

JobScheduler Single node Installation

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Prepared for
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Dear Danny,

Please find in this paper step-by-step instruction on how to deploy JobScheduler single node on clean Ubuntu 18.04 image.

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Sincerely,

Igor Nemylostyyvi
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Overview

Purpose of this paper is to outline the required steps to perform single node JobScheduler deployment on clean Ubuntu 18.04 image.

Since the JOE component of JobScheduler require X11 and GTK when installed in Linux systems please proceed with preparation of Ubuntu 18.04 Desktop version with 'Minimal' option selected during deployment.

Steps of JobScheduler installation

Assumptions

- Ubuntu 18.04.2 LTS Desktop in Minimal option is deployed;
- The latest updates are installed and system is rebooted;
- The text <password> in sections below represents the desired password for root MySQL principal;
- The text <hostname> in sections below represents the current hostname (run 'hostname' in terminal to check it)

Login into Ubuntu desktop, open Terminal application and proceed with commands from next sections.

JRE part

```
sudo apt-get install openjdk-8-jre -y
```

SQL part

```
sudo apt install mysql-server -y  
sudo mysql_secure_installation -D
```

Q: Please set the password for root here

A: Provide desired password <password>

Q: Do you wish to continue with the password provided?

A: Y

```
sudo mysql  
> ALTER USER 'root'@'localhost' IDENTIFIED WITH mysql_native_password  
BY '<password>';  
> FLUSH PRIVILEGES;  
> set @wait_timeout = 31536000;  
> CREATE DATABASE scheduler;  
> USE scheduler;  
> exit
```

JobScheduler part

1. Start Firefox and open the SourceForge link for JobScheduler project:

<https://sourceforge.net/projects/jobscheduler/files/>

2. Download next files into default Downloads directory:

[https://sourceforge.net/projects/jobscheduler/files/jobscheduler_linux-x64.1.12.9.tar.gz
/download](https://sourceforge.net/projects/jobscheduler/files/jobscheduler_linux-x64.1.12.9.tar.gz/download)

https://sourceforge.net/projects/jobscheduler/files/joc_linux.1.12.9.tar.gz/download

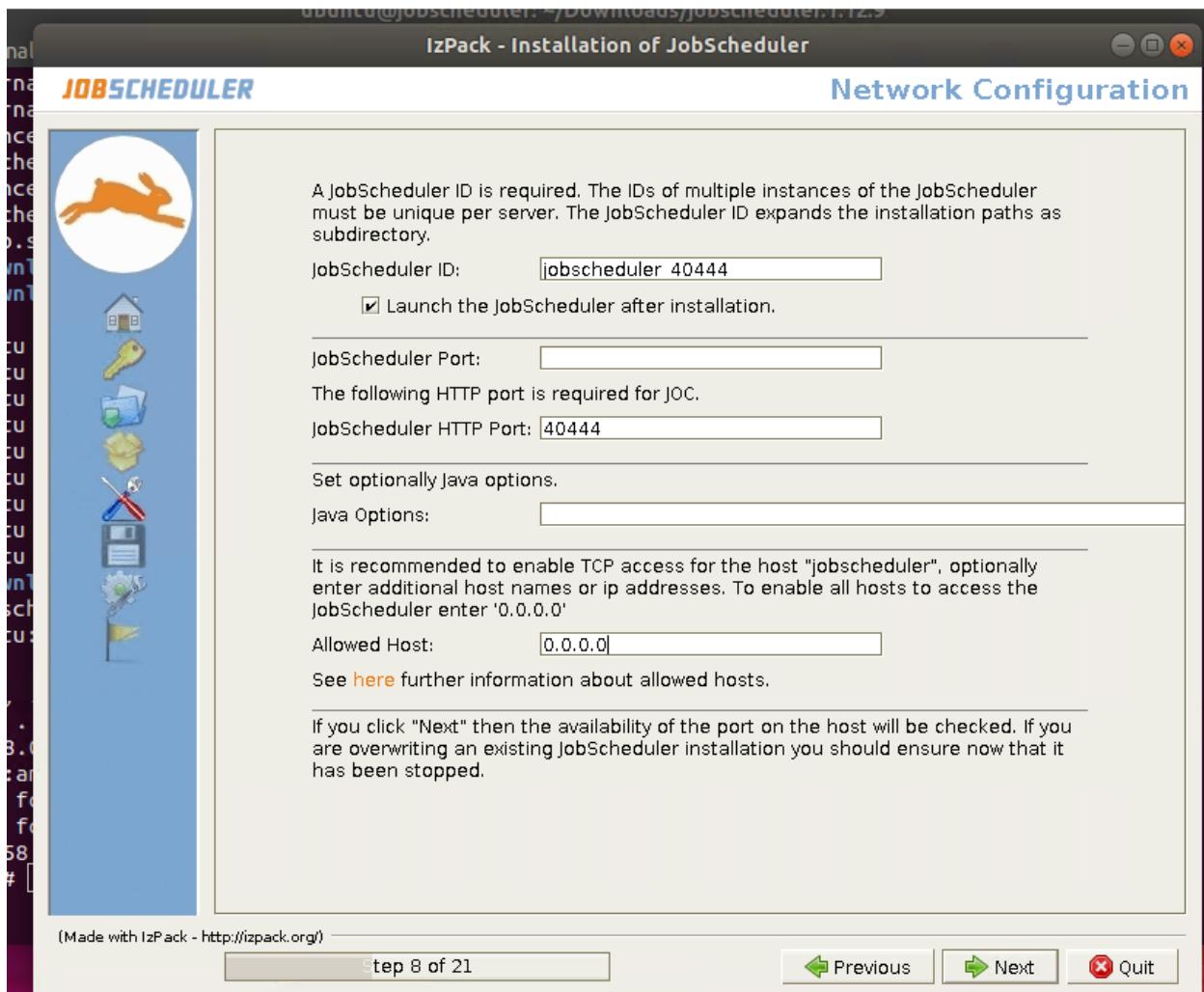
<https://kb.sos-berlin.com/download/attachments/8913332/jobscheduler-tutorials-1-hello-world.zip>

4. Open Terminal window back and proceed with:

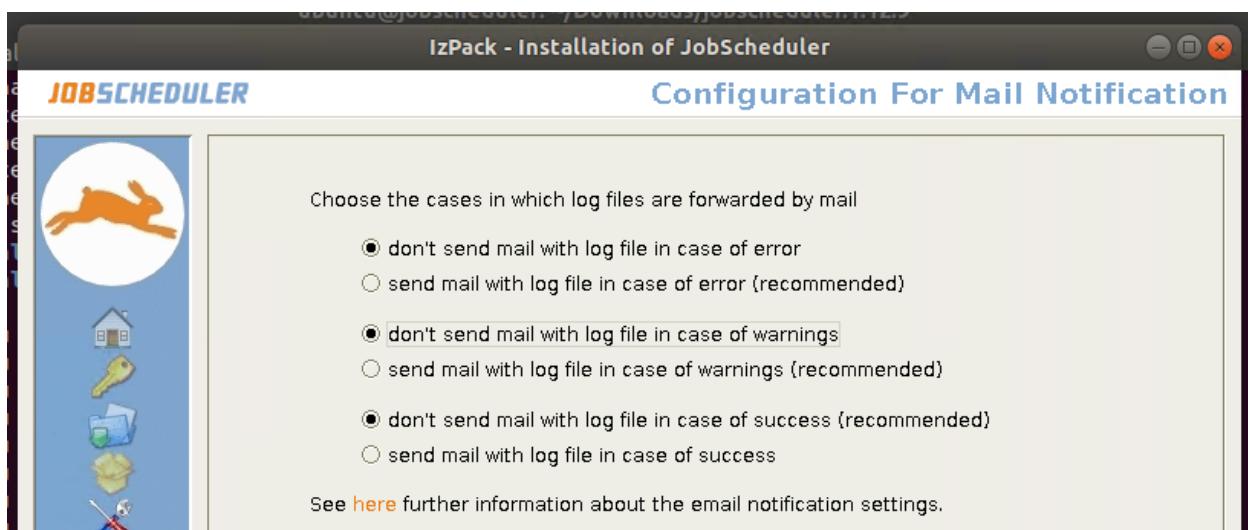
```
cd ~/Downloads/  
tar xvzf jobscheduler_linux-x64.1.12.9.tar.gz  
cd jobscheduler.1.12.9/  
. ./setup.sh  
> Enter SUDO password as requested (password of current Ubuntu user)
```

Accept all default selections thought all steps on installation wizard except changes noted below:

- On step 8: change value for "Allowed Host:" field to '0.0.0.0'



- Step 11: select all "don't ..." radio buttons;



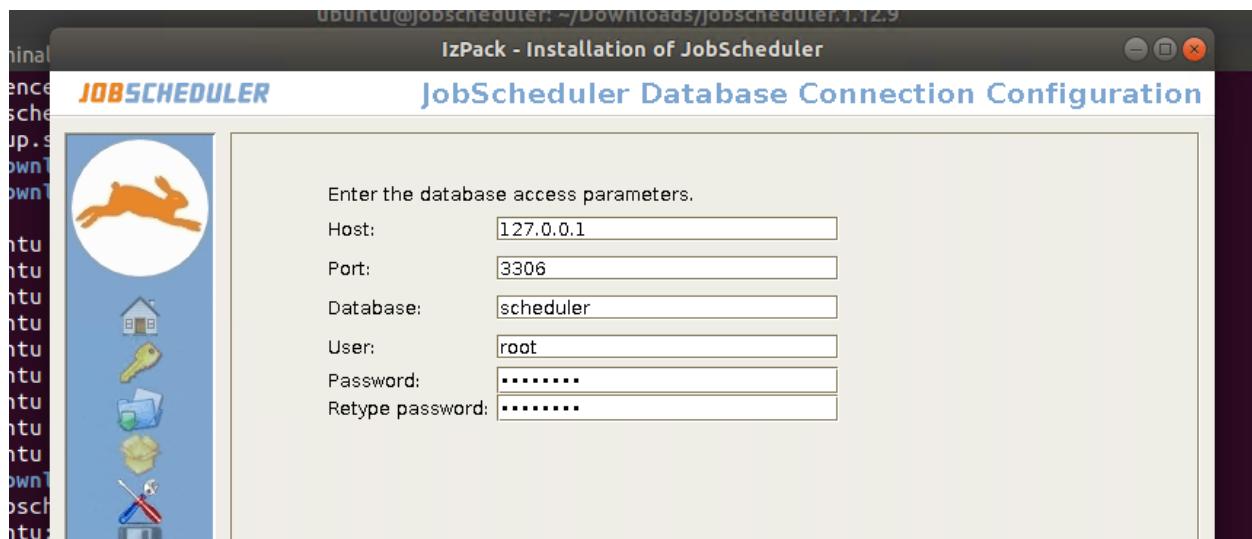
- Step 13: Change:

Value of "Host" filed to '127.0.0.1'

Value of "User" to 'root'

Value of "Password" to '**<password>**'

Value of "Retype password" to '**<password>**'



```
cd /etc/init.d/
sudo cp
/opt/sos-berlin.com/jobscheduler/<hostname>_40444/bin/jobscheduler.sh
jobscheduler
sudo update-rc.d jobscheduler defaults
```

JOC Cockpit part

```
cd ~/Downloads/
tar xzvf joc_linux.1.12.9.tar.gz
cd joc.1.12.9/
./setup.sh
```

Accept all default selections thought all steps on installation wizard except changes noted below:

- Step 6: Change:

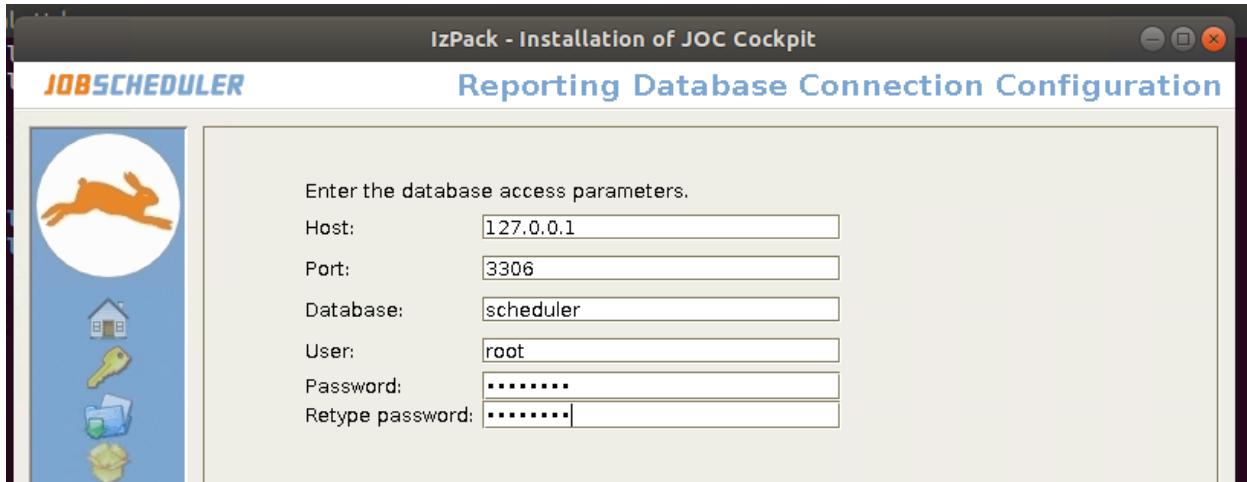
Value of "Host" filed to '127.0.0.1'

Value of Database to 'scheduler'

Value of "User" to 'root'

Value of "Password" to '<password>'

Value of "Retype password" to '<password>'



JOE part

```
sudo apt-get install libcanberra-gtk-module -y
```

Tutorial files part

```
cd ~/Downloads/
unzip jobscheduler-tutorials-1-hello-world.zip
mkdir
~/sos-berlin.com/jobscheduler/<hostname>_40444/config/live/tutorials
0
```

Reboot

Perform reboot

Access

Login into Ubuntu desktop.

To access JOC Cockpit open Firefox on address: 127.0.0.1:4446 with default username 'root' and password 'root'.

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To access JOE in run launch script in Terminal:

/opt/sos-berlin.com/jobscheduler/<hostname>_40444/bin/jobeditor.sh.

Contact details

Below you can find contacts to get in touch with me:



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