

Rozdział 2: Konfiguracja Linuxa

2.1.

<https://www.virtualbox.org/>
<https://www.virtualbox.org/wiki/Downloads>

2.3.

```
sudo nano /etc/network/interfaces
wpisać:{
    # iface eth0 inet dhcp
    iface eth0 inet static
    address 192.168.1.115
    gateway 192.168.1.1
    netmask 255.255.255.0
    dns-search dns.tpsa.pl
    dns-nameservers 194.204.159.1 194.204.152.34
}
```

```
/etc/init.d/networking restart
/etc/init.d/networking stop
/etc/init.d/networking start
```

2.4.

```
po sklonowaniu
sudo nano /etc/network/interfaces
zmienić:{
    # iface eth0 inet dhcp
    iface eth0 inet static
    address 192.168.1.120
    gateway 192.168.1.1
    netmask 255.255.255.0
    dns-search dns.tpsa.pl
    dns-nameservers 194.204.159.1 194.204.152.34
}
/etc/init.d/networking restart
```

```
sudo ifdown eth0
sudo ifup eth0
```

2.5

```
hostname
hostname tomek
sudo nano /etc/hostname
sudo nano /etc/hosts
sudo reboot
```

2.6

```
setfont Uni2-Terminus20x10
```

2.7

```
sudo apt-get install ntpdate
sudo nano /etc/cron.daily/ntpdate

#!/bin/sh
ntpdate ntp.ubuntu.com

ll /etc/cron.daily/ntpdate

sudo chmod 755 /etc/cron.daily/ntpdate

ll /etc/cron.daily/ntpdate

sudo apt-get install ntp

strona: http://www.pool.ntp.org/pl/

sudo nano /etc/ntp.conf
```

2.8

```
sudo apt-get install ntpdate

sudo nano /etc/cron.daily/ntpdate

wpisać:
{
    #!/bin/sh
    ntpdate ntp.ubuntu.com
}

sudo chmod 755 /etc/cron.daily/ntpdate
ll /etc/cron.daily/ntpdate

sudo apt-get install ntp

http://www.pool.ntp.org/zone/pl

sudo nano /etc/ntp.conf
```

2.9.

```
sudo nano /etc/bind/named.conf.local
zone "ubuntu.kubisztal.pl" {
    type master;
    file "/etc/bind/db.kubisztal";
};

sudo nano /etc/bind/db.kubisztalkubis
```

```

$TTL      604800
@         IN      SOA      ubuntu.kubisztal.pl (
                        1          ; Serial
                        604800     ; Refresh
                        86400     ; Retry
                        2419200    ; Expire
                        604800 )   ; Negative Cache TTL
;
@         IN      NS       ns.example.com.
ns        IN      A        192.168.1.115

;inne komputery
klient.kubisztal.pl      IN      A        192.168.1.120

-----
$ttl 38400
kubisztal.pl. IN SOA ubuntu.kubisztal.pl. admin.kubisztal.pl. (
    1420202452
    10800
    3600
    604800
    38400 )
kubisztal.pl.      IN      NS       ubuntu.kubisztal.pl.
kubisztal.pl.      IN      A        192.168.1.115
ubuntu.kubisztal.pl.  IN      A        192.168.1.115

```

2.10

```

sudo apt-get install isc-dhcp-server
sudo nano /etc/default/isc-dhcp-server
wpisać:{
    INTERFACES="eth0"
}

sudo nano /etc/dhcp/dhcpd.conf
wpisać(np):{
    subnet 192.168.1.0 netmask 255.255.255.0{
        range 192.168.1.100 192.168.1.109;
        option routers 192.168.1.1;
    }
}

sudo service isc-dhcp-server start
sudo service isc-dhcp-server stop
sudo service isc-dhcp-server restart

```

2.11.

```

sudo service ssh status
sudo apt-get install openssh-server
sudo nano /etc/ssh/sshd_config
sudo service ssh restart

sudo service ssh stop
sudo service ssh start

ssh -p22 tomek@192.168.1.115
http://www.chiark.greenend.org.uk/~sgtatham/putty/download.html

```



2.12.

```
ll
cat > serwer.txt
    {to jest plik z serwera}

cat > klient.txt
    {to jest plik ze stacji klienta}

sftp tomek@192.168.1.115

ls -a

lls

put klient.txt

get serwer.txt

mkdir zdalny

cd zdalny

sudo poweroff
```

2.13.

```
sudo nano /etc/apt/sources.list

deb http://download.webmin.com/download/repository sarge contrib
deb http://webmin.mirror.somersettechsolutions.co.uk HYPERLINK
"http://webmin.mirror.somersettechsolutions.co.uk/repository"/repositor
y sarge contrib

wget http://www.webmin.com/jcameron-key.asc
sudo apt-key add jcameron-key.asc

sudo apt-get update
sudo apt-get install webmin

https://192.168.1.115:10000
```

2.14.

```
netstat -lp
sudo ufw enable
sudo ufw disable
sudo ufw reset

sudo ufw status
sudo ufw status verbose

sudo ufw allow 22
sudo ufw deny 80
sudo ufw delete deny 80
sudo ufw allow from 192.168.1.120
sudo ufw allow from 192.168.1.0/24
```



Rozdział 3: Instalacja usług serwerowych

3.1.

```
sudo apt-get update
sudo apt-get install apache2
```

3.2.

```
sudo apt-get install lynx
lynx www.onet.pl
```

3.3.

```
sudo mkdir -p /var/www/tomek.kubisztal.pl/html
sudo chown -R $USER:$USER /var/www/tomek.kubisztal.pl/html
```

```
sudo chmod -R 755 /var/www
```

```
nano /var/www/tomek.kubisztal.pl/html/index.html
```

```
<p>kubisztal.eu</p>
```

```
sudo cp /etc/apache2/sites-available/000-default.conf
/etc/apache2/sites-available/tomek.kubisztal.pl.conf
```

```
sudo nano /etc/apache2/sites-available/tomek.kubisztal.pl.conf
```

```
<VirtualHost *:80>
    ServerAdmin admin@tomek.kubisztal.pl
    ServerName tomek.kubisztal.pl
    ServerAlias www.kubisztal.pl
    DocumentRoot /var/www/tomek.kubisztal.pl/html
    ErrorLog ${APACHE_LOG_DIR}/error.log
    CustomLog ${APACHE_LOG_DIR}/access.log combined
</VirtualHost>
```

```
sudo a2ensite tomek.kubisztal.pl.conf
sudo service apache2 restart
sudo nano /etc/hosts
```

```
192.168.1.115 tomek.kubisztal.pl
```

3.4.

```
sudo apt-get install php5
cd /var/www/html
sudo nano info.php
{
    <?php
        phpinfo();
    ?>
}
```

3.5.

```
sudo apt-get install mysql-server libapache2-mod-auth-mysql php5-mysql
mysql -u root -p
show databases;
use mysql;
show tables;
```

```
sudo apt-get install phpmyadmin
```

3.6.

```
mysql -u root -p
```

```
CREATE DATABASE 'tomekblog' char set='utf8';
```

```
CREATE USER adminblog@localhost IDENTIFIED BY '123456';
```

```
GRANT ALL PRIVILEGES ON toekblog.* TO adminblog@localhost;
```

```
FLUSH PRIVILEGES;
```

<https://wordpress.org/download/>

```
cd ~
```

```
sudo wget https://pl.wordpress.org/wordpress-4.1-pl\_PL.tar.g HYPERLINK "https://pl.wordpress.org/wordpress-4.1-pl\_PL.tar.gz"z
```

```
lub
```

```
sudo wget http://wordpress.org/latest.tar.gz
```

3.7.

```
tar xzvf wordpress-4.1-pl_PL.tar.gz
```

```
lub
```

```
tar xzvf latest.tar.gz
```

```
cd ~/wordpress
```

```
nano wp-config-sample.php
```

```
sudo rsync -avP ~/wordpress/ /var/www/html/blog/
```

```
sudo chown -R toek:www-data *
```

```
mkdir /var/www/html/blog/wp-content/uploads
```

```
sudo chown -R :www-data /var/www/html/blog/wp-content/uploads
```

3.8.

```
FTP
```

```
sudo apt-get update
```

```
sudo apt-get install vsftpd
```

```
sudo nano /etc/passwd
```

```
sudo nano /etc/vsftpd.conf
```

```
write_enable=YES
```

```
local_umask=022
```

```
chroot_local_user=YES
```

```
dopisać:
```

```
allow_writeable_chroot=YES
```

```
sudo service vsftpd restart
```



3.9.

```
mkdir www
```

```
sudo mount --bind /var/www/tomek.kubisztal.pl/html/ /home/tomek/www/
```

```
sudo chown -R tomek:tomek html/
```

```
cd /user/share/doc/openvpn/
```

Rozdział 4: Własny serwer pocztowy

4.1.

```
sudo apt-get update
```

```
sudo apt-get install postfix
```

```
strona internetowa
```

```
sudo dpkg-reconfigure postfix
```

```
/etc/init.d/postfix reload
```

```
sudo nano /etc/postfix/main.cf
```

```
home_mailbox = Maildir/
```

```
telnet localhost 25
```

```
ehlo ubuntu.kubisztal.pl
```

```
mail from root:
```

```
rcpt to: tomek
```

```
data
```

```
to jest testowa wiadomosc
```

```
.
```

```
quit
```

```
cd ~
```

```
cd Maildir
```

```
cd new
```

4.2.

```
cd /etc/bind
```

```
sudo nano db.kubisztal
```

```
ubuntu.kubisztal.pl. IN MX 1 kubisztal.pl.
```

```
sudo apt-get install dovecot-imapd
```

```
sudo apt-get install dovecot-pop3d
```

```
cd /etc/dovecot
```

```
ll
```

```
cd conf.d/
```

```
ls
```

```
sudo nano 10-auth.conf
```

```
clear
```

```
disable_plaintext_auth = no
```

```
auth_mechanisms = plain login
```

```
sudo nano 10-mail.conf
```

```
odremowac
```



```
# mail_location = maildir:~/Maildir

sudo nano 10-master.conf
unix_listener auth-userdb{
    #mode = 0666
    #user = postfix
    #group = postfix
}

sudo service dovecot restart
telnet localhost pop3

user XXXXXXXXX
pass XXXXXXXXXXXX

list
retr 1

quit
```

4.3.

```
sudo apt-get install squirrelmail
sudo squirrelmail-configure
sudo cp /etc/squirrelmail/apache.conf /etc/apache2/sites-
available/squirrelmail.conf
sudo a2ensite squirrelmail
sudo service apache2 restart
```

<http://192.168.1.115/squirrelmail>

```
cd /var/www/html
sudo mkdir blog
```

<http://core.svn.wordpress.org/tags/>

Rozdział 5: Virtual Private Network

5.1.

```
sudo apt-get install openvpn easy-rsa
mkdir /etc/openvpn/easy-rsa/
cp -r /usr/share/easy-rsa/* /etc/openvpn/easy-rsa/

nano /etc/openvpn/easy-rsa/vars

export KEY_COUNTRY="US"
export KEY_PROVINCE="NC"
export KEY_CITY="Winston-Salem"
export KEY_ORG="Example Company"
export KEY_EMAIL="steve@example.com"
export KEY_CN=MyVPN
export KEY_NAME=MyVPN
export KEY_OU=MyVPN

export KEY_ALTNAMES="kanalVPN"

cd /etc/openvpn/easy-rsa/
source vars
./clean-all
./build-ca

./build-key-server ubuntu.kubisztal.pl
./build-dh

cd keys/
cp ubuntu.kubisztal.pl.crt ubuntu.kubisztal.pl.key ca.crt dh2048.pem
/etc/openvpn/

-----apt-get

cd /etc/openvpn/easy-rsa/
source vars
./build-key client1

/etc/openvpn/ca.crt

/etc/openvpn/easy-rsa/keys/client1.crt

/etc/openvpn/easy-rsa/keys/client1.key

zip <name of your archive> <file1_to_zip> <file2_to_zip> <file3_to_zip>
```

5.2.

```
ls -l /usr/share/doc/openvpn/examples/sample-config-files/
```

```
sudo cp /usr/share/doc/openvpn/examples/sample-config-files/server.conf.gz /etc/openvpn/
```

```
sudo gzip -d /etc/openvpn/server.conf.gz
```

```
cd /etc/openvpn/
```

```
nano server.conf
```

```
{  
    ca.crt  
    cert ubuntu.kubiszta.pl.crt  
    key  ubuntu.kubiszta.pl.key  
  
    dh dh2048.pem  
}
```

```
ifconfig
```

```
ifconfig tun0
```

5.3

```
sudo apt-get install openvpn
```

```
ll /usr/share/doc/openvpn/examples/sample-config-files/
```

```
sudo cp /usr/share/doc/openvpn/examples/sample-config-files/client.conf /etc/openvpn/
```

```
cd nano /etc/openvpn/client.conf
```

```
{  
    remote ubuntu.kubiszta.pl 1194  
    ca.crt  
    cert klient1.crt  
    key  klient1.key  
}
```

```
sudo apt-get install mc
```

```
sudo apt-get install usbmount
```

```
service openvpn start
```

```
ping 10.8.0.1
```

```
netstat -rn
```

Rozdział 6: Szybki start z CentOS

6.2

```
rpm -ivh http://dl.fedoraproject.org/pub/epel/beta/7/x86\_64/epel-release-7-0.2.noarch.rpm
```

```
yum -y install mariadb-server mariadb
```

```
systemctl start mariadb.service  
systemctl enable mariadb.service
```

```
mysql_secure_installation
```

6.3

```
yum -y install httpd  
systemctl start httpd.service  
systemctl enable httpd.service
```

6.4

```
firewall-cmd --permanent --zone=public --add-service=http  
firewall-cmd --permanent --zone=public --add-service=https  
firewall-cmd --reload
```

6.5

```
yum -y install php  
systemctl restart httpd.service
```

```
nano /var/www/html/info.php
```

```
<?php  
phpinfo();  
?>
```

```
yum -y install php-mysql
```

```
yum -y install php-gd php-ldap php-odbc php-pear php-xml php-xmlrpc  
php-mbstring php-snmp php-soap curl curl-devel
```

```
systemctl restart httpd.service
```

6.6

```
rpm -ivh http://dl.fedoraproject.org/pub/epel/beta/7/x86\_64/epel-release-7-0.2.noarch.rpm
```

```
yum install phpMyAdmin
```

```
nano /etc/httpd/conf.d/phpMyAdmin.conf
```

```
{
    Alias /pm /usr/share/phpMyAdmin

    #<Directory /usr/share/phpMyAdmin/>
    #    <IfModule mod_authz_core.c>
    #        # Apache 2.4
    #        <RequireAny>
    #            Require ip 127.0.0.1
    #            Require ip ::1
    #        </RequireAny>
    #    </IfModule>
    #    <IfModule !mod_authz_core.c>
    #        # Apache 2.2
    #        Order Deny,Allow
    #        Deny from All
    #        Allow from 127.0.0.1
    #        Allow from ::1
    #    </IfModule>
    #</Directory>

    <Directory /usr/share/phpMyAdmin/>
        Options none
        AllowOverride Limit
        Require all granted
    </Directory>
}
```

```
systemctl restart httpd.service
```

6.7

```
nano /etc/sudoers
```

```
{
    tomek ALL=(ALL) ALL
}
```

```
sudo yum -y install vsftpd
```

```
sudo nano /etc/vsftpd/vsftpd.conf
```

```
{
    anonymous_enable = No
    local_enable=Yes
    chroot_local_user=Yes
}
```

```
sudo systemctl restart vsftpd.service
```

```
sudo systemctl enable vsftpd.service
```

```
sudo firewall-cmd --permanent --zone=public --add-service=ftp
```



6.8

```
mkdir /home/tomek/www
```

```
mkdir /var/www/html/blog/
```

```
sudo chown -R tomek:tomek html/
```

```
sudo mount --bind /var/www/html/blog/ /home/tomek/www/
```