This script here assigns the word "Hello" to "HELLO". We then make a function named "hello" which HELLO = World. Once we echo "\$HELLO" it will echo out the variable we made it to, which is world in this case. Now, whenever we execute it again, it'll go back to the first part and execute "Hello" which would print out "Hello world". Fairly basic, right?! Great!

Conditionals

Conditionals let you decide whether to perform an action or not, this decision is taken by evaluating an expression. This is useful for if statements, then statements, elseif statements and multiple other statements. You will use conditionals very often in your bash lifetime so get use to them. I will be going over a few conditionals in this section of the guide.

If

PHP Code

```
<?php
```

```
#!/bin/bash
if [ "foo" = "foo" ]; then
echo expression evaluated as true
fi
```

Programming conditional statement that, if proved true, performs a function or displays information. Below is a general example of an if statement, not specific to any particular programming language. The code to be executed if the expression within braces is true can be found after the 'then' word and before 'fi' which indicates the end of the conditionally executed code.

If then else

PHP Code

```
<?php
#!/bin/bash
if [ "foo" = "foo" ]; then
echo expression evaluated as true
else
echo expression evaluated as false
fi
```

So this little script here says that if the variable foo is equal to "foo" then execute the value as true. If it is not equal to "foo" then return false. If it doesn't return either, do not return anything to the user as this may be a glitch in your code or an error.

Functions

Bash has functions, though in a somewhat limited implementation. A function is a subroutine, a code block that implements a set of operations, a "black box" that performs a specified task. Wherever there is repetitive code, when a task repeats with only slight variations in procedure, then consider using a function. As in almost any programming language, you can use functions to group pieces of code in a more logical way or practice the divine art of recursion. Declaring a function is just a matter of writing function my_func { my_code }. Calling a function is just like calling another program, you just write its name. Here is a little sample of a function, below the code I will explain what the code does.

PHP Code

```
<?php
#!/bin/bash
function quit {
exit
}
function hello {
echo Hello!
}
hello
quit
echo foo
```

This code sets the function quit set as "Exit" which would shut down the script upon the line of code being read by your system. The function hello will echo out "Hello". Now, once we call these functions after declaring them, we will have it say our hello function which is equal to "Hello!" and

then after that, we go to our quit function which will exit the script upon the function being called, basic right?

User Interfaces(UIs)

Graphical user interfaces (GUI) accept input via devices such as a computer keyboard and mouse and provide articulated graphical output on the computer monitor. You can find these very useful in bash and so do I. So in this step, as in the other steps, I will show you what the code looks like and further explain what the code does. Sounds good? Great.

PHP Code

```
<?php
#!/bin/bash
  OPTIONS="Hello Quit"
  select opt in $OPTIONS; do
    if [ "$opt" = "Quit" ]; then
      echo done
      exit
    elif [ "$opt" = "Hello" ]; then
      echo Hello World
    else
      clear
      echo bad option
    fi
  done
```

This code is very basic and is similar to the if statements that we were doing very earlier. So the options are either "HELLO" or "QUIT". This code says if the opt(option) in our variable OPTIONS is "quit" then we will execute the echo "done" and then "exit" which would exit our if statement so the code doesn't carry on to our elif statement. Now, in our elif statement, if it is "HELLO" then it will execute Hello world. If it isn't either of them, the screen will clear.

Command Line(CL)

PHP Code

```
<?php
#!/bin/bash
  if [ -z "$1" ]; then
    echo usage: $0 directory
    exit
  fi
  SRCD=$1
  TGTD="/var/backups/"
  OF=home-$(date +%Y%m%d).tgz
  tar -cZf $TGTD$OF $SRCD
```

What this script does should be clear to you. The expression in the first conditional tests if the program has received an argument (\$1) and quits if it didn't, showing the user a little usage message. The rest of the script should be clear at this point. If you understand this, then we are going into the right direction regarding bash.

User Input

In many occasions you may want to prompt the user for some input, and there are several ways to achieve this. This is one of those ways:

PHP Code

```
<?php
#!/bin/bash
    echo Please, enter your name
    read NAME
    echo "Hi $NAME!"
```

So this will ask for a user input by saying "Please enter your name". Upon a user's input, the input will go into the \$NAME variable and then once it is read it will echo out the variable after the word "Hi". So it would look something like "Hi Tirus!"

PHP Code

```
<?php
echo "Do you wish to install this program?"
select yn in "Yes" "No"; do
    case $yn in
        Yes ) make install; break;;
        No ) exit;;
    esac
done
```

With select you don't need to sanitize the input... it prompts you with your choices, and you type a number corresponding to the choice you want. Select also loops automatically... there's no need for a 'while true' loop to retry if they give invalid input. So to explain this code in my own words, it asks you if you wish to install a program. We then set an option for either "y/n == "Yes", "No". If the case is "y" or "Yes", it will make install; break;;. If the case is "No" it will exit the script (Not install the program that you wish to do. Once it runs through those options, if neither is entered Y/N (Yes, No) it will execute "done" which will close the script and "not install the program."

Tirus - December 13, 2014, 4:36 pm

Tables

PHP Code

```
<?php
(1) s2 = s4

(2) s3 != s5

(3) s1 < s2

(4) s1 > s2

(5) -n s1

(6) -z s1
```

To explain what these are I will go in explanation of what each of these tables do.

(1) s2 matches s4

(2) s3 does not match s5

(3)_TO-DO_

(4)_TO-DO_

(5) s1 is not null (contains one or more characters)

(6) s1 is null

C programmer's should simple map the operator to its corresponding parenthesis. This is basic mathematics and if you wish to do any type of bash or any other programming/coding, you must know at-least 7th grade level math to an extent.

Commands

Some of these command's almost contain complete programming languages. From those commands only the basics will be explained. For a more detailed description, have a closer look at the man pages of each command. Which you can do by executing `man (command)`.

sed
awk
grep
wc
sort

sed or commonly known as stream editor is a non-interactive editor. Instead of altering a file by moving the cursor on the screen, you use a script of editing instructions to sed, plus the name of the file to edit

PHP Code

```
<?php  
$sed 's/to_be_replaced/replaced/g' /etc/tut
```

Sed replaces the string 'to_be_replaced' with the string 'replaced' and reads from the /etc/tutfile. The result will be sent to stdout (normally the console) but you can also add '> capture' to the end of the line above so that sed sends the output to the file 'capture'.

awk or manipulation of datafiles. AWK scans for a pattern, and for every matching pattern a action will be performed. So lets show you how this command works, it's quite basic. I'm going to create a file named "tutorial" I've created a dummy file containing the following lines:

"test123

test

ttesstt"

PHP Code

```
<?php
```

```
$awk '/test/ {print}' /tmp/dummy
```

The result of the file will print out

PHP Code

```
<?php  
test123  
test
```

In your command line. The pattern AWK looks for is 'test' and the action it performs when it found a line in the file /tmp/dummy with the string 'test' is 'print'.

The command grep will print lines matching a search pattern. \$grep "look for this" /var/log/messages -c this will search for the text "look for this" in our log folder of messages. This is very basic and a very easy command to use. Although there is not much to it, it can really be useful if you are search for certain texts in your messages folder of logs.

wc will counts lines, words and bytes which is an addition to the command grep. I find this one more useful than grep because it can search bytes as-well. Wc doesn't care about the parameter order. Wc always prints them in a standard order.

PHP Code

```
<?php  
$wc --words --lines --bytes /tmp/tut  
2 5 34 /tmp/tut
```

sort is a command that will sort lines of text files. Let's say we created a file with the following contents

PHP Code

```
<?php  
"b  
  
a  
  
c"
```

As we know, this isn't alphabetically correct. We want it to be alphabetically correct, so to do so, we're going to use the sort command which will alphabetically arrange it correctly. If we execute sort /tmp/tut it will alphabetically arrange it from "b, a, c" to

PHP Code

```
<?php  
"a  
b  
c"
```

Misc

So in this part, I will show you how to find bash. you always use #!/bin/bash .. you might was to give an example of how to find where bash is located in. Here are a few commands you can use to find

bash.

PHP Code

```
<?php
```

```
locate bash
```

```
find ./ -name bash
```

The first one is preferred, but not all machines have locate on them. The second one will work from the root dir will work, usually

Tirus - December 13, 2014, 4:37 pm

Thank you for taking your time to read over my bash comprehensive guide. I took an incredible amount of time in this tutorial and would love to get some positive feed-back regarding it. If you have absolutely any questions or concerns regarding bash or this tutorial or a matter of fact, anything GNU/Linux related, feel free to contact me via PM and we can fuhrer discuss your problem/question.

Otis???????????????? - December 13, 2014, 4:41 pm

Amazing tutorial Tirus. You never failed me with your tutorials.

Tirus - December 13, 2014, 4:45 pm

Thank you very much .Astro, I plan on being of assistance in the GNU/Linux section for quite some time.

Loki123 - December 13, 2014, 4:58 pm

Great work Tirus!

If you wouldn't have done it I would probably have finished in the next weeks. Not in less than 24 hours. Amazing work!

P.S

Wrong section ;*

Tirus - December 13, 2014, 4:59 pm

(Dec 13, 2014 05:58 PM)Loki123 Wrote: [\[CITE\]](#) Great work Tirus!

If you wouldn't have done it I would probably have finished in the next weeks. Not in less than 24 hours. Amazing work!

P.S

Wrong section ;*

I have a lot of time on my hands, I did it all night long till 5 AM and then did it all day today till 8 PM.

Orchid - December 13, 2014, 5:00 pm

Woah this is a very creative guide, thanks Tirus.

Tirus - December 13, 2014, 5:05 pm

My pleasure, thank you for replying and giving me feed-back, Orchid. I appreciate it.

White Light - December 13, 2014, 11:01 pm

Wow, very nice guide. One thing I noticed, you said "fuhrer" instead of further.

'Palladium - December 14, 2014, 5:22 am

Tirus, If you rushed this tutorial you must've put little effort into this, Look at Whitelight's guide on Batch, It took him weeks, And it's much more longer. But that's just my opinion.

Aura 2.0 - December 14, 2014, 8:19 am

Great tutorial Tirus.

(Dec 14, 2014 06:22 AM)HacksBro Wrote: [\[CITE\]](#) And it's much more longer.
Quality, not quantity.

Tirus - December 14, 2014, 9:33 am

(Dec 14, 2014 06:22 AM)HacksBro Wrote: [\[CITE\]](#) Tirus, If you rushed this tutorial you must've put little effort into this, Look at Whitelight's guide on Batch, It took him weeks, And it's much more longer. But that's just my opinion.
Quality over quantity. Just because I make a few grammatical errors doesn't mean I left something out.

WOLGA - December 14, 2014, 10:41 am

Great post OP, we need more people like you in this section.

b00st3d - December 14, 2014, 12:57 pm

(Dec 14, 2014 06:22 AM)HacksBro Wrote: [\[CITE\]](#) Tirus, If you rushed this tutorial you must've put little effort into this, Look at Whitelight's guide on Batch, It took him weeks, And it's much more longer. But that's just my opinion.
Did you read this or did you just regurgitate a line to increase post count? This is a good beginners guide on BASH (Bourne Again SHell) This is Linux not M\$. Just because he misspelled a word doesn't mean effort wasn't put into it.

Tirus - December 14, 2014, 1:00 pm

(Dec 14, 2014 01:57 PM)b00st3d Wrote: [\[CITE\]](#) Did you read this or did you just regurgitate a line to increase post count? This is a good beginners guide on BASH (Bourne Again SHell) This is Linux not M\$. Just because he misspelled a word doesn't mean effort wasn't put into it.
Point proven, although I don't have images/what not. I believe quality is over quantity and with absolutely no offense to the two people with the batch tutorial, they teach absolutely nothing aside from defining what things are.

Cyph Jr - December 14, 2014, 1:01 pm

GoodJob on this tutorial Skid.
Love,
Cyph J

Tirus - December 14, 2014, 1:06 pm

(Dec 14, 2014 02:01 PM)Cyph Jr Wrote: [\[CITE\]](#) GoodJob on this tutorial Skid.
Love,
Cyph J
Thanks fuck turd skid bagel.

Love,
Tirus

Be?tray?ed - December 14, 2014, 1:07 pm

Another fantastic tutorial by Tirus!

King Cin - December 14, 2014, 2:24 pm

Very educative. You put a lot of work into this.
'Cinnamon approves.

Seal of approval:

[img]http://media0.giphy.com/media/jjMdAKkyHyBBm/giphy.gif[/img]

Tirus - December 14, 2014, 2:52 pm

(Dec 14, 2014 03:24 PM)Cinnamon Wrote: [\[CITE\]](#) Very educative. You put a lot of work into this.
'Cinnamon approves.

Seal of approval:

[img]http://media0.giphy.com/media/jjMdAKkyHyBBm/giphy.gif[/img]

Now let's try to get me a sticky for this.

I'm sure Taylor supports it!

White Light - December 14, 2014, 4:12 pm

(Dec 14, 2014 03:52 PM)Tirus Wrote: [\[CITE\]](#) Now let's try to get me a sticky for this.

I'm sure Taylor supports it!

Honestly this would be a great sticky here! I feel bad when I have to suggest that people ask bash questions in the linux section, because they should be here. If this were stickied, it would encourage more people to visit. In the mean time, I will include a link to this thread in mine.

Tirus - December 14, 2014, 6:20 pm

(Dec 14, 2014 05:12 PM)White Light Wrote: [\[CITE\]](#) Honestly this would be a great sticky here! I feel bad when I have to suggest that people ask bash questions in the linux section, because they should be here. If this were stickied, it would encourage more people to visit. In the mean time, I will include a link to this thread in mine.

Thank you very much. I hope to get Omni to look over this and decide if it's sticky worthy or not.

'Palladium - December 16, 2014, 12:40 am

Boost, Why would I try to increase my post count? I don't even go on this forums that much and I don't care about my stats. And in my OP I never said that he put no effort into this because he made a few grammatical errors. Also why did put Bash code inside PHP tags? Like what's the point of that? It only makes it cool with colors.

Tirus - December 16, 2014, 3:46 am

(Dec 16, 2014 01:40 AM)HacksBro Wrote: [\[CITE\]](#) Boost, Why would I try to increase my post count? I don't even go on this forums that much and I don't care about my stats. And in my OP I never said that he put no effort into this because he made a few grammatical errors. Also why did put Bash code inside PHP tags? Like what's the point of that? It only makes it cool with colors.
It only makes it cool with colors. It makes the thread look nicer and more decorative.

WOLGA - December 16, 2014, 8:00 am

(Dec 16, 2014 01:40 AM)HacksBro Wrote: [\[CITE\]](#) Boost, Why would I try to increase my post count? I don't even go on this forums that much and I don't care about my stats. And in my OP I never said that he put no effort into this because he made a few grammatical errors. Also why did put Bash code inside PHP tags? Like what's the point of that? It only makes it cool with colors.
I don't even...

Spoiler ([Click to View](#))

Quote:Boost, Why would I try to increase my post count? Your post seemed low quality, incoherent, or seemingly copied enough to seem like it was intended to boost post count.

Quote:I don't even go on this forums that much and I don't care about my stats. So that's why you made 1 thread and hijacked another to complain about reputation.

Quote:And in my OP I never said that he put no effort into this because he made a few grammatical errors. It sure sounded like you were implying it.

Quote:Also why did put Bash code inside PHP tags? Like what's the point of that? It's because it's easier to click the PHP code than to type "[code][/ code]" Why are you complaining about this? It's the same visually.

Quote:It only makes it cool with colors. What?

?CARUs L?VE?™ - December 16, 2014, 9:19 am

Are we really going to clog this thread with a senseless argument? HacksBro, mind your own business. Tirus, great thread man. I learned quite a bit from this tutorial.

Loki123 - December 16, 2014, 10:00 am

(Dec 16, 2014 10:19 AM)?CARUs L?VE?™ Wrote: [\[CITE\]](#) Are we really going to clog this thread with a senseless argument? HacksBro, mind your own business. Tirus, great thread man. I learned quite a bit from this tutorial.

Does it matter though what discussion happens in the thread ? If it stays at the top it will be seen often.. If the discussion wouldn't happen the thread would probably die and be forgotten. ?

?CARUs L?VE?™ - December 16, 2014, 10:57 am

(Dec 16, 2014 11:00 AM)Loki123 Wrote: [\[CITE\]](#) Does it matter though what discussion happens in the thread ? If it stays at the top it will be seen often.. If the discussion wouldn't happen the thread would probably die and be forgotten. ?

Whoa now, let's not be hasty. This thread is actually really impressive standing by itself. It doesn't need any off topic spam to keep it floating. All posts SHOULD contain a reputable amount of information OR questions involving what the thread is about, and not what is in the thread itself.

Loki123 - December 16, 2014, 11:09 am

(Dec 16, 2014 11:57 AM)?CARUs L?VE?™ Wrote: [\[CITE\]](#) Whoa now, let's not be hasty. This thread is actually really impressive standing by itself. It doesn't need any off topic spam to keep it floating. All posts SHOULD contain a reputable amount of information OR questions involving what the thread is about, and not what is in the thread itself.

Oh, I know that it is impressive but *nix threads don't live that long anywhere on this site except if it is BackTrack/Kali related. So anything that keeps it floating will help.

Tirus - December 16, 2014, 11:17 am

(Dec 16, 2014 12:09 PM)Loki123 Wrote: [\[CITE\]](#) Oh, I know that it is impressive but *nix threads don't live that long anywhere on this site except if it is BackTrack/Kali related. So anything that keeps it floating will help.

I don't see a problem regarding argumentation as long as you're giving valid points regarding my threads, I take everything to thought as fixing/improving my thread.

?CARUs L?VE?™ - December 16, 2014, 11:28 am

(Dec 16, 2014 12:09 PM)Loki123 Wrote: [\[CITE\]](#) Oh, I know that it is impressive but *nix threads don't live that long anywhere on this site except if it is BackTrack/Kali related. So anything that keeps it floating will help.

Well when you're right, you're right. Either way, this thread is fantastic.

Doxicity - December 16, 2014, 11:30 am

Tirus has got this shit on lock.

He's incredibly intelligent, and his tutorials are great.

Nice work.

Tirus - December 16, 2014, 11:33 am

(Dec 16, 2014 12:30 PM)Doxicity Wrote: [\[CITE\]](#) Tirus has got this shit on lock.

He's incredibly intelligent, and his tutorials are great.

Nice work.

Thank you very much Doxicity. I hope Omniscient views the feed-back on this thread and makes the right decision. ?

(Dec 16, 2014 12:28 PM)?CARUs L?VE?™ Wrote: [\[CITE\]](#) Well when you're right, you're right. Either way, this thread is fantastic.

Thank you very much. I appreciate all feed-back regardless of negative or positive. The negative feed-back encourages me to improve and make better content.

Loki123 - December 16, 2014, 11:34 am

(Dec 16, 2014 12:28 PM)?CARUs L?VE?™ Wrote: [\[CITE\]](#) Well when you're right, you're right. Either way, this thread is fantastic.

It is fantastic because I was going to write it. ?

Tirus - December 16, 2014, 11:35 am

(Dec 16, 2014 12:34 PM)Loki123 Wrote: [\[CITE\]](#) It is fantastic because I was going to write it. ? was . I guess the better man won... ???

White Light - December 16, 2014, 11:36 am

(Dec 16, 2014 12:33 PM)Tirus Wrote: [\[CITE\]](#) Thank you very much Doxicity. I hope Omniscient views the feed-back on this thread and makes the right decision. ?

Thank you very much. I appreciate all feed-back regardless of negative or positive. The negative feed-back encourages me to improve and make better content.

Have you sent him a PM about it? When I petitioned for a sticky, I basically wrote a 1000 word essay on why it should be stickied.

Tirus - December 16, 2014, 11:37 am

(Dec 16, 2014 12:36 PM)White Light Wrote: [\[CITE\]](#) Have you sent him a PM about it? When I petitioned for a sticky, I basically wrote a 1000 word essay on why it should be stickied.

I PM'd him a very little PM asking for a sticky and that he should check it out.

He's read the PM and hasn't responded to me for nearly a week now.

Loki123 - December 16, 2014, 11:37 am

(Dec 16, 2014 12:35 PM)Tirus Wrote: [\[CITE\]](#) was . I guess the better man won... ???
hahaha, yeah, the "better" (sober) man won.

White Light - December 16, 2014, 11:37 am

(Dec 16, 2014 12:34 PM)Loki123 Wrote: [\[CITE\]](#) It is fantastic because I was going to write it. ?

The only reason why I finished (only had like 10% done) my thread was because Icarus said he was planning on doing something "sticky-worthy".

Loki123 - December 16, 2014, 11:41 am

(Dec 16, 2014 12:37 PM)White Light Wrote: [\[CITE\]](#) The only reason why I finished (only had like 10% done) my thread was because Icarus said he was planning on doing something "sticky-worthy". I was going to write this thread because I wanted to get a Bash thread stickied in this section. Get some life into Bash in here and Tirus did a fantastic job with this one.. He probably finished it because I told him that it was a competition who would finish it first could post it. ?

Competition can be really good if you want something done soon.

Tirus - December 16, 2014, 11:42 am

(Dec 16, 2014 12:37 PM)White Light Wrote: [\[CITE\]](#) The only reason why I finished (only had like 10% done) my thread was because Icarus said he was planning on doing something "sticky-worthy". Originally, Loki had a similar thread as a [WIP] in The Brotherhood SF and he said that if I could finish the thread before him, I could have it. I took it to heart and had a two day head start from Loki. Loki was also drunk that night.

Thread has been updated with any grammatical errors that I have been notified about.

DrenSkywalker - December 16, 2014, 5:42 pm

Code `#!/bin/bash`

```
BH = "I'm a variable"
```

```
echo "Hello World"
```

```
echo $BH
```

This gives me the error: "line 3: BH: command not found"

And it seems impossible to run the .sh file without using the ./ before it in the terminal. :(

What am i doing wrong?

I'm using ubuntu...

Tirus - December 16, 2014, 5:45 pm

(Dec 16, 2014 06:42 PM)DrenSkywalker Wrote: [\[CITE\]](#) Code `#!/bin/bash`

```
BH = "I'm a variable"
```

```
echo "Hello World"
```

```
echo $BH
```

This gives me the error: "line 3: BH: command not found"

And it seems impossible to run the .sh file without using the ./ before it in the terminal. :(

What am i doing wrong?

I'm using ubuntu...

Did you include BH into a variable?

PHP Code

```
<?php
```

```
$BH
```

White Light - December 16, 2014, 5:45 pm

(Dec 16, 2014 06:42 PM)DrenSkywalker Wrote: [\[CITE\]](#) Code `#!/bin/bash`

BH = "I'm a variable"

echo "Hello World"

echo \$BH

This gives me the error: "line 3: BH: command not found"

And it seems impossible to run the .sh file without using the ./ before it in the terminal. :(

What am i doing wrong?

I'm using ubuntu...

Try no spaces around the equal sign. Also, that is required as without it your computer would only look in the default paths. "./" tells it to look in the current folder.

DrenSkywalker - December 16, 2014, 5:49 pm

Thanks it worked without spaces! :)

Tirus - December 16, 2014, 5:58 pm

(Dec 16, 2014 06:49 PM)DrenSkywalker Wrote: [\[CITE\]](#) Thanks it worked without spaces! :)

Good to hear. If you have any other question, let me know.

spoof - December 17, 2014, 4:44 pm

Omg, amazing tutorial Tirus. You never seem to shame me

Loki123 - December 18, 2014, 1:01 am

(Dec 13, 2014 05:35 PM)Tirus Wrote: [\[CITE\]](#) PHP Code

```
<?php
```

```
#!/bin/bash
```

```
echo "Hello World"
```

This line tells the application which application to run the script with. In our case it is Bash. 'echo' is used to print something out on the terminal. In our case the echo will print "Hello World" out without the quotes.

The path can be different in systems. You should add that people might need to find out where Bash is located. (which bash)

And also that the executable flag isn't actually required if you run the script with "bash script"

Johnny Cache - December 18, 2014, 2:16 am

Nice! Bump this to the top. Great work Tirus.

'Palladium - December 18, 2014, 3:50 am

Good job on this thread Tirus, sticky!

Loki123 - December 18, 2014, 6:00 pm

At least this shouldn't die this quickly.

WOLGA - December 18, 2014, 6:08 pm

You can leave it to me to make sure this at least stays on the first page.

Tirus - December 18, 2014, 9:15 pm

Thanks for all the great support guys. I greatly appreciate it.

Omega. - December 19, 2014, 12:32 am

good job on this thread Tirus sure helped me ;P

Tirus - December 19, 2014, 10:16 am

(Dec 19, 2014 01:32 AM)?Omega? Wrote: [\[CITE\]](#) good job on this thread Tirus sure helped me ;P
Thank you for your feedback. It's all greatly appreciated. Happy holidays!

Apostle - December 20, 2014, 9:34 am

Oh tirus, what a beautiful tutorial my little feelseal

Tirus - December 20, 2014, 5:17 pm

(Dec 20, 2014 10:34 AM)Apostle Wrote: [\[CITE\]](#) Oh tirus, what a beautiful tutorial my little feelseal
Thank you for your great feed-back. The feelseal feels real good reading those type of responses.

spoof - December 22, 2014, 12:04 pm

This is a very HQ guide Tirus, you always impress me.

stackoverflowin - December 23, 2014, 9:05 am

Thanks for the awesome guide, going to bookmark this and come back to it.

Tirus - December 24, 2014, 10:38 am

Thank you all for the great feed-back.

Still no sticky.. ?

White Light - December 24, 2014, 7:16 pm

(Dec 24, 2014 11:38 AM)Tirus Wrote: [\[CITE\]](#) Thank you all for the great feed-back.

Still no sticky.. ?

Have you PM'd Omni about it? He doesn't go looking through sections all the time for HQ threads.

Palladium - December 25, 2014, 9:28 pm

Is Tirus exiled? His username is black.

White Light - December 25, 2014, 9:44 pm

(Dec 25, 2014 10:28 PM)HacksBro Wrote: [\[CITE\]](#) Is Tirus exiled? His username is black.
He requested a vacation ban. Just checked the bans page. First time using it to actually find someone.

Loki123 - December 29, 2014, 2:35 am

(Dec 25, 2014 10:44 PM)White Light Wrote: [\[CITE\]](#) He requested a vacation ban. Just checked the bans page. First time using it to actually find someone.
Aaaand he is back now. ?

Now like I said, *nix threads don't get much attention. ?

63 posts divided with 20 people.. ?

Omniscient - January 2, 2015, 7:15 pm

This is a copy/paste job. Doesn't deserve anything.