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.

\$ Is /etc

	cron.d	gai.conf	inputrc	magic	passwd-
ubuntu-advantage					
	cron.daily	gamemode.ini	insserv.conf.d m	nagic.mime	pcmcia
ucf.conf					
	cron.hourly	gdb	iproute2	mailcap	perl
udev					
	cron.monthly	gdm3	issue	mailcap.order	pki
udisks2					
	crontab	geoclue	issue.net	manpath.config	pm
ufw					
	cron.weekly	ghostscript	kernel	mime.types	pnm2ppa.conf
services update-manager					
	cups	glvnd	kernel-img.conf i	mke2fs.conf	polkit-1
update-	motd.d				
	cupshelpers	gnome	kerneloops.conf	modprobe.d	
popularity-contest.conf shadow		update-notifier			
	dbus-1	groff	ldap	modules	ppp
UPower	•				
	dconf	group	ld.so.cache	modules-load.d	profile
usb_mo	deswitch.conf				
	debconf.conf	group-	ld.so.conf	mtab	profile.d
usb_mo	deswitch.d				
	ucf.conf udev udisks2 ufw s update- st.conf sh UPower usb_mo	ubuntu-advantage cron.daily ucf.conf cron.hourly udev cron.monthly udisks2 crontab ufw cron.weekly s update-manager cups update-motd.d cupshelpers st.conf shadow dbus-1 UPower dconf usb_modeswitch.conf	ubuntu-advantage cron.daily gamemode.ini ucf.conf cron.hourly gdb udev cron.monthly gdm3 udisks2 crontab geoclue ufw cron.weekly ghostscript update-manager cups glvnd update-motd.d cupshelpers gnome st.conf shadow update-notifier dbus-1 groff UPower dconf group usb_modeswitch.conf debconf.conf group-	ubuntu-advantage cron.daily gamemode.ini insserv.conf.d m ucf.conf cron.hourly gdb iproute2 udev cron.monthly gdm3 issue udisks2 crontab geoclue issue.net ufw cron.weekly ghostscript kernel update-manager cups glvnd kernel-img.conf in update-motd.d cupshelpers gnome kerneloops.conf st.conf shadow update-notifier dbus-1 groff Idap UPower dconf group Id.so.cache usb_modeswitch.conf debconf.conf group- Id.so.conf	ubuntu-advantage cron.daily gamemode.ini insserv.conf.d magic.mime ucf.conf cron.hourly gdb iproute2 mailcap udev cron.monthly gdm3 issue mailcap.order udisks2 crontab geoclue issue.net manpath.config ufw cron.weekly ghostscript kernel mime.types update-manager cups glvnd kernel-img.conf mke2fs.conf update-motd.d cupshelpers gnome kerneloops.conf modprobe.d st.conf shadow update-notifier dbus-1 groff Idap modules UPower dconf group Id.so.cache modules-load.d usb_modeswitch.conf debconf.conf group- Id.so.conf mtab

apt		debian_version	grub.d	ld.so.conf.d	mtools.conf	protocols
snmp	vim					
avahi		default	gshadow	legal	mysql	pulse
speech-dispatch	er vmwa					
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		dhcp	gtk-2.0	libblockdev	network	rc0.d
subgid	wgetrc					
bindresvport.blad		dictionaries-com	mon gtk-3.0	libnl-3	networkd-dispato	cher rc1.d
subgid-		wpa_supplicant				
binfmt.d		dpkg	hdparm.conf	libpaper.d	NetworkManage	r rc2.d
subuid		X11				
bluetooth		e2scrub.conf	host.conf	libreoffice	networks	rc3.d
subuid-	xattr.co	nf				
brlapi.key		emacs	hostid	locale.alias	newt	rc4.d
sudoers	xdg					
brltty		environment	hostname	locale.gen	nsswitch.conf	rc5.d
sudoers.d	xml					
brltty.conf		environment.d	hosts	localtime	openvpn	rc6.d
sysctl.conf	zsh_coi	mmand_not_found				
ca-certificates		ethertypes	hosts.allow	logcheck	opt	rcS.d
sysctl.d						
ca-certificates.co	nt	firefox	hosts.deny	login.defs	os-release	resolv.conf
systemd						
ca-certificates.co	nf.dpkg-d	old fonts	hp	logrotate.conf	PackageKit	rmt
terminfo		6. 2. (1 6	26.1	Leave Cate of		
calendar		fprintd.conf	ifplugd	logrotate.d	pam.conf	rpc
thermald						
console-setup		fuse.conf	init.d	Itrace.conf	papersize	rsyslog.d
cracklib		fwupd	initramfs-tools n	nacriine-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 Is /etc

310 who

311 clear

312 who

313 date

314 username -a

315 uname -a

316 history | tail

\$!309						
Is /etc						
acpi		cron.d	gai.conf	inputrc	magic	passwd-
sane.d	ubuntu-	advantage				
adduser.conf		cron.daily	gamemode.ini	insserv.conf.d i	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-					
apparmor		cupshelpers	gnome	kerneloops.conf	modprobe.d	
popularity-contes	st.conf sh		update-notifier			
apparmor.d		dbus-1	groff	ldap	modules	ppp
shadow-	UPower					C.I
apport		dconf	group	ld.so.cache	modules-load.d	profile
shells	usb_mo	deswitch.conf				ci. i
appstream.conf		debconf.conf	group-	ld.so.conf	mtab	profile.d
skel	usb_mo	deswitch.d		11		(1 .
apt		debian_version	grub.d	ld.so.conf.d	mtools.conf	protocols
snmp	vim					
avahi		default	gshadow	legal	mysql	pulse
speech-dispatche	er vmwai			liboo conf		mudh a m O
bash.bashrc	4	deluser.conf	gshadow-	libao.conf	nanorc	python3
ssh	vtrgb	مام سموم ما ما		lib a velit a a mf	m o fundo m	mudham 0.0
bash_completion	ı vulkan	depmod.d	gss	libaudit.conf	netplan	python3.8
ssl bash_completion		dhcp	gtk-2.0	libblockdev	network	rc0.d
subgid	wgetrc	uncp	gik-2.0	IIDDIOCKGEV	HELWOIK	100.u
bindresvport.blac	Ū	dictionaries-comr	non atk-3.0	libnl-3	networkd-dispato	her rold
subgid-	MISL	wpa supplicant	non gik-3.0	IIDIII-3	networku-dispato	ilei ici.u
binfmt.d		dpkg	hdparm.conf	libpaper.d	NetworkManage	rc2.d
subuid		X11	парапп.соп	порарст.	Networkiviariagei	102.0
bluetooth		e2scrub.conf	host.conf	libreoffice	networks	rc3.d
subuid-	xattr.cor		11031.00111	iibicomec	TICTWOTKS	100.0
brlapi.key	λαιι	emacs	hostid	locale.alias	newt	rc4.d
sudoers	xdg	Ciriado	nootia	iodaic.aiiao	nowe	101.0
britty	Aug	environment	hostname	locale.gen	nsswitch.conf	rc5.d
sudoers.d	xml	on vii on in ion	noothanno	iocaio.gon	110011111111111111111111111111111111111	100.0
brltty.conf	AIIII	environment.d	hosts	localtime	openvpn	rc6.d
sysctl.conf	zsh cor	nmand_not_found	110010	localario	оронурн	100.0
ca-certificates	2011_001	ethertypes	hosts.allow	logcheck	opt	rcS.d
sysctl.d		, poo				
ca-certificates.co	nf	firefox	hosts.deny	login.defs	os-release	resolv.conf
ca-certificates.co			hp	logrotate.conf		rmt
calendar	aping ic	fprintd.conf	ifplugd	logrotate.d	pam.conf	rpc
chatscripts		fstab	init Isb-relea	-	rsyslog.	·
console-setup		fuse.conf	init.d	Itrace.conf	papersize	rsyslog.d
timezone		.300.00111			paper 0120	. 5, 5, 5, 5, 5

```
cracklib
                           fwupd
                                             initramfs-tools machine-id
                                                                                                    rygel.conf
                                                                                  passwd
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 Is /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 Is /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 Is -I
         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 I='ls -CF'
alias la='ls -A'
alias II='Is -aIF'
alias Is='Is --color=auto'
$ alias d=date
Sun 14 Mar 2021 02:08:22 PM EDT
$ alias Is='Is -I'
```

```
$ Is ~
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 Is
$ Is ~
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 mvname.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.