PROGETTO DI TELEMATICA UNIPR
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/*Configurazione del Server HTTP*/

```
$ sudo dnf install httpd    //installa il modulo httpd
$ sudo systemctl start httpd    //avvia il modulo
$ systemctl enable httpd    //Avvia httpd all avvio
```

// il firewall ha due servizi predefiniti per httpd. il servizio http sulla porta 80/TCP, e il servizio https sulla porta 443/TCP.

```
$ sudo firewall-cmd --permanent --add-service=http --add-service=https
$ sudo firewall-cmd --permanent --list-all  //verifica attivazione servizi
$ sudo firewall-cmd --reload
```

/*Creazione certificato TSL e permessi*/
```
$ yum install httpd mod_ssl   //installa il modulo
$ openssl genrsa -passout pass:x -out rubrica.com.pass.key 2048
$ openssl rsa -passin pass:x -in rubrica.com.pass.key -out rubrica.com.key
$ rm *rubrica.com.pass.key
$ openssl req -new -key rubrica.com.key -out rubrica.com.csr
```

You are about to be asked to enter information that will be incorporated

into your certificate request.

What you are about to enter is what is called a Distinguished Name or a DN.

There are quite a few fields but you can leave some blank

For some fields there will be a default value,

If you enter '.', the field will be left blank.

Country Name (2 letter code) [XX]:it

State or Province Name (full name) []:italy

Locality Name (eg, city) [Default City]:parma

Organization Name (eg, company) [Default Company Ltd]:unipr

Organizational Unit Name (eg, section) []:

Common Name (eg, your name or your server's hostname) []:rubrica.com

Email Address []:leonardo.minaudo@studenti.unipr.it

Please enter the following 'extra' attributes

to be sent with your certificate request

A challenge password []: <<<<<<<<<<<< lasciare vuoto

An optional company name []:

```
$ openssl x509 -req -sha256 -days 365 -in rubrica.com.csr -signkey rubrica.com.key -out rubrica.com.crt
```

```
$ mv rubrica.com.key /etc/pki/tls/private/
$ mv rubrica.com.csr /etc/pki/tls/certs/
$ mv rubrica.com.crt /etc/pki/tls/certs/
```

```
$ chmod 0600 /etc/pki/tls/private/*rubrica.com.key
$ chmod 0600 /etc/pki/tls/certs/*rubrica.com.crt
$ chmod 0600 /etc/pki/tls/certs/*rubrica.com.csr
```

/*Configurazione VirtualHost*/
```
$ mkdir -p /srv/www/www/
$ vim /etc/httpd/conf.d/www.conf
```

```
<VirtualHost *:443>

    ServerName www.rubrica.com

    SSLEngine On

    SSLCertificateFile /etc/pki/tls/certs/rubrica.com.crt

    SSLCertificateKeyFile /etc/pki/tls/private/rubrica.com.key

    DocumentRoot /srv/www/www

</VirtualHost>

<Directory /srv/www/www>

    Require all granted

</Directory>
```

```
$ vim /etc/httpd/conf.d/ssl.conf
```

```
IncludeOptional conf.d/www.conf
```

```
$ vim /etc/hosts
```

```
10.0.2.15   www.rubrica.com rubrica.com
```

/*Creazione DB*/
```
$ sudo dnf install mariadb-server
$ sudo systemctl start mariadb
$ sudo mysql_secure_installation
$ sudo mysql
```

```
=> CREATE DATABASE rubrica_macelleria;
```

```
=> GRANT ALL ON rubrica_macelleria.* TO 'macelleria'@'localhost' IDENTIFIED BY 'rubrica' WITH GRANT
OPTION;

=> FLUSH PRIVILEGES;

=> exit

$ mysql -u macelleria -p

=> CREATE TABLE rubrica_macelleria.contatti (

  id INT AUTO_INCREMENT,

  nome varchar(10)  DEFAULT NULL,

  cognome varchar(10) DEFAULT NULL,

  indirizzo varchar(50) DEFAULT NULL,

  cell bigint(15) DEFAULT NULL,

  note varchar(70) DEFAULT NULL,

  PRIMARY KEY (id)

);


=> INSERT INTO rubrica_macelleria.contatti (nome, cognome, indirizzo, cell, note) VALUES

('Franco', 'Giggio', 'Via trazzera, 1 Trapani', 355522255, 'Piano 6'),

('Rosario', 'Lorenzo', 'Strada Bresciana, 12', 3415354444, ''),

('Ernesta', 'Palermo', 'Via Pisanelli, 147', 3271239808, NULL),

('Riccardo', 'Padovesi', 'Via Genova, 130', 3610150016, NULL),

('Adalgiso', 'Toscani', 'Discesa Gaiola, 103', 3378373857, NULL),

('Vivaldo', 'Trentino', 'Via delle Coste, 1', 3994387277, NULL),

('Delmina', 'Marcelo', 'Via Paolo Gaidano, 87', 3388219412, NULL),

('Gabriele', 'Milanesi', 'Via delle Viole, 104', 3845326322, NULL),

('Elio', 'Greece', 'Via Colonnello Galliano, 56', 3125797091, 'Piano 4'),

('Dina', 'Pinto', 'Vico Giganti, 110', 3719041331, NULL),

('Fidenzio', 'Rizzo', 'Via Archimede, 79', 3521283601, NULL),

('Giovanni', 'Falce', 'Via fischio, 88 Trapani', 56438228, ''),

('Giovanni', 'Barbara', 'Via Rodolico, 55', 56438228, 'Piano 4'),

('Francesco', 'Nizzo', 'Via Filo, 87', 3289561251, '');

=> exit
```

/*Installazione PHP*/

$ sudo dnf install php php-mysqlnd

/*Avvia httpd e mariaDB al boot*/

$ sudo systemctl enable mariadb

$ systemctl enable httpd

$ sudo systemctl restart httpd

/*Infine inserire il sito web nella cartella /srv/www/www */