# Documentatie Database server opzetten in virtuele machine en deployment op ubuntu server

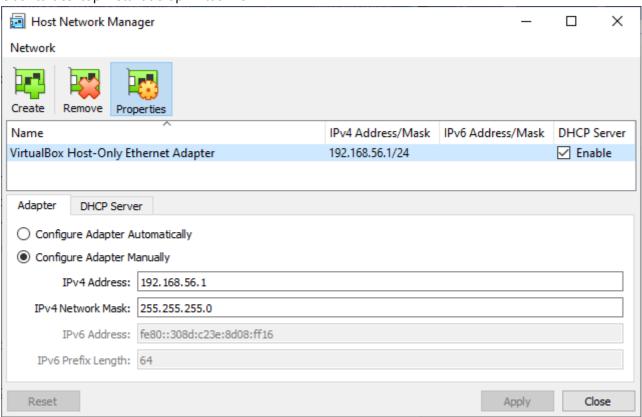
Documentatie type	Link
Online markdown documentation	github.com
Online pdf documentation	github.com

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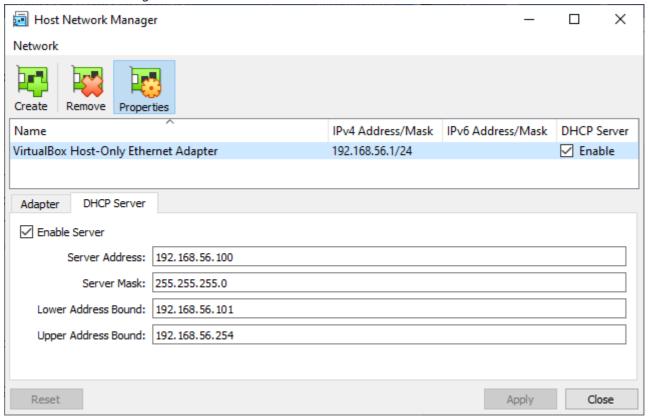
- 1. Ubuntu desktop "Virtual Box"
- 2. Ubuntu server "Virtual Box"
- 3. Ubuntu server "Bare-metal"

# Ubuntu desktop "Virtual Box"

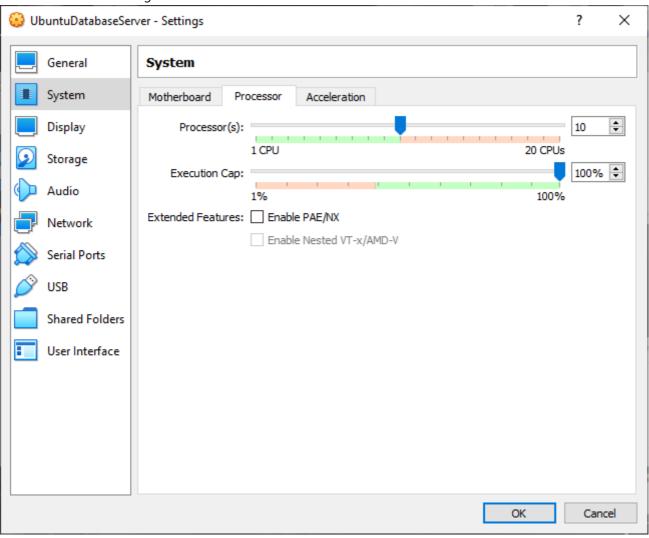
Ubuntu desktop installatie op Virtual Box



#### "Host Network instellingen"



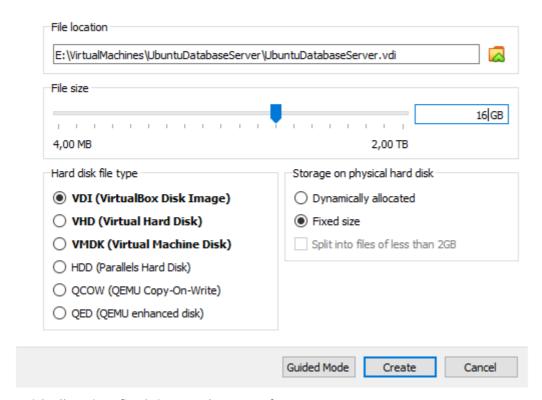
#### "DHCP netwerk instellingen"



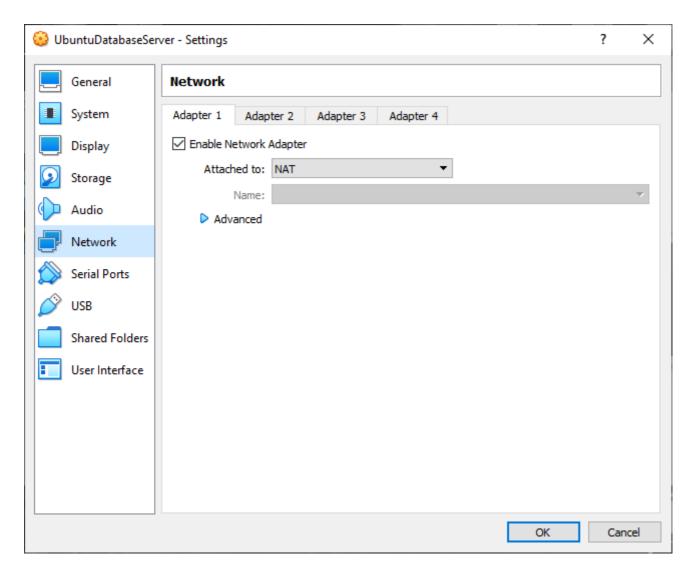
<sup>&</sup>quot;Virtual machine cpu core allocation"

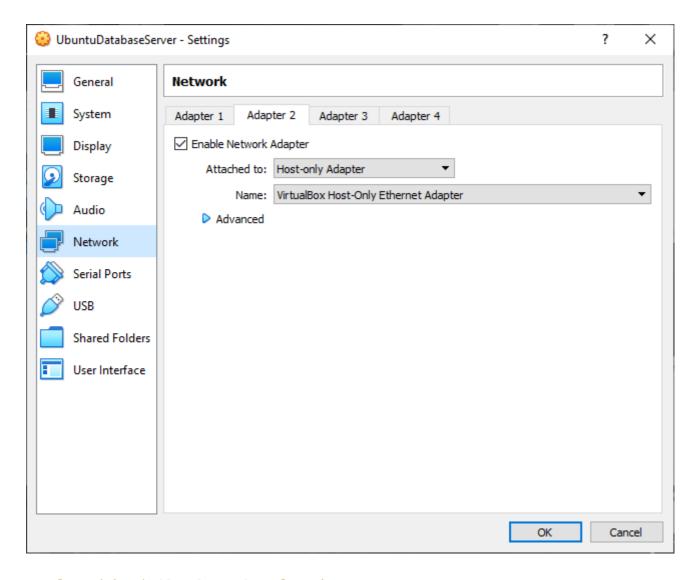
? ×

Create Virtual Hard Disk



<sup>&</sup>quot;Disk allocation (fixed size voor betere performance)"





mysql -uadmin -h192.168.56.101 -pletmein

```
Sommand Prompt: mycq "usdmin-h192.168.56.101 -pletmein — S. C:\Users\Quert>mysql _uadmin -h192.168.56.101 -pletmein mysql: [uenring] Using a password on the command fine Interface can be insecure.

**Town MysQl: Commention id is 11
**Server version: 8.0.28-0ubuntu0.20.04.3 (Ubuntu)
**Copyright (c) 2000, 2022, Oracle and/or its affiliates.

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**Oracle is a registered trademark of their respective owners.

**Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

**mysql'>
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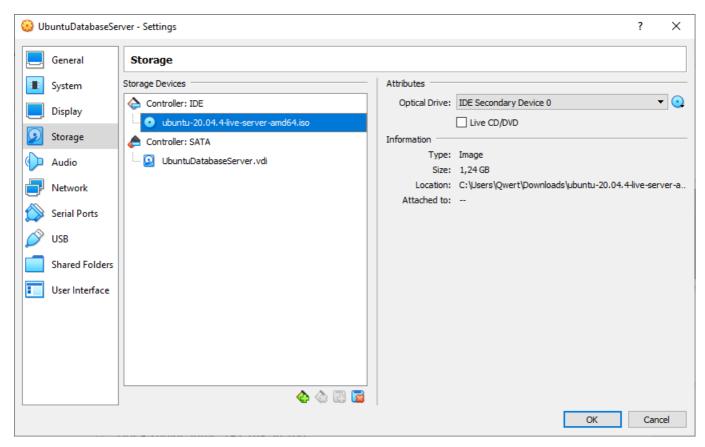
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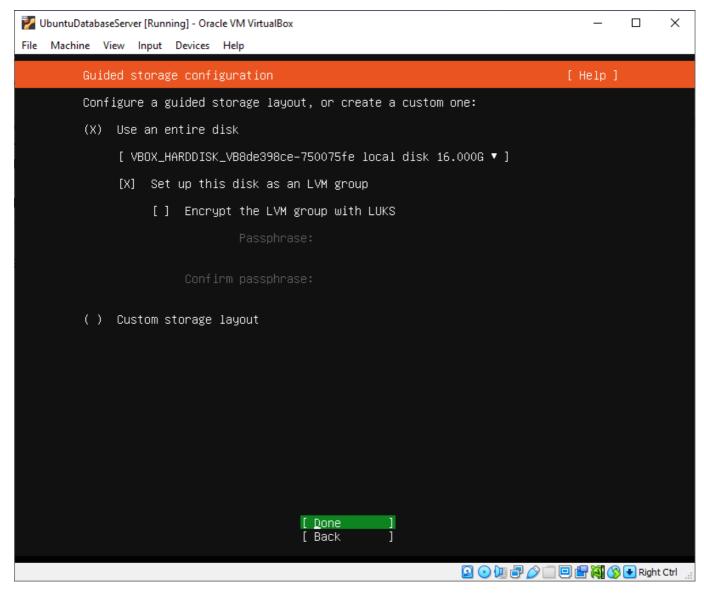
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**Type 'h
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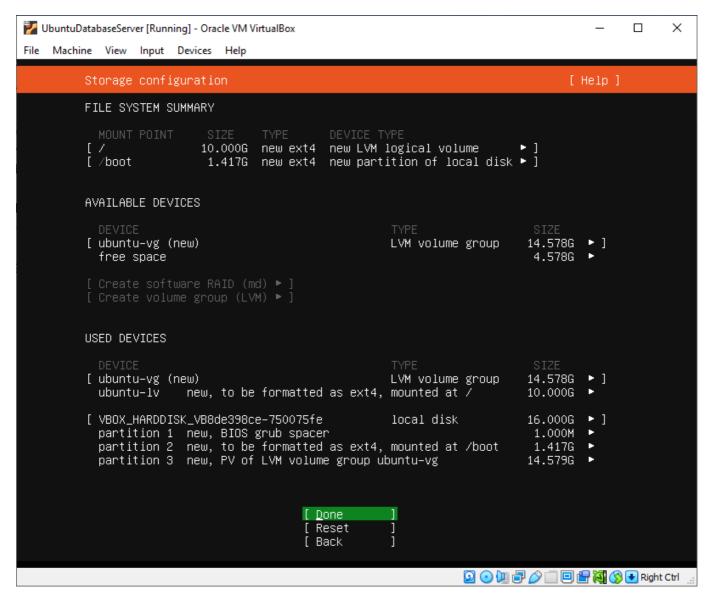
<sup>&</sup>quot;Verbinding met mysql-server via cmd op host pc naar virtuele machine."



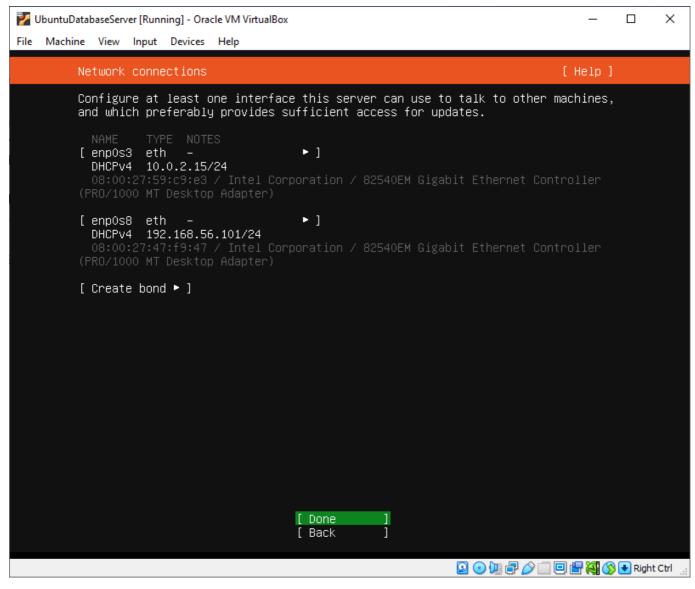
"Boot device voor Ubuntu Server"



<sup>&</sup>quot;Disk settings voor ubuntu server"



<sup>&</sup>quot;File system instellingen"



"Netwerk connections (werden automatisch ingevuld)"

<sup>&</sup>quot;systemctl status ssh.service"

#### Commando ss -tlnp

Met het commando sudo ss -tlnp kunnen we de poorten laten zien waar processen gebruik van maken. Ook wordt het ip4 adres weergegeven die in verbinding staan met de aangewezen poort. sudo ss -tlnp Ook zichtbaar zijn de commando's die werden gebruikt voor de configuratie van de mysgl server.

```
| Elements | Elements
```

## Ubuntu server "Bare-metal"

Na het uitvoeren van de opdracht in een virtuele omgeving besloten we om deze nu eens verder uit te werken op een ubuntu server omgeving die "bare-metal" draait. Deze server had ik al reeds gemaakt dus de installatie is niet gedocumenteerd.

#### Port forwarding

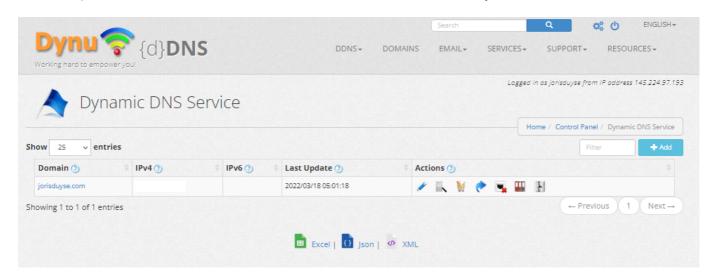
We openen twee tcp poorten naar de ubuntu server. Poort 22 voor de secure shell; poort 3306 voor de sql server.



"tcp poort 22 en 3306 open"

#### Dynamic DNS Service

Door het ip4 adres van ISP te verbinden met een DNS kan de server makkelijker benadert worden.



"Gebruik DNS jorisduyse.com"

#### ssh databaseg56@jorisduyse.com



"ssh commando naar database server (host adres reeds aangepast naar jorisduyse.com"

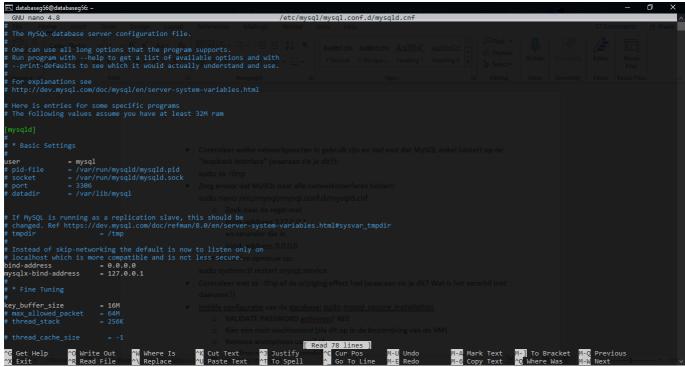


<sup>&</sup>quot;Verbinding met ssh server"

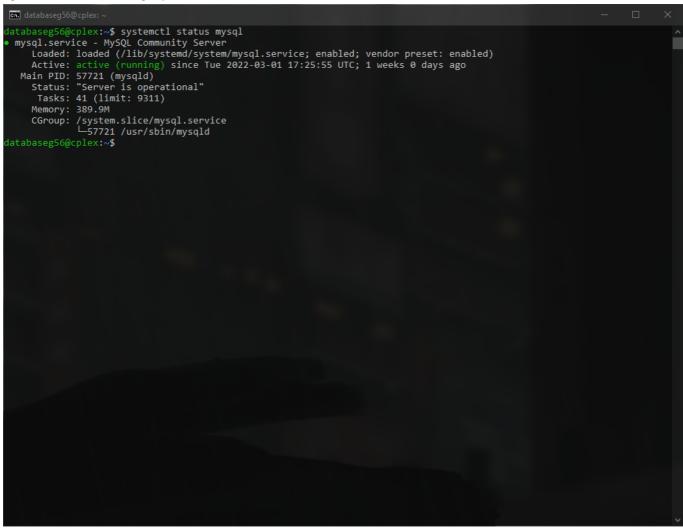
#### Bind adress config file

Door het bindadress in te stellen op 0.0.0.0, luisterd de mysql-server niet alleen naar een locale verbinding (127.0.0.1). Hierdoor kan de server benadert worden door apparaten op het netwerk.

sudo nano /etc/mysql/mysql.conf.d/mysqld.cnf

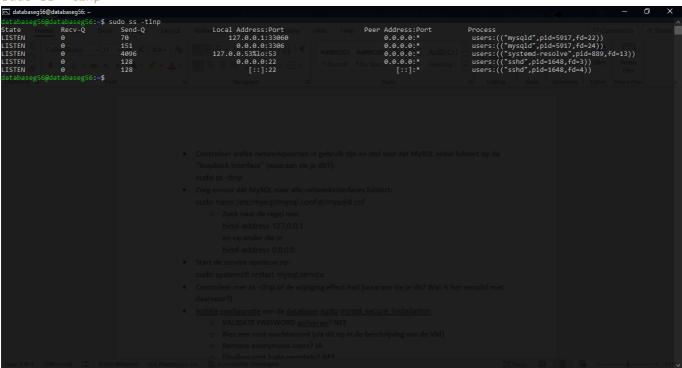


#### systemctl status mysql



"commando systemctl status mysql"

#### sudo ss -tlnp



<sup>&</sup>quot;Commando ss -tlnp op bare-metal server"