1 Shell CheatSheet

LANGUAGES

Updated: November 21, 2018

- PDF Link: cheatsheet-shell-A4.pdf, Category: languages
- Blog URL: https://cheatsheet.dennyzhang.com/cheatsheet-shell-A4
- \bullet Related posts: Vim CheatSheet, #denny-cheatsheets

File me Issues or star this repo.

1.1 Basic

Name	Comment
Redirect stdout/stderr	ls /tmp >/dev/null 2>&1
Deal with filename	basename \$f, dirname \$f
Use timeout: avoid command hang	timeout 10 sh -c 'ls -lt'
Restart shell without killing terminal	exec -1 \$SHELL
Run sub-shell	echo \$BASH_SUBSHELL; (echo "Running in subshell: \$BASH_SUBSHELL")
Set pipefail	set -ueoxv pipefail, set +ueoxv pipefail
Run static code check	Link: shellcheck

1.2 Shell script

Name	Comment
Trap exit signal	$\operatorname{code}/\operatorname{trap-exit.sh}$
Shell retry	$\operatorname{code/shell-retry.sh}$
Check if a string contains a substring	$\operatorname{code}/\operatorname{string-contains.sh}$
Check if a string in a list	code/string-in-list.sh, Link: stackoverflow
Log with timestamp	$\operatorname{code}/\operatorname{log-with-timestamp.sh}$
Quit if current user is not root	$\operatorname{code}/\operatorname{assert-user-root.sh}$
Set -x on fly	code/restore-debug-output.sh

1.3 Environment variables

Name	Comment
List all environment variables	export
Define a new env variable	export NAME1="value1"

1.4 zsh

Name	Comment
Disable all zsh's autocorrect	In ~/.zshrc, unsetopt correct_all
Disable a given autocorrect	In ~/.zshrc, alias ssh='nocorrect ssh'. zsh _{disable}

1.5 GNU tools

1.5.1 Echo string

Name	Comment
Echo red text	echo -e "hello,[0;31m there [0;31m"
Echo multiple lines	echo -e "hello,"
Echo bold text	echo -e hello, " $\033[1m$ This is bold text. $\033[0m]$ "
Echo underlined text	echo -e hello, "\033[4mThis is underlined text.\033[0m"

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1.6 Shell Basic

1.6.1 cd

Name	Comment
Go to given folder	cd /var/log/
Go to folder in subshell	(cd /var/log/ && ls) After this, PWD won't be changed
Go to home	cd
Go to parent folder	cd
Go to previous folder	cd -

1.6.2 Numeric

Name	Comment	
*	expr 5 * 4	_
+	let $z=x+y$, $z=$x+y	
==	int1 -eq int2, [\$? -eq 0] && echo "good"	
>=	int1 -ge =int2	
>	int1 -gt =int2	
$\leq =$	<pre>int1 -le =int2</pre>	
<	<pre>int1 -lt =int2</pre>	
!=	int1 -ne =int2	

1.6.3 xargs

```
# Run grep for files filtered by find
find /var/log -name "*.log" | xargs grep -i error

# Loop with pipes
cat /etc/passwd | awk -F':' '{print $1}' | xargs -I{} sudo -l -U {} | grep -v "not allowed to"
```

1.7 Scripts

• Compare command output

```
[ O -eq $(find ./data -name "*.txt" -type f -print | wc -1) ]
```

• get ip from eth0

/sbin/ifconfig eth0 | grep 'inet addr:' | cut -d: -f2 | awk '{ print \$1}'

1.8 More Resources

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