This set of instructions are tested on OpenSUSE Leap 15.2 in Oracle VirtualBox

This lab will be divided into three sections:

- 1. Basic Network Configuration
- 2. Network troubleshooting

Wherever you see @αβxyz, change it to the first letters of your names, concatenate b23 and last 3 digits of your reg number.

E.g.: John Doe S19B23/000 becomes jdb23000

A. Basic Network Configuration

Step 1. Hostname and IP address assignment

1.	Issu	e the following commands at the terminal of your Linux machine and at record eac
	outp	out.
	(a)	uname -n
	(b)	hostname
	(c)	hostnamectl
	(d)	cat /proc/sys/kernel/hostname
	(e)	cat /etc/hosts
	(f)	hostname -f
	(g)	cat /etc/hostname
	(h)	cat /etc/resolv.conf
2.	Set a	a new hostname for your machine using the set of instructions listed below:
	(a)	edit /etc/hosts file (use any editor) and replace every entry of localhost with @αβxyz
		u1mz (requires root privileges)
	(b)	at the terminal prompt, type hostname @αβxyz-u1mz
	(c)	What output do you get with:
		i. ping localhost
		ping @αβxyz-u1mz
		iii. uname -n
		iv. hostname
		v. hostnamectl
		vi. cat /proc/sys/kernel/hostname
		vii. cat /etc/hosts
		viii. hostname -f
		ix. cat /etc/hostname
		X. cat /etc/resolv.conf
	(d)	At the terminal prompt, type:

sudo hostnamectl --static set-hostname st $@\alpha\beta xyz$ -u1mz

	ii.	sudo hostnamectltransient set-hostname @αβxyz-u1mz
(e)	Wha	at output do you get with:
	i.	ping st_@αβxyz-u1mz
	ii.	ping @αβxyz-u1mz
	iii.	uname -n
	iv.	hostname
	٧.	hostnamect1
	vi.	cat /proc/sys/kernel/hostname
	vii.	cat /etc/hosts
	viii.	hostname -f
	ix.	cat /etc/hostname
	х.	cat /etc/resolv.conf

Step 2. Network troubleshooting

- 1. Ping tests
- 2. Traceroute tests