

Assignment 3 Lab 3

I affirm that my work upholds the highest standards of honesty and academic integrity at Wittenberg and that I have neither given nor received unauthorized assistance.

Thomas Weis

Shell Scripts Created:

welcome.sh

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

```
echo "Welcome to the computer!"
```

long.sh

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

```
date
```

```
ls -l
```

Output, Steps, and Answers:

```
$ head /etc/services
```

```
# Network services, Internet style
```

```
#
```

```
# Note that it is presently the policy of IANA to assign a single well-known
```

```
# port number for both TCP and UDP; hence, officially ports have two entries
```

```
# even if the protocol doesn't support UDP operations.
```

```
#
```

```
# Updated from https://www.iana.org/assignments/service-names-port-numbers/service-names-port-numbers.xhtml .
```

```
#
```

```
# New ports will be added on request if they have been officially assigned
```

```
# by IANA and used in the real-world or are needed by a debian package.
```

```
$ ls /etc
```

acpi	cron.d	gai.conf	inputrc	magic	passwd-
sane.d	ubuntu-advantage				
adduser.conf	cron.daily	gamemode.ini	insserv.conf.d	magic.mime	pcmcia
security	ucf.conf				
alsa	cron.hourly	gdb	iproute2	mailcap	perl
selinux	udev				
alternatives	cron.monthly	gdm3	issue	mailcap.order	pki
sensors3.conf	udisks2				
anacrontab	crontab	geoclue	issue.net	manpath.config	pm
sensors.d	ufw				
apg.conf	cron.weekly	ghostscript	kernel	mime.types	pnm2ppa.conf
services	update-manager				
apm	cups	glvnd	kernel-img.conf	mke2fs.conf	polkit-1
sgml	update-motd.d				
apparmor	cupshelpers	gnome	kerneloops.conf	modprobe.d	
popularity-contest.conf	shadow	update-notifier			
apparmor.d	dbus-1	groff	ldap	modules	ppp
shadow-	UPower				
apport	dconf	group	ld.so.cache	modules-load.d	profile
shells	usb_modeswitch.conf				
appstream.conf	debconf.conf	group-	ld.so.conf	mtab	profile.d
skel	usb_modeswitch.d				

apt		debian_version	grub.d	ld.so.conf.d	mtools.conf	protocols
snmp	vim					
avahi		default	gshadow	legal	mysql	pulse
speech-dispatcher	vmware-tools					
bash.bashrc		deluser.conf	gshadow-	libao.conf	nanorc	python3
ssh	vtrgb					
bash_completion		depmod.d	gss	libaudit.conf	netplan	python3.8
ssl	vulkan					
bash_completion.d		dhcp	gtk-2.0	libblockdev	network	rc0.d
subgid	wgetrc					
bindresvport.blacklist		dictionaries-common	gtk-3.0	libnl-3	networkd-dispatcher	rc1.d
	subgid-	wpa_supplicant				
binfmt.d		dpkg	hdparm.conf	libpaper.d	NetworkManager	rc2.d
	subuid	X11				
bluetooth		e2scrub.conf	host.conf	libreoffice	networks	rc3.d
subuid-	xattr.conf					
brlapi.key		emacs	hostid	locale.alias	newt	rc4.d
sudoers	xdg					
brlty		environment	hostname	locale.gen	nsswitch.conf	rc5.d
sudoers.d	xml					
brlty.conf		environment.d	hosts	localtime	openvpn	rc6.d
sysctl.conf	zsh_command_not_found					
ca-certificates		ethertypes	hosts.allow	logcheck	opt	rcS.d
sysctl.d						
ca-certificates.conf	firefox		hosts.deny	login.defs	os-release	resolv.conf
systemd						
ca-certificates.conf.dpkg-old	fonts		hp	logrotate.conf	PackageKit	rmt
terminfo						
calendar	fprintd.conf		ifplugd	logrotate.d	pam.conf	rpc
thermal						
console-setup	fuse.conf	init.d	ltrace.conf	papersize		rsyslog.d
cracklib	fwupd	initramfs-tools	machine-id	passwd		rygel.conf
tmpfiles.d						

```

$ who
thomas :0      2021-03-13 22:03 (:0)
$ date
Sun 14 Mar 2021 01:32:47 PM EDT
$ username -a
username: command not found
$ uname -a
Linux thomas-VirtualBox 5.8.0-44-generic #50~20.04.1-Ubuntu SMP Wed Feb 10 21:07:30 UTC 2021 x86_64
x86_64 x86_64 GNU/Linux
$ history | tail
307 head /etc/services
308 ls /ect
309 ls /etc
310 who
311 clear
312 who
313 date
314 username -a
315 uname -a
316 history | tail

```

\$!309

ls /etc

acpi		cron.d	gai.conf	inputrc	magic	passwd-
sane.d		ubuntu-advantage				
adduser.conf		cron.daily	gamemode.ini	insserv.conf.d	magic.mime	pcmcia
security		ucf.conf				
alsa		cron.hourly	gdb	iproute2	mailcap	perl
selinux		udev				
alternatives		cron.monthly	gdm3	issue	mailcap.order	pki
sensors3.conf		udisks2				
anacrontab		crontab	geoclue	issue.net	manpath.config	pm
sensors.d		ufw				
apg.conf		cron.weekly	ghostscript	kernel	mime.types	pnm2ppa.conf
apm		cups	glvnd	kernel-img.conf	mke2fs.conf	polkit-1
sgml		update-motd.d				
apparmor		cupshelpers	gnome	kerneloops.conf	modprobe.d	
popularity-contest.conf		shadow	update-notifier			
apparmor.d		dbus-1	groff	ldap	modules	ppp
shadow-		UPower				
apport		dconf	group	ld.so.cache	modules-load.d	profile
shells		usb_modeswitch.conf				
appstream.conf		debconf.conf	group-	ld.so.conf	mtab	profile.d
skel		usb_modeswitch.d				
apt		debian_version	grub.d	ld.so.conf.d	mtools.conf	protocols
snmp		vim				
avahi		default	gshadow	legal	mysql	pulse
speech-dispatcher		vmware-tools				
bash.bashrc		deluser.conf	gshadow-	libao.conf	nanorc	python3
ssh		vtrgb				
bash_completion		depmod.d	gss	libaudit.conf	netplan	python3.8
ssl		vulkan				
bash_completion.d		dhcp	gtk-2.0	libblockdev	network	rc0.d
subgid		wgetrc				
bindresvport.blacklist		dictionaries-common	gtk-3.0	libnl-3	networkd-dispatcher	rc1.d
subgid-		wpa_supplicant				
binfmt.d		dpkg	hdparm.conf	libpaper.d	NetworkManager	rc2.d
subuid		X11				
bluetooth		e2scrub.conf	host.conf	libreoffice	networks	rc3.d
subuid-		xattr.conf				
brlapi.key		emacs	hostid	locale.alias	newt	rc4.d
sudoers		xdg				
brlty		environment	hostname	locale.gen	nsswitch.conf	rc5.d
sudoers.d		xml				
brlty.conf		environment.d	hosts	localtime	openvpn	rc6.d
sysctl.conf		zsh_command_not_found				
ca-certificates		ethertypes	hosts.allow	logcheck	opt	rcS.d
sysctl.d						
ca-certificates.conf		firefox	hosts.deny	login.defs	os-release	resolv.conf
ca-certificates.conf.dpkg-old		fonts	hp	logrotate.conf	PackageKit	rmt
calendar		fprintd.conf	ifplugd	logrotate.d	pam.conf	rpc
chatscripts		fstab	init	lsb-release	pam.d	rsyslog.conf
console-setup		fuse.conf	init.d	ltrace.conf	papersize	rsyslog.d
timezone						

cracklib fwupd initramfs-tools machine-id passwd rygel.conf
tmpfiles.d

```
$ history | tail
310 who
311 clear
312 who
313 date
314 username -a
315 uname -a
316 history | tail
317 chmod =x first.sh
318 ls /etc
319 history | tail
$ !-5
uname -a
Linux thomas-VirtualBox 5.8.0-44-generic #50~20.04.1-Ubuntu SMP Wed Feb 10 21:07:30 UTC 2021 x86_64
x86_64 x86_64 GNU/Linux
history | tail
313 date
314 username -a
315 uname -a
316 history | tail
317 chmod =x first.sh
318 ls /etc
319 history | tail
320 username -a
321 uname -a
322 history | tail
$ history | head
  1 nano short.sh
  2 cat short
  3 cat short.sh
  4 ls -l
  5 nano short.sh
  6 cat short.sh
  7 nano first.sh
  8 chmod =x first.sh
  9 ls -l
10 cat first.sh
$ alias
alias alert='notify-send --urgency=low -i "${[ $? = 0 ]}&& echo terminal || echo error" "$(history|tail -n1|sed -e
\'s/^s*[0-9]\\+s*//;s/[:&]]s*alert$//\'")'
alias egrep='egrep --color=auto'
alias fgrep='fgrep --color=auto'
alias grep='grep --color=auto'
alias l='ls -CF'
alias la='ls -A'
alias ll='ls -aF'
alias ls='ls --color=auto'
$ alias d=date
$ d
Sun 14 Mar 2021 02:08:22 PM EDT
$ alias ls='ls -l'
```

```

$ ls ~
total 52
-rwxrwxr-x 1 thomas thomas 40 Mar 13 22:22 cptobak.sh
drwxr-xr-x 2 thomas thomas 4096 Mar 11 13:38 Desktop
drwxr-xr-x 2 thomas thomas 4096 Mar 11 13:38 Documents
drwxr-xr-x 2 thomas thomas 4096 Mar 11 13:38 Downloads
-rwxrwxr-x 1 thomas thomas 0 Mar 13 22:22 first.bak
---x--x--x 1 thomas thomas 44 Mar 13 21:01 first.sh
drwxr-xr-x 2 thomas thomas 4096 Mar 11 13:38 Music
-rwxrwxrwx 1 thomas thomas 95 Mar 13 23:18 myname.sh
-rwxrwxr-x 1 thomas thomas 42 Mar 14 13:22 part6
drwxr-xr-x 2 thomas thomas 4096 Mar 11 13:38 Pictures
drwxr-xr-x 2 thomas thomas 4096 Mar 11 13:38 Public
-rw-rw-r-- 1 thomas thomas 69 Mar 13 19:29 short.sh
drwxr-xr-x 2 thomas thomas 4096 Mar 11 13:38 Templates
-rw-rw-r-- 1 thomas thomas 0 Mar 13 21:50 'two words'
drwxr-xr-x 2 thomas thomas 4096 Mar 11 13:38 Videos
$
$ unalias ls
$ ls ~
cptobak.sh Desktop Documents Downloads first.bak first.sh Music myname.sh part6 Pictures Public
short.sh Templates 'two words' Videos
$ nano welcome.sh
$ chmod 777 welcome.sh
$ ./welcome.sh
Welcome to the computer!
thomas@thomas-VirtualBox:~$ nano long.sh
thomas@thomas-VirtualBox:~$ chmod 777 long.sh
thomas@thomas-VirtualBox:~$ ./long.sh
Sun 14 Mar 2021 02:26:25 PM EDT
total 64
-rwxrwxr-x 1 thomas thomas 40 Mar 13 22:22 cptobak.sh
drwxr-xr-x 2 thomas thomas 4096 Mar 11 13:38 Desktop
drwxr-xr-x 2 thomas thomas 4096 Mar 11 13:38 Documents
drwxr-xr-x 2 thomas thomas 4096 Mar 11 13:38 Downloads
-rwxrwxr-x 1 thomas thomas 0 Mar 13 22:22 first.bak
---x--x--x 1 thomas thomas 44 Mar 13 21:01 first.sh
-rwxrwxrwx 1 thomas thomas 30 Mar 14 14:25 long.sh
drwxr-xr-x 2 thomas thomas 4096 Mar 11 13:38 Music
-rwxrwxrwx 1 thomas thomas 95 Mar 13 23:18 myname.sh
-rwxrwxrwx 1 thomas thomas 43 Mar 14 14:20 myname.sh.save
-rwxrwxr-x 1 thomas thomas 42 Mar 14 13:22 part6
drwxr-xr-x 2 thomas thomas 4096 Mar 11 13:38 Pictures
drwxr-xr-x 2 thomas thomas 4096 Mar 11 13:38 Public
-rw-rw-r-- 1 thomas thomas 69 Mar 13 19:29 short.sh
drwxr-xr-x 2 thomas thomas 4096 Mar 11 13:38 Templates
-rw-rw-r-- 1 thomas thomas 0 Mar 13 21:50 'two words'
drwxr-xr-x 2 thomas thomas 4096 Mar 11 13:38 Videos
-rwxrwxrwx 1 thomas thomas 45 Mar 14 14:18 welcome.sh
thomas@thomas-VirtualBox:~$

```

Answer to Procedure Step 6 and 9:

By putting this in the background, you could make this available to run whenever you log in to the system.