

## MySQL Configuration Changes & Commands

### Change MySQL Configuration to Allow Remote Connections

Commands:

```
sudo nano /etc/mysql/mysql.conf.d/mysqld.cnf  
bind-address = 127.0.0.1  
bind-address = 0.0.0.0  
sudo systemctl restart mysql
```

### Database and Table Creation (event.sql)

Command to execute event.sql:

```
mysql -u root -p < event.sql
```

Key Contents of event.sql:

-- Create user with remote access

```
CREATE USER IF NOT EXISTS 'mina'@'%' IDENTIFIED BY 'password123';
```

-- Grant necessary permissions to the user

```
GRANT SELECT, INSERT, UPDATE, DELETE ON xperienceDB.* TO 'mina'@'%';
```

-- Ensure remote access authentication

```
ALTER USER 'mina'@'%' IDENTIFIED WITH mysql_native_password BY 'password123';
```

-- Apply privileges

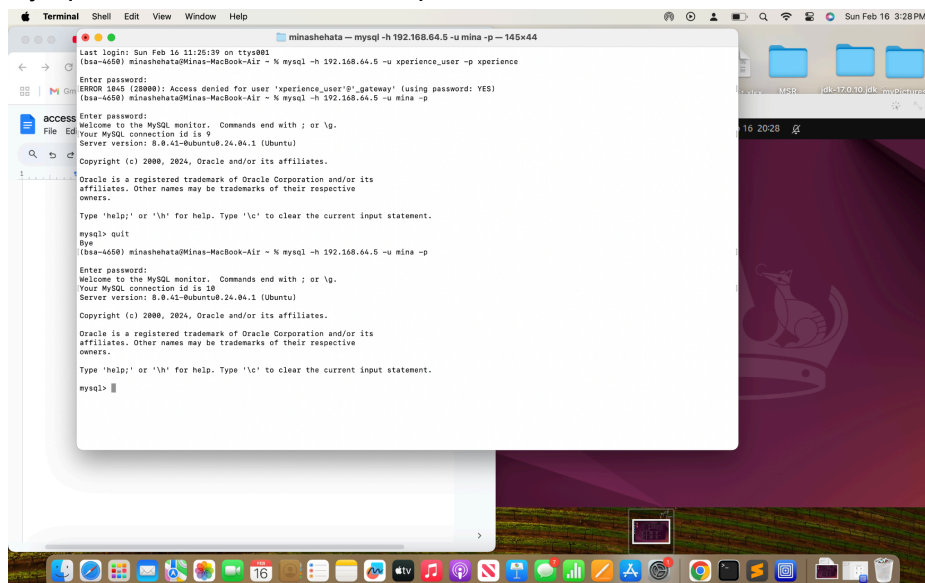
```
FLUSH PRIVILEGES;
```

### Check MySQL is Listening on All Interfaces (for Verification)

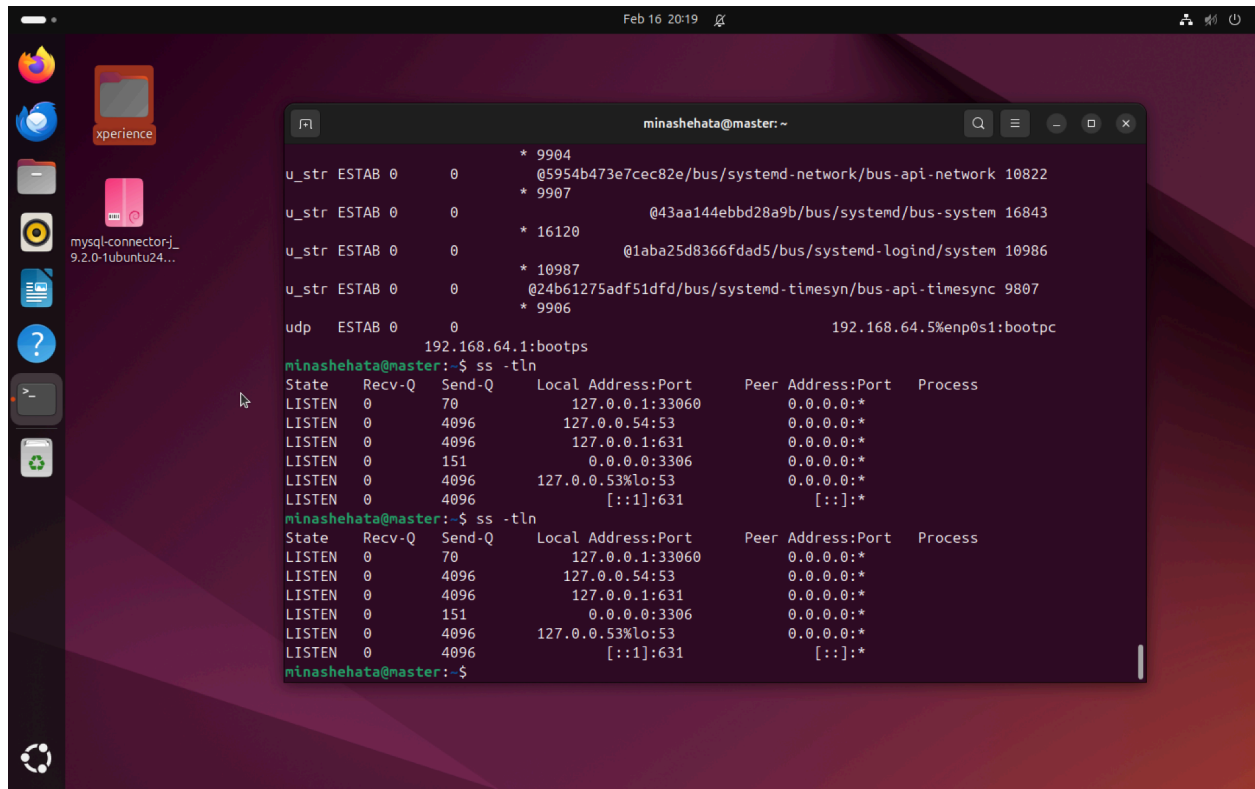
```
ss -ltn
```

Command to run from host:

```
mysql -h 192.168.64.5 -u mina -p
```



## Sockets:



The screenshot shows a Linux desktop with a dark theme. A terminal window titled 'minashehata@master: ~' is open, displaying the output of the 'ss' command. The terminal output shows established sockets for various system services and listening sockets for the 'tlnd' process. The desktop background is a dark purple and red gradient. The left sidebar contains icons for the Dash, Home, and Applications menus, as well as several application icons including Firefox, xperience, and a MySQL connector.

```
minashehata@master: ~  
u_str ESTAB 0 0 * 9904  
@5954b473e7cec82e/bus/systemd-network/bus-api-network 10822  
u_str ESTAB 0 0 * 9907  
@43aa144ebbd28a9b/bus/systemd/bus-system 16843  
u_str ESTAB 0 0 * 16120  
@1aba25d8366fdad5/bus/systemd-logind/system 10986  
u_str ESTAB 0 0 * 10987  
@24b61275adf51dfd/bus/systemd-timesyn/bus-api-timesync 9807  
* 9906  
udp ESTAB 0 0 192.168.64.5%enp0s1:bootpc  
192.168.64.1:bootps  
minashehata@master:~$ ss -tln  
State Recv-Q Send-Q Local Address:Port Peer Address:Port Process  
LISTEN 0 70 127.0.0.1:33060 0.0.0.0:*  
LISTEN 0 4096 127.0.0.54:53 0.0.0.0:*  
LISTEN 0 4096 127.0.0.1:631 0.0.0.0:*  
LISTEN 0 151 0.0.0.0:3306 0.0.0.0:*  
LISTEN 0 4096 127.0.0.53%lo:53 0.0.0.0:*  
LISTEN 0 4096 [::1]:631 [::]:*  
minashehata@master:~$ ss -tln  
State Recv-Q Send-Q Local Address:Port Peer Address:Port Process  
LISTEN 0 70 127.0.0.1:33060 0.0.0.0:*  
LISTEN 0 4096 127.0.0.54:53 0.0.0.0:*  
LISTEN 0 4096 127.0.0.1:631 0.0.0.0:*  
LISTEN 0 151 0.0.0.0:3306 0.0.0.0:*  
LISTEN 0 4096 127.0.0.53%lo:53 0.0.0.0:*  
LISTEN 0 4096 [::1]:631 [::]:*  
minashehata@master:~$
```