

Shell Scripting

Basic Commands

echo \$0	display current shell
cat /etc/shells	display available shells
cat /etc/passwd	shows user's shell e.g. /bin/bash)
chmod a+x scriptname	allow execute permission for all
./script.bash	execute from current location
/home/userdir/script.bash	execute from absolute location

Script Components

#!/bin/bash	Shell
# This script does X	Comment
echo/cp/grep	Command
if/while/for	Statement

Basic Scripts

nano output-screen

#!/bin/bash # made by Nicolas Sotelo whoami echo pwd echo hostname echo ls -ltr echo	shell comment command space
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Variables

nano variable-command

#!/bin/bash a=Nicolas b=Sotelo c="Linux Class" echo "My first name is \$a" echo "My surname is \$b" echo "My class is \$c"	set variable echo variable
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Input / Output

#!/bin/bash echo Hello, my name is Nicolas Sotelo echo echo What is your name? read namevar echo echo Hello \$namevar echo	read sets variable to the user's input echo variable
#!/bin/bash hnvar=`hostname` echo Hello, my hostname is \$hnvar echo echo What is your name? read namevar echo echo Hello \$namevar echo	set variable as a `command` echo the output

If-then scripts

#!/bin/bash count=100 if [\$count -eq 100] then echo Count is 100 else echo Count is not 100 fi	end if statement
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<pre>#!/bin/bash clear if [-e /home/nsotelo/error.txt] then echo "File exists" else echo "File does not exist" fi</pre>	
<pre>#!/bin/bash clear echo echo "What is your name?" echo read namevar echo echo Hello \$namevar sir echo echo "Do you like working in IT? (y/n)" read Like echo if ["\$Like" == "y"] then echo "You are cool" elif ["\$Like" == "n"] then echo "You should try IT, it's a good field" echo fi</pre>	

For Loops

- Runs repeatedly until specified number of variables is met

<pre>#!/bin/bash for numv in 1 2 3 4 5 do echo "Welcome \$numv times" done</pre>	assign 1 2 3 4 5 to numv repeatedly display for each of the specified
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#!/bin/bash for actionv in eat run jump play do echo "See Nick \$actionv" done	assign eat run jump play to actionv repeatedly display for each of the specified
#!/bin/bash for filev in {1..5} do touch \$filev done	for loop to create 5 files named 1-5
#!/bin/bash for filev in {1..5} do rm \$filev done	for loop to delete 5 files named 1-5
#!/bin/bash i=1 for day in Mon Tue Wed Thu Fri do echo "Weekday \$((i++)): \$day" done	specify days in for loop
#!/bin/bash a=1 for username in `awk -F: '{print \$1}' /etc/passwd` do echo "Username \$((a++)) : \$username" done	list all users one by one from /etc/passwd fil

Revision #1
Created 2026-07-05 06:12:55 UTC by Admin
Updated 2026-07-05 06:13:30 UTC by Admin