



UNIVERZITET U SARAJEVU
ELEKTROTEHNIČKI FAKULTET SARAJEVO

DOMAĆA ZADAĆA 3

ADMINISTRACIJA RAČUNARSKIH MREŽA

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Indeks: 17993

Odsjek: Računarstvo i Informatika

Datum:

16.05.2019

Potpis:

Postavka:

Zadaća je zasnovana na laboratorijskoj vježbi 6. Potrebno je uraditi i dokumentovati sljedeće akcije:

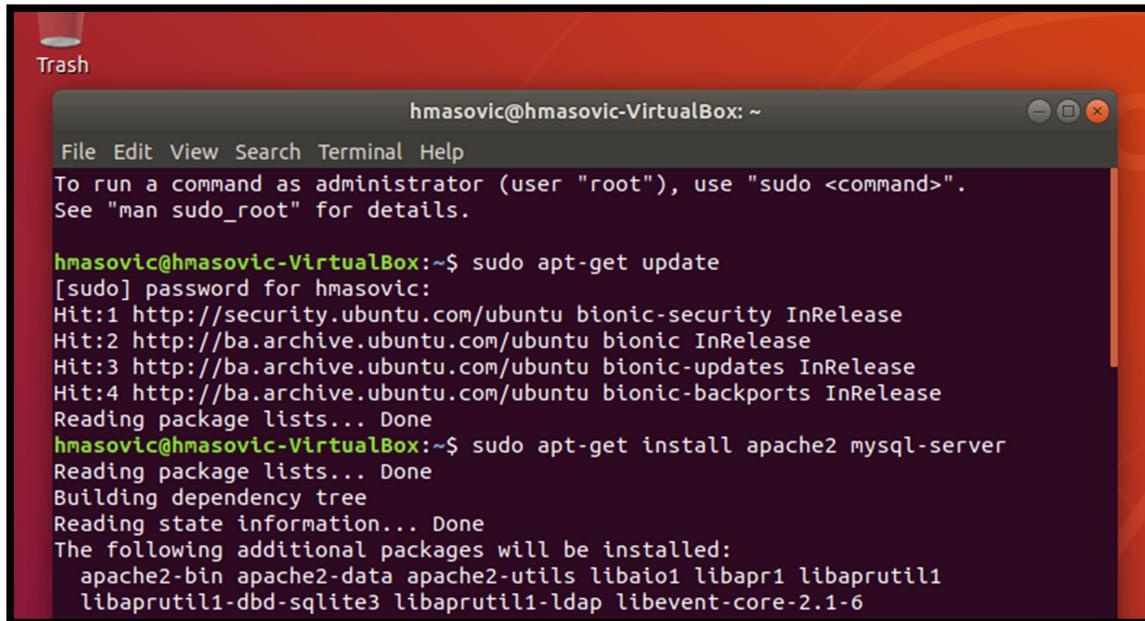
- Na virtuelnoj mašini instalirati Linux operativni sistem po želji
- Na operativnom sistemu podesiti Apache kao web server
- Instalirati potrebne pakete za pokretanje Joomla CMSa
- Proći kroz korake aktiviranja virtuelnog hosta dodijeljenog Joomla-i

Napomena: Nije potrebno dokumentovati slikama svaki od koraka instalacije ali je dobro da se ključne komande/postavke navedu pri izradi zadaće.

Ova zadaća se boduje sa 2 boda.

Rok za izradu zadaće je utorak 21.5.2019.

Potrebito je podesiti Apache kao web server. Instalirati ćemo prateći korake za instalaciju navedene u popratnom materijalu za vježbu 6.



The screenshot shows a terminal window titled "hmasovic@hmasovic-VirtualBox: ~". It displays the command-line interface for installing software. The user runs "sudo apt-get update" followed by "sudo apt-get install apache2 mysql-server". The terminal shows the progress of the download and installation of additional packages like apache2-bin, apache2-data, etc.

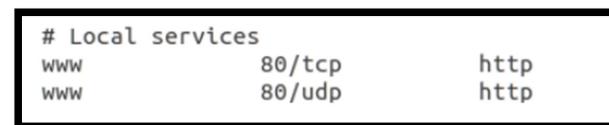
```
File Edit View Search Terminal Help
To run a command as administrator (user "root"), use "sudo <command>".
See "man sudo_root" for details.

hmasovic@hmasovic-VirtualBox:~$ sudo apt-get update
[sudo] password for hmasovic:
Hit:1 http://security.ubuntu.com/ubuntu bionic-security InRelease
Hit:2 http://ba.archive.ubuntu.com/ubuntu bionic InRelease
Hit:3 http://ba.archive.ubuntu.com/ubuntu bionic-updates InRelease
Hit:4 http://ba.archive.ubuntu.com/ubuntu bionic-backports InRelease
Reading package lists... Done
hmasovic@hmasovic-VirtualBox:~$ sudo apt-get install apache2 mysql-server
Reading package lists... Done
Building dependency tree
Reading state information... Done
The following additional packages will be installed:
  apache2-bin apache2-data apache2-utils libaio1 libapr1 libaprutil1
  libaprutil1-dbd-sqlite3 libaprutil1-ldap libevent-core-2.1-6
```

Na ovaj isti način ćemo i ostalu proceduru uraditi (samo bez slika radi jednostavnosti). U nastavku se prikazane sve komadne potrebne za setupovanje joomla-e i apache-a:

```
sudo apt - get install apache2 mysql-server
sudo add-apt-repository ppa:ondrej/php
sudo apt-get update
sudo apt-get install -y php7.0
sudo apt-get install php7.0-xml php7.0-mysql php7.0-curl php7.0-json php7.0-cgi
```

Nakon instalacije tj. unosa prethodnih komandi unutar /etc/services se mora dodati sljedeće:



The screenshot shows the /etc/services file with a new entry added. The entry is "# Local services" followed by "www 80/tcp http" and "www 80/udp http". This configuration allows both TCP and UDP ports 80 to be used for HTTP traffic.

# Local services		
www	80/tcp	http
www	80/udp	http

Nakon ovoga potrebno je napraviti dva direktorija za virtuelne hostove:

```
sudo mkdir /var/vhosts
sudo mkdir /var/vhosts/www
```

Sada treba editovati apache2.conf (recimo sudo gedit /etc/apache2/apache2.conf) i dodati sljedeće:

```
<Directory /var/vhosts>  
    Options Indexes FollowSymLinks  
    AllowOverride None  
    Require all granted  
</Directory>
```

Zatim treba definisati [www.conf](#) datoteku unutar sites-available foldera i unijeti sljedeće:

```
<VirtualHost *:80>  
    DocumentRoot /var/vhosts/www  
    ServerName arm.com  
    ServerAlias www.arm.com  
</VirtualHost>
```

Zatim treba napraviti symlink prema sites-enabled:

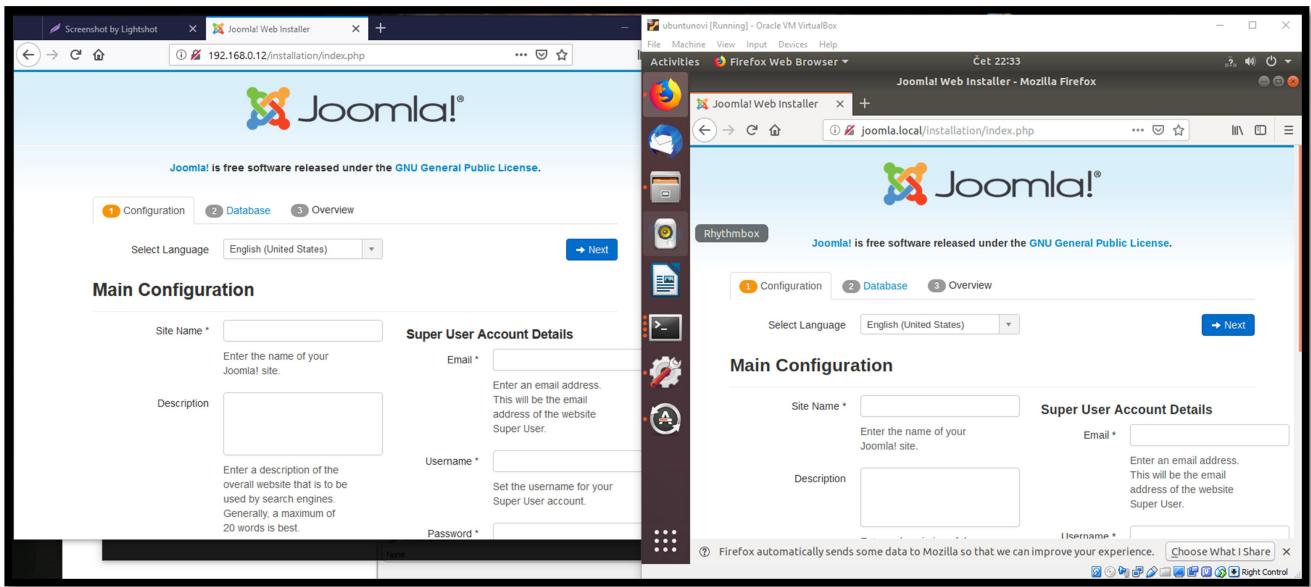
```
sudo ln -s /etc/apache2/sites-available/www.conf /etc/apache2/sites-enabled/www.conf
```

Nakon definisanja symlink-a slijedi niz komandi za omogućavanje rada:

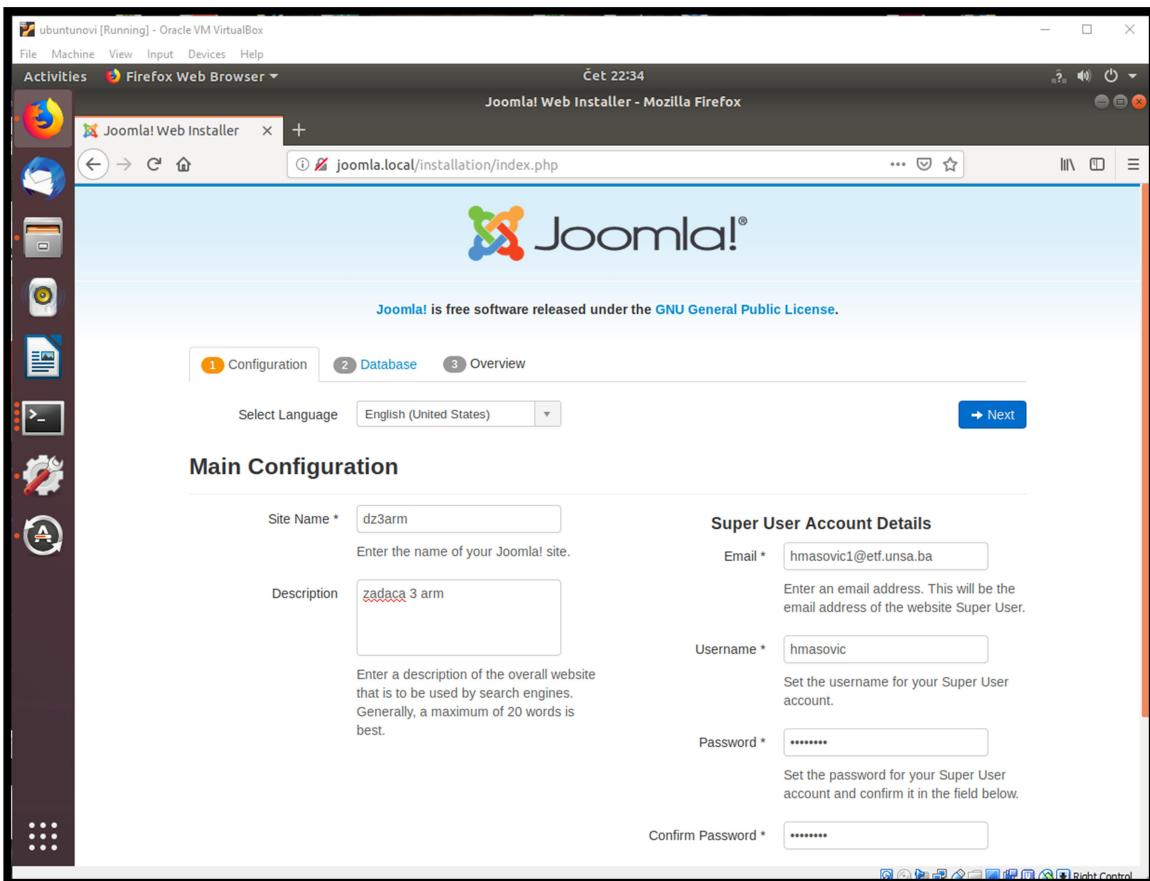
```
sudo chmod 777 /var/vhosts/www -R  
sudo a2dissite 000-default.conf  
systemctl reload apache2  
sudo a2ensite www.conf  
systemctl reload apache2
```

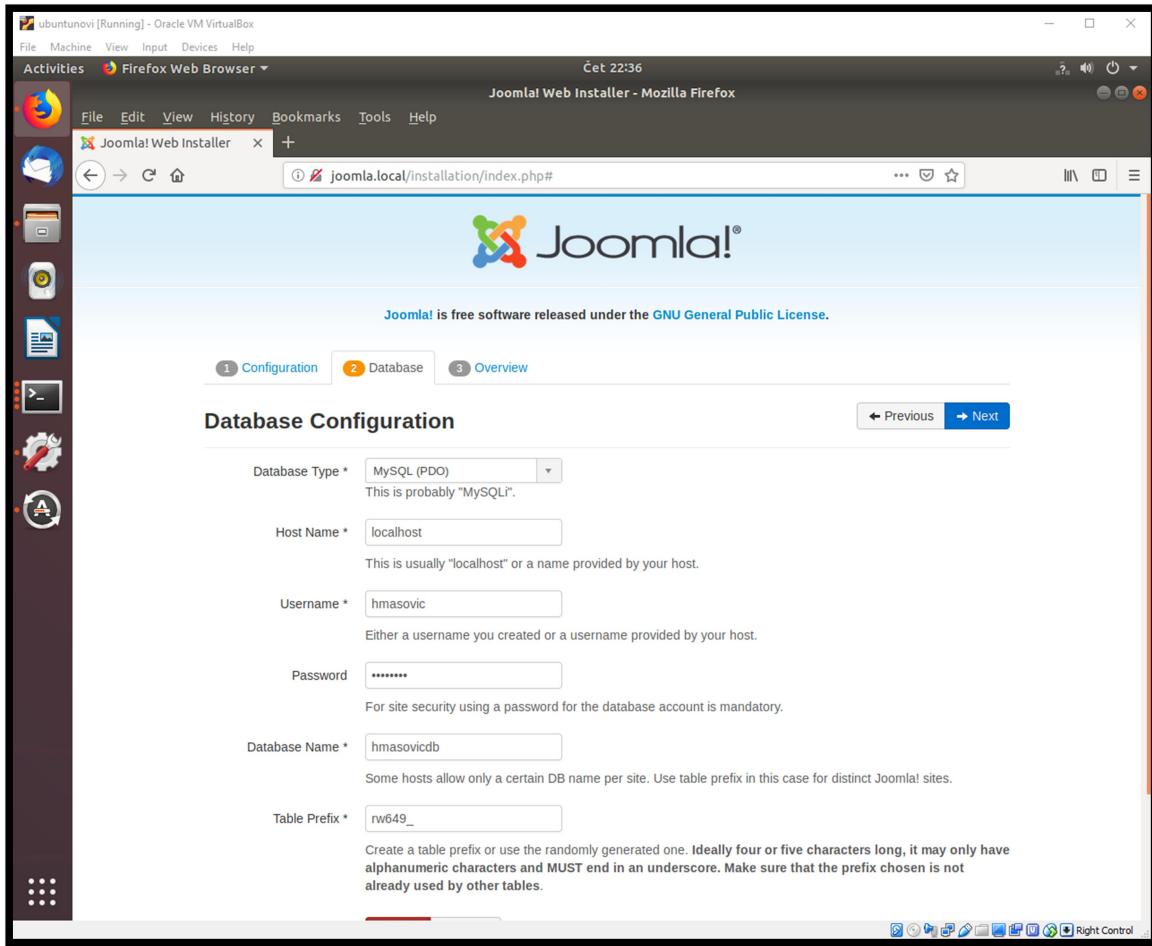
Također za našu VM možemo podesiti statičku IP adresu na 192.168.0.12. Također unutar hosts fajla možemo definisati da je localhost zapravo joomla.local .

Shodno svim dosadašnjim koracima kao rezultat dobijamo:



Definišimo konfiguraciju za našu joomla-u:





Također moramo i definisati novu bazu podataka i dati privilegije hmasovic@localhost na hmasovicdb bazi podataka, a to možemo uraditi sljedećim komandama:

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

Te unutar mysql komandne linije:

```
CREATE DATABASE hmasovicdb;  
GRANT ALL PRIVILEGES on hmasovicdb.* to 'hmasovic'@'localhost' identified by '111222'.  
QUIT
```

Nakon definisanja baze podataka i davanje privilegija i klikom na Next dobijamo:



Nakon instalacije i čekanja dobijamo kao finalni rezultat apache web server i joomla cms:

