**Useful Commands and Config Files Cheat Sheet**

**Part 1**

Examining/Working with Networking (from your server):

**ip address show** # show configured IP addresses (the new way)

**ifconfig** # show configured IP addresses (the old way)

**hostname -I** # show all public IP addresses

**iptables -L** # list human readable listing of iptables ACLs chains

**iptables -F** # flush all iptables rules
**iptables -A INPUT -i eth0 -p tcp --dport 22 -m state --state NEW,ESTABLISHED -j ACCEPT**

# chain interface proto dest port ^the state of the packet^ target

**iptables -t filter -A INPUT -j LOG** # Log packets that make it this far (good for watching)
**iptables -t filter -A INPUT -j REJECT** # Reject packets that make it this far (common last rule)

**nmap -sS {target}** # stealth port scan

**nmap -sP 10.1.1.1/24** # ping scan the IPs of the 10.1.1.x octet

**netstat -ant** # local IP/port bindings: see [a]ll [n]umerical [t]cp

**netstant -antp** # same as above + show process names bound to ports

Working with Files & Services:

**vim**  # requisite editor (or vi) on most all unix systems

**nano** # popular editor, but not as ubiquitous as vi/vim

**apt-get** # working with configured OS package repositories

**aptitude** # working with configured OS package repositories

**service <service name> start|stop|restart|status** # running service control

**update-rc.d <service> enable|disable**

# older, systemV init based service config control

**systemctl start|stop|restart|status <servicename>.service**

 # newer, systemd based service config control

**mv <file1> <path/file2>** # move or rename file1 to file2

**cp -a <file> <path/>** # archive copy w/preserving attributes/modes

**ps auxw | grep xxx** # list all processes and grep (filter) for “xxx”

**/etc/firewall.sh** # our distro-agnostic iptables firewall Network ACLs

**/etc/apache2/ports.conf** # the apache2 IP/port bindings (needs a restart)

**/etc/mysql/my.cnf** # The main MySQL daemon config file (needs a restart)

**/etc/services** # The human readable service names into port numbers

**Part 2**

Examining/Working with Networking (from your server):

**service <name> restart** # restart a service or daemon (mysql, postfix, etc)

**service <name> --status-all** # show all services and if configured to run

**ip address show** # show configured IP addresses (the new way)

**hostname -I** # show all public IP addresses

**netstant -antp|grep -e ^Proto -e :25**

# lists the header ^^ + process names with port binding of :25

**aptitude -y -q full-upgrade** # full upgrade, yes-prompts quiet mode

**cp -a <source> <dest>** # copies file and its mode and attributes

**chmod 711 <folder>** # makes directory only readable/writable by its owner

 # but allows those who know the internal structure to

 # still enter (or execute entering) the directory

**tail -f <logfile**> # great way of watching a log file in real time

Important Configuration Files:

**/etc/ssh/sshd\_config** # the main ssh daemon config file

# sshd must be restarted after changing

**/etc/apache2/apache.config** # the main apache2 config file

**/etc/postfix/main.cf** # The main postfix mail server config file

**/etc/fail2ban/jail.conf** # the main fail2ban (default) config file