Ulteo Open Virtual Desktop v3.0

Ubuntu 10.04 (Lucid Lynx) support

Contents

The purpose of this document is to describe how the different pieces of Ulteo OVD are supported on Ubuntu 10.04 (Lucid Lynx) system.

1 Prerequisites: Ubuntu 10.04 (Lucid Lynx)

Ubuntu 10.04 (Lucid Lynx) is the latest LTS version of Ubuntu. There are several editions: desktop/server, 32/64 bits. This documentation has been done for the server edition (32/64 bits) but it should also work with the desktop edition. The Ubuntu operating system can be downloaded here.

1.1 System requirements

- For a Session Manager:

    - Evaluations/POCs: Minimum prerequisites are 1 CPU core and 512MB RAM
    - Production environments: Ulteo recommends a minimum of 2GB RAM and 2 CPU cores

- For an Application Server (Subsystem):

    - Evaluations/POCs: Minimum prerequisites are 1 CPU core and 1GB RAM
    - Production environments: Ulteo recommends a minimum of 4GB RAM and 2 CPU cores

- For an WebClient:

    - Evaluations/POCs: Minimum prerequisites are 1 CPU core and 512MB RAM
    - Production envrionments: Ulteo recommends 1GB RAM whenever possible or more

- For using the same machine to host the Session Manager, the Web Client and the Linux Application Server:

    - Evaluations/POCs: Minimum prerequisites are 1 CPU core and 1GB RAM
    - Production environments: Ulteo does not recommends to use this installation method for production environments

1.2 sudo

On Ubuntu systems, we are not using the *super user* (root) to log in and install packages. It is recomended to use **sudo**.

So there are two alternatives: either you think about adding sudo before each command you launch or you log in as root

To log in as root:

```
$ sudo -s
```

> ⚠️ In this document, we are using *sm.ulteo.com* for the Session Manager address, *aps.ulteo.com* for the Application Server and *web.ulteo.com* for the Web Client.
> You need to set those names according to your own domain name.

2   Repository

Ubuntu 10.04 (Lucid Lynx) is a Debian-based system which uses the same packaging system and tools: apt-get. So you need to have an internet connection on your Ubuntu 10.04 (Lucid Lynx) system and add an Ulteo Debian repository to your system.

2.1   Online method

The following method describe the repository process when your servers can access to Internet. If not, please read the offline method.

- Edit the */etc/apt/sources.list.d/ulteo-ovd.list* file and add these lines:

```
deb http://archive.ulteo.com/ovd/3.0/ubuntu lucid main
```

2.2   Offline Method

> ⚠ The Ulteo OVD offline installation requires that the Ubuntu 10.04 (Lucid Lynx) DVD is registered on the system as a packages repository in order to match package dependecies.
> If the system is not set to get packages from the DVD, Ulteo dependencies like Apache, for instance, won't be installed and the Ulteo solution will not work.

- Get this *ovd-3.0-ubuntu-lucid.tar.gz* archive from the Ulteo website or from the Ulteo OVD DVD and copy it in the */root* of your machine.

- Uncompress the archive:

```
# tar xzf ovd-3.0-ubuntu-lucid.tar.gz
```

- Edit the */etc/apt/sources.list.d/ulteo-ovd-offline.list* file and add these lines:

```
deb file:///root/ovd-3.0-ubuntu-lucid lucid main
```

2.3   Finish with any method

- Update the package database:

```
# apt-get update
```

> 💡 GPG errors given by the previous command will be fixed in the next installation steps. They won't prevent the installation to succeed.

- Install the keyring package to validate the repository using gpg:

```
# apt-get install ulteo-keyring
# apt-get update
```

3 Session Manager installation and configuration

The Session Manager is a LAMP (Linux Apache MySQL PHP) system and can be used on an exising LAMP server.

3.1 Installation of MySQL

The Session Manager needs access to a MySQL database. We advise you to setup the MySQL server on the same machine as the Session Manager to minimize access time.

- Install the *mysql-server* package:

```
# apt-get install mysql-server
```

A password for `root` will be asked.

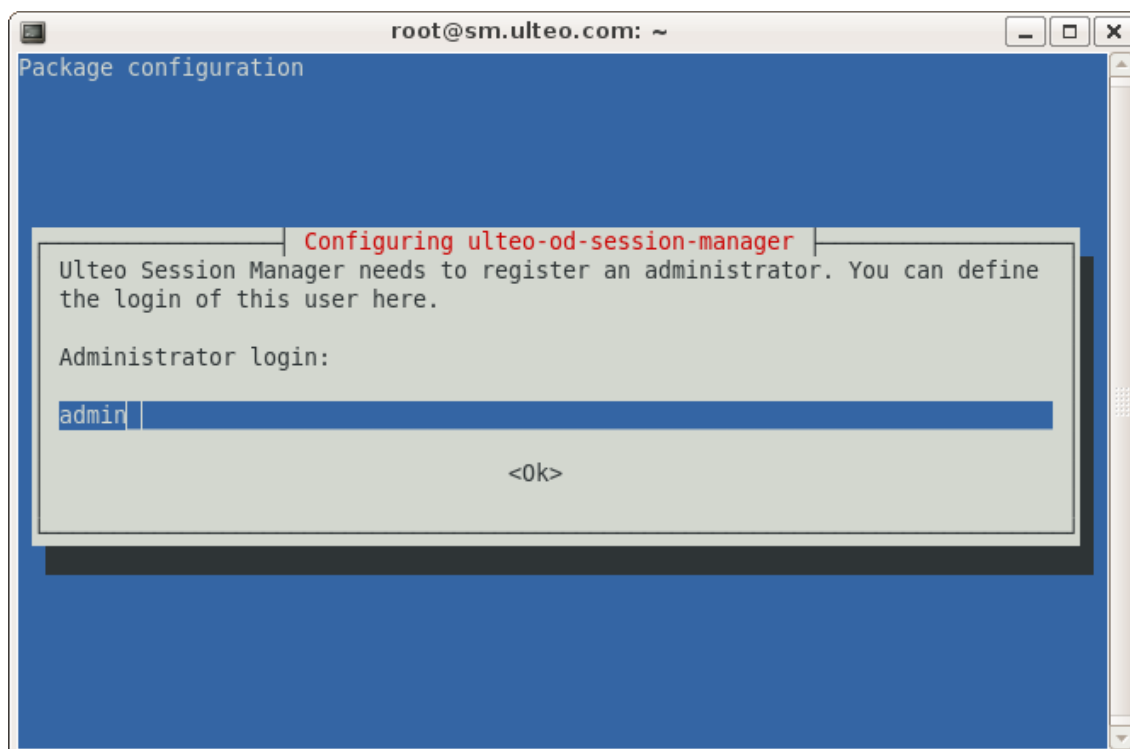- Now log in mysql and create a database:

```
# mysql -u root -p -e 'create database ovd'
```
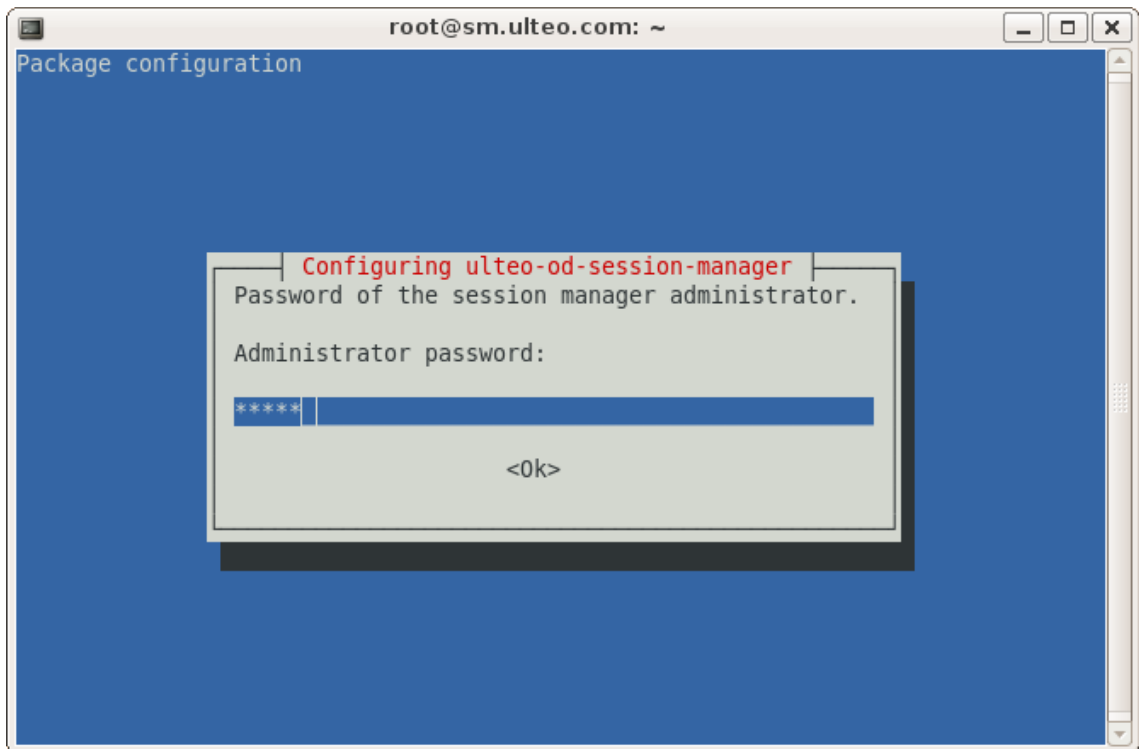
3.2 Package installation

- Install the *ulteo-ovd-session-manager* package:
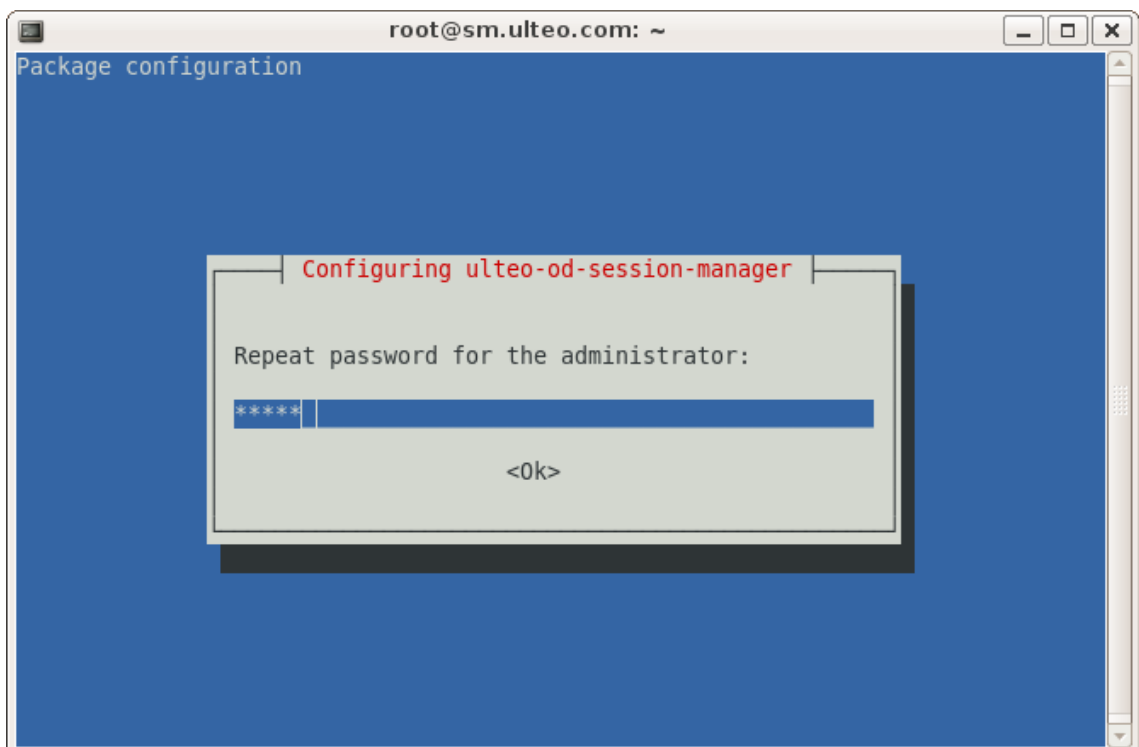
```
# apt-get install ulteo-ovd-session-manager
```

- The installer asks for an admin login

- And a password:

```
root@sm.ulteo.com: ~                           _  □  ✕
Package configuration

          ┌───────┤ Configuring ulteo-od-session-manager ├───────┐
          │ Password of the session manager administrator.        │
          │                                                       │
          │ Administrator password:                               │
          │                                                       │
          │ *****                                                 │
          │                                                       │
          │                        <Ok>                           │
          │                                                       │
          └───────────────────────────────────────────────────────┘
```

- which has to be confirmed:

```
root@sm.ulteo.com: ~                           _  □  ✕
Package configuration

          ┌───────┤ Configuring ulteo-od-session-manager ├───────┐
          │                                                       │
          │ Repeat password for the administrator:                │
          │                                                       │
          │ *****                                                 │
          │                                                       │
          │                        <Ok>                           │
          │                                                       │
          └───────────────────────────────────────────────────────┘
```

- According to the *Archictecture* documentation, a **Susbsystem** archive can be installed on the SM to simplify the Application Servers' deployements.
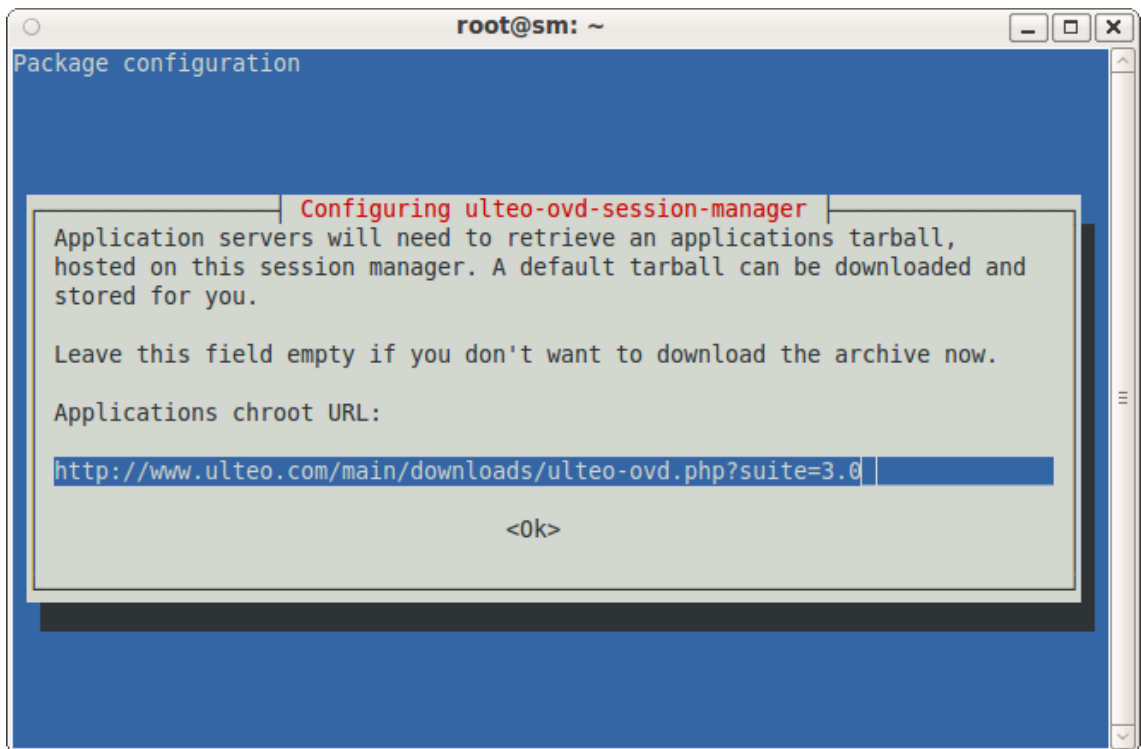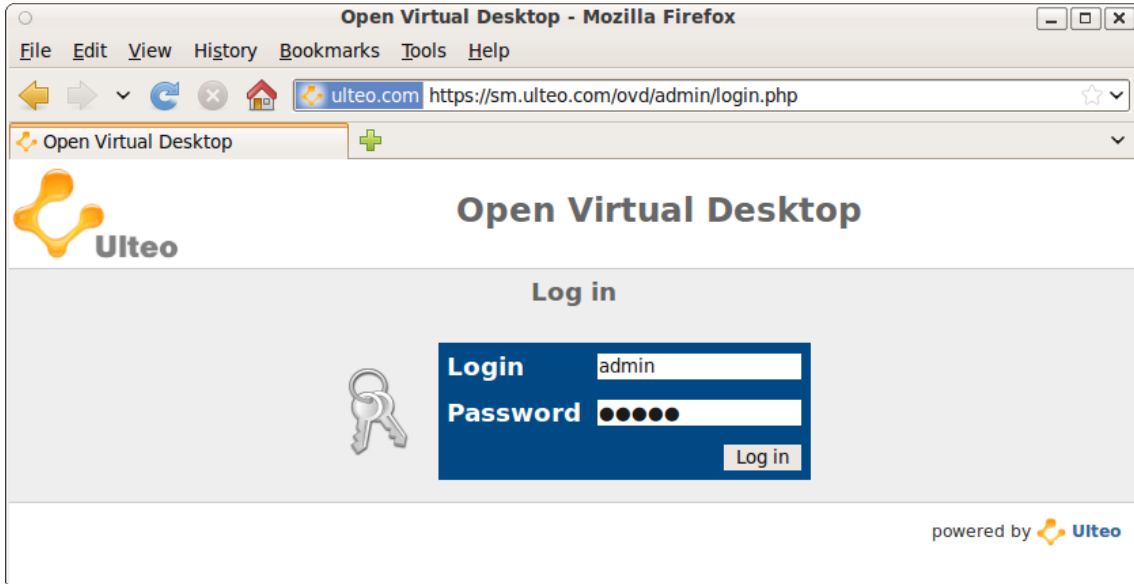
The server is now installed but not configured yet. You have to open `http://sm.ulteo.com/ovd/admin` with a web browser. It should display this page:

3.3 Configuration

The first step is to go to http://sm.ulteo.com/ovd/admin and authenticate yourself with the login and password you provided during installation.
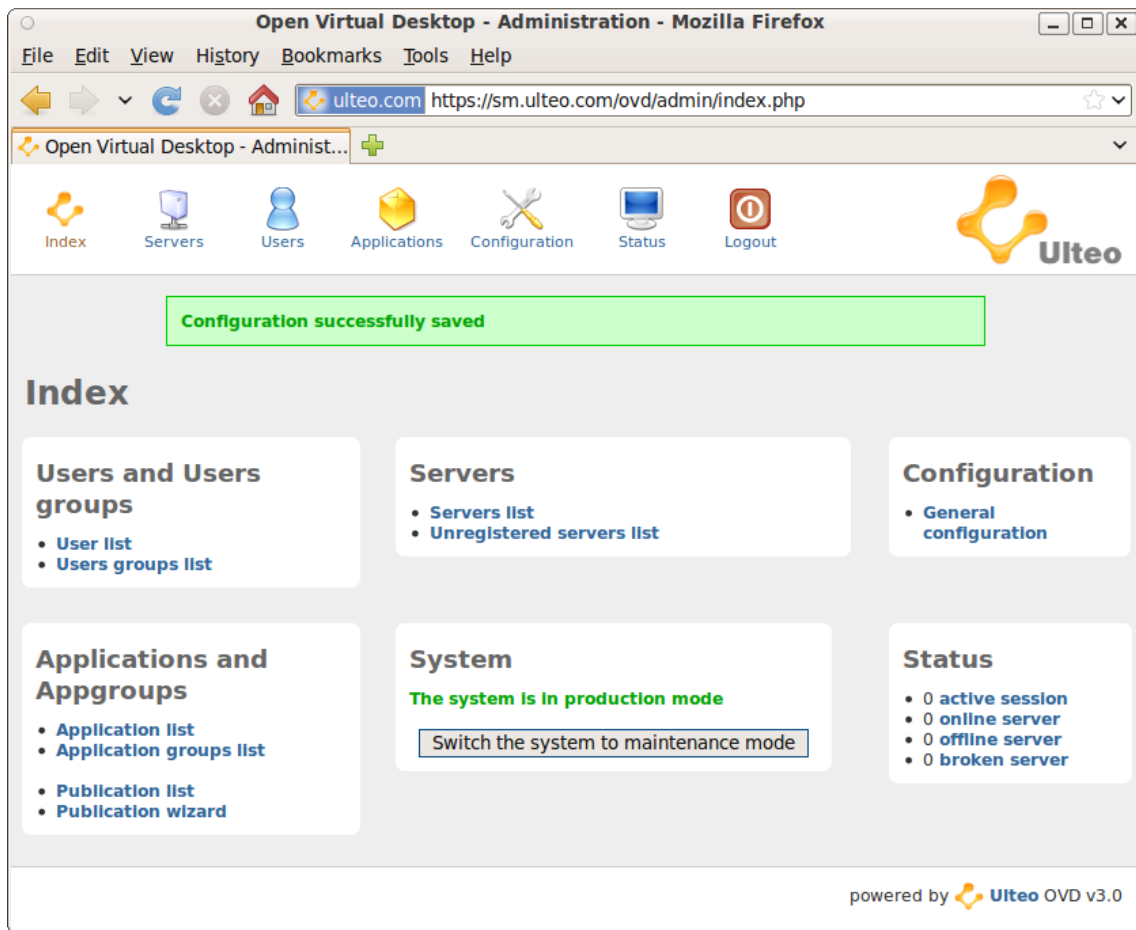

For the first time you log in, the system detects that it is not well configured so you are redirected to a basic setup page which will save a default configuration.

You have to set the MySQL configuration. For instance, if you install MySQL on the same host as described previously, here is the configuration:
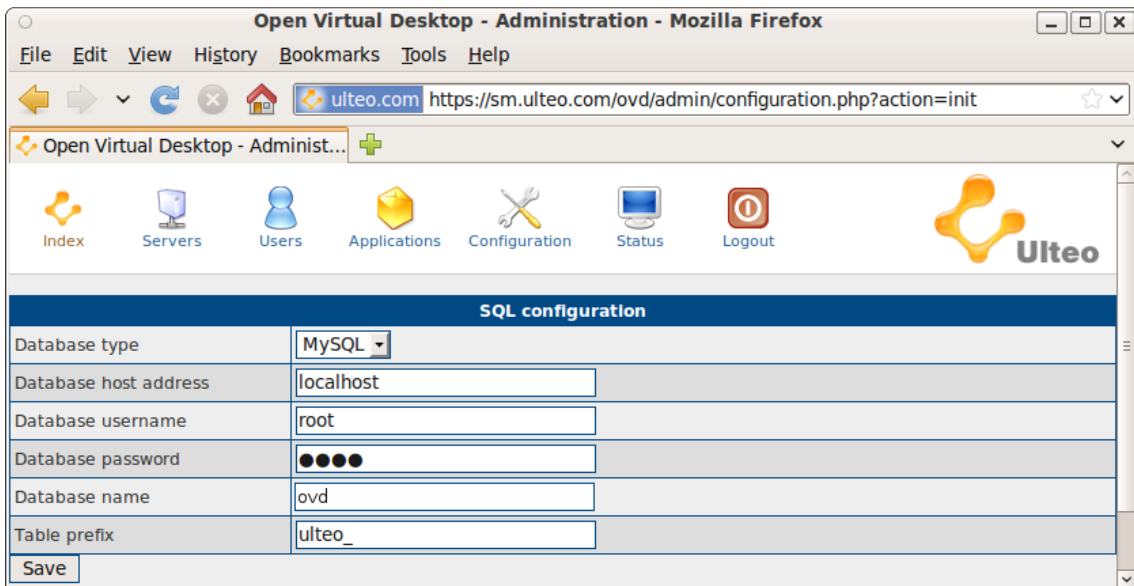
Then, you should be redirected to the main page:

The Session Manager is now installed. Please read other documentations to join servers or start sessions.

3.4   Setup the subsystem archive

If you didn't specify an URL at the last question, you have to copy a subsystem archive into **/var/cache/ulteo/sessionmanager/base.tar.gz**.

Get this *base.tar.gz* archive from the Ulteo website or from the Ulteo OVD DVD and copy it in the */var/cache/ulteo/sessionmanager/* of your machine.

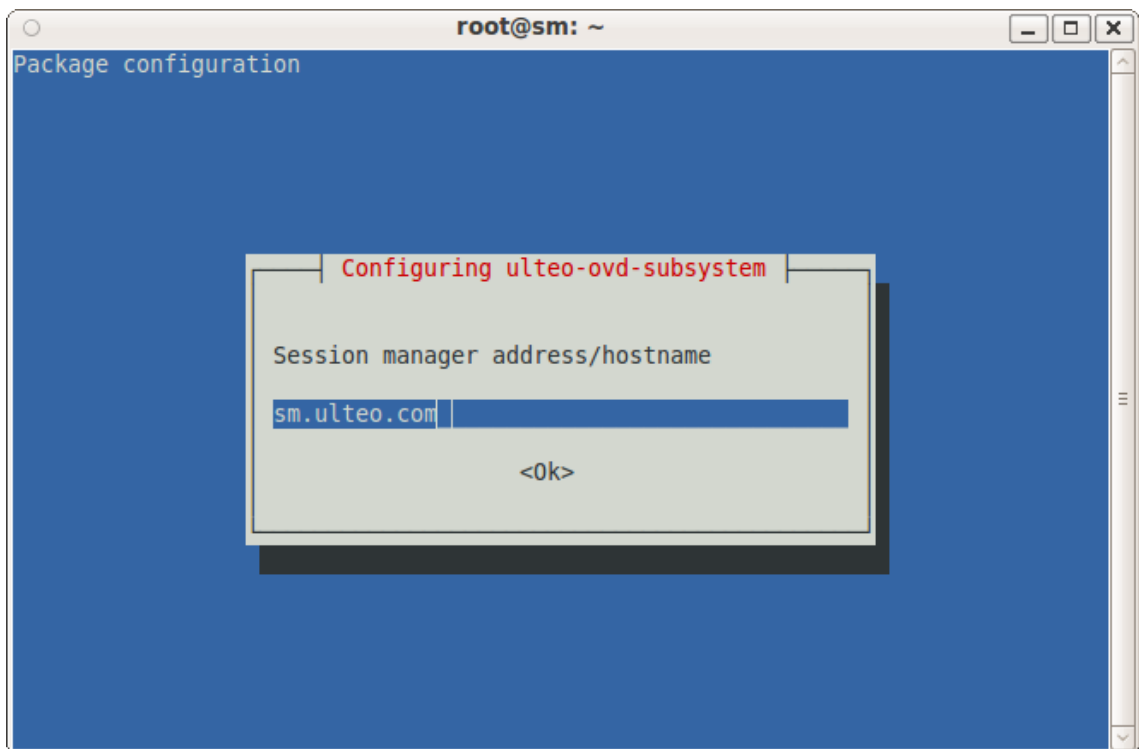# 4 Application Server and File Server installation (using Subsystem)

- Install the package *ulteo-ovd-subsystem*:

```
# apt-get install ulteo-ovd-subsystem
```

- The only question is about the host/IP address where the session manager can be accessed (we use sm.ulteo.com here for the example, but of course, you have to set your own domain name).

> ⚠ If you are going to install an Application Server on the same machine as your Session Manager, it is recommended to use **127.0.0.1** as host.

```
                           root@sm: ~
Package configuration

          ┌──────┤ Configuring ulteo-ovd-subsystem ├──────┐
          │                                                 │
          │  Session manager address/hostname               │
          │                                                 │
          │  sm.ulteo.com                                   │
          │                                                 │
          │                   <Ok>                          │
          │                                                 │
          └─────────────────────────────────────────────────┘
```
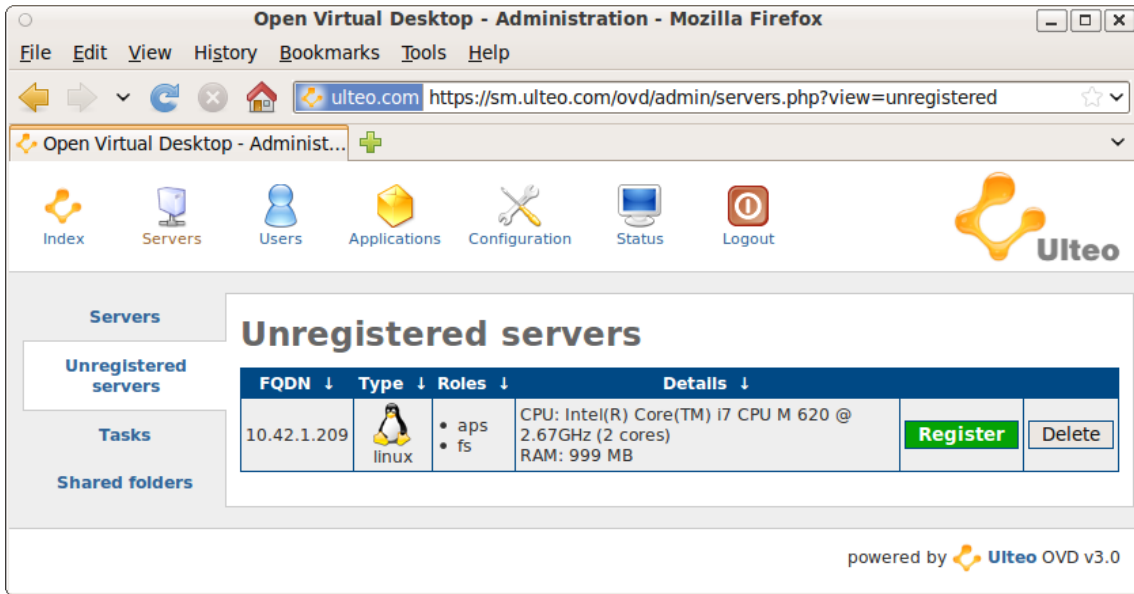
The configuration is now done. The system is going to donwload and uncompress the application system archive from the Session Manager your registered.

Once done, you just have to restart the service:

```
# /etc/init.d/ulteo-ovd-subsystem restart
```

Your server should appear in the **Unregistered server** page.

4.1 Set a redirection name

The server **redirection name** is optional. If all your machines are in the same network, you don't have to change it.

⚠ If you have installed your Application Server on the same machine as your Session Manager and you have followed our advices, you have set **127.0.0.1** as server name so you **must** define a redirection name.

The **redirection name** is used to launch sessions. When you launch a session, you are redirected to an Application Server using the redirection name as target host. In some cases the default redirection name is not valid. For instance, if you set up a private IP address and you want to connect to your Application Server from the internet.
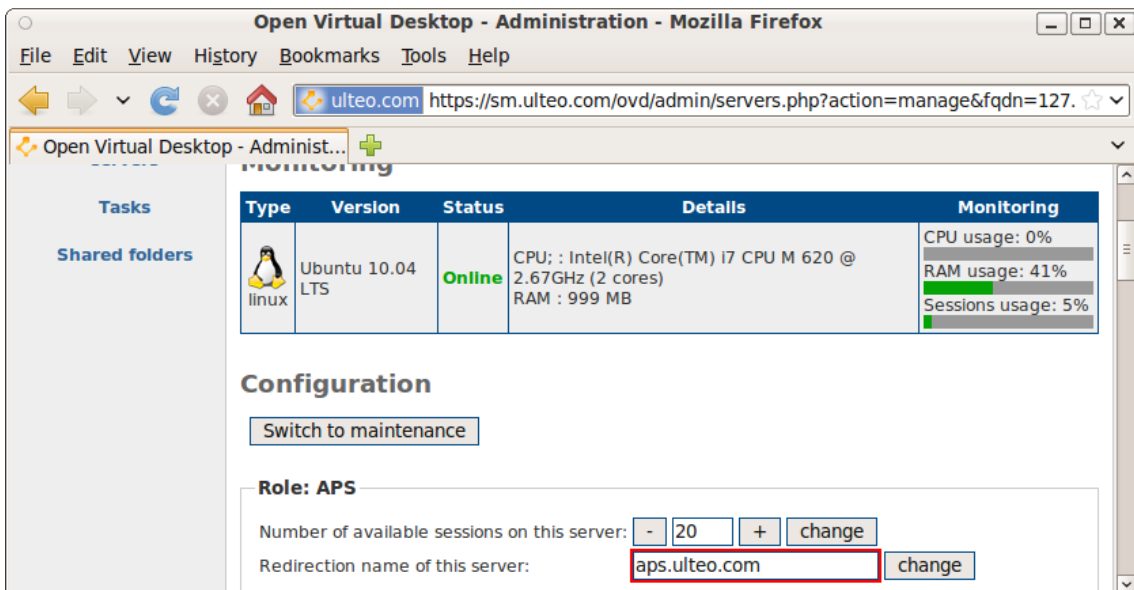
# 5 Web Client installation (web.ulteo.com)

The Ulteo OVD Web client is no longer installed with the Session Manager as it was on previous versions (version number < 3.0). So you have to install it manually on any server you want. Of course, it's possible to install it on the same machine as the Session Manager.

In this example, we are using *web.ulteo.com*

- Install the package *ulteo-ovd-web-client*:

```
# apt-get install ulteo-ovd-web-client
```

- The installer asks if you want to plug the Web Client with an existing Session Manager. It depends if you want to use this Web Client in a specific Ulteo OVD farm or if you want a generic web client.
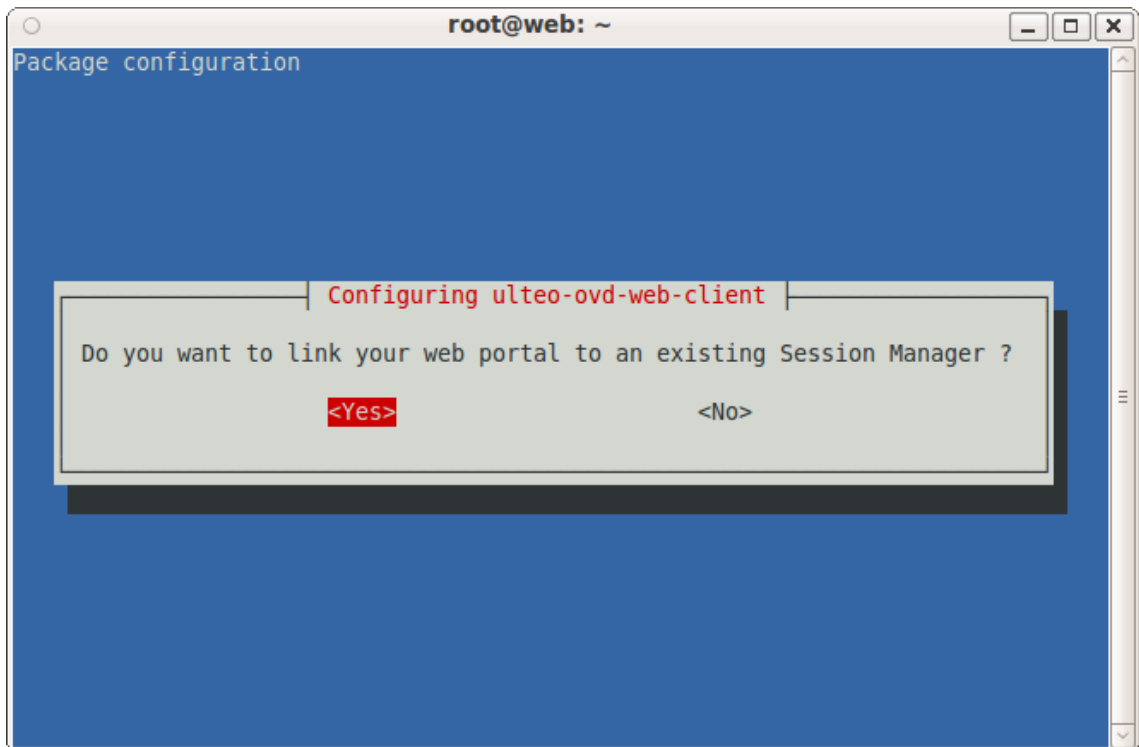
- If you answered yes at the previous question, you now have to provide the Session Manager an host/IP address. In our example: sm.ulteo.com.
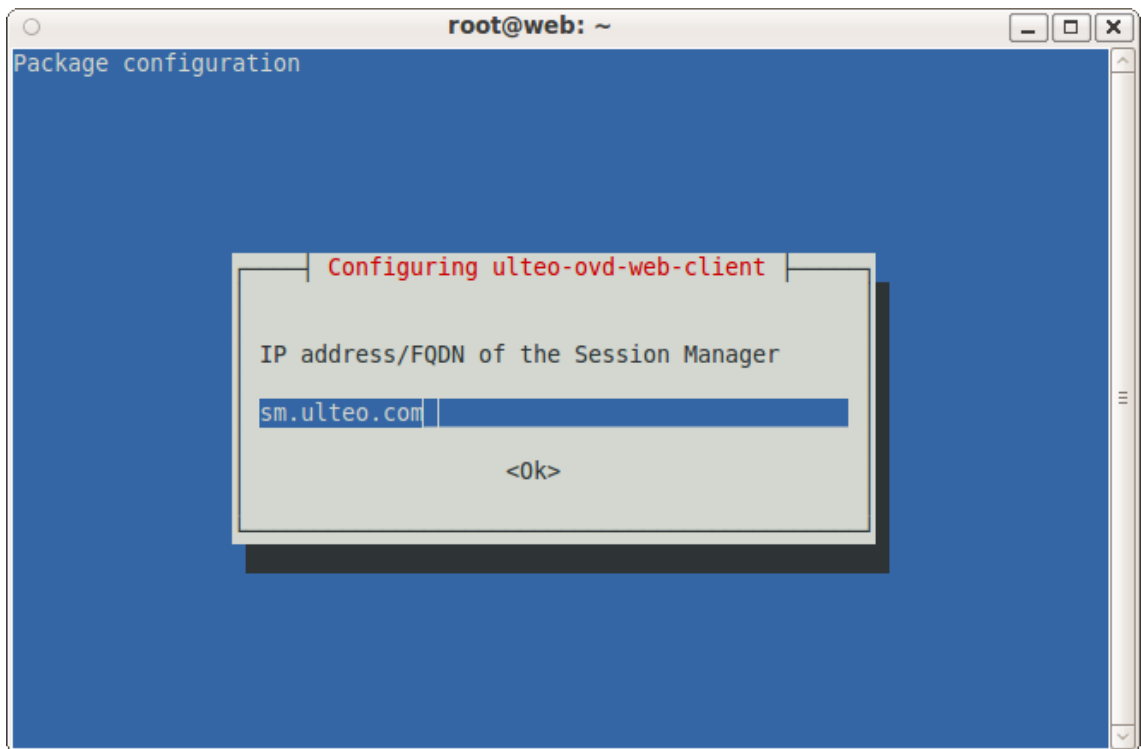
Using you web browser, go to http://web.ulteo.com/ovd/, you should see a login page:
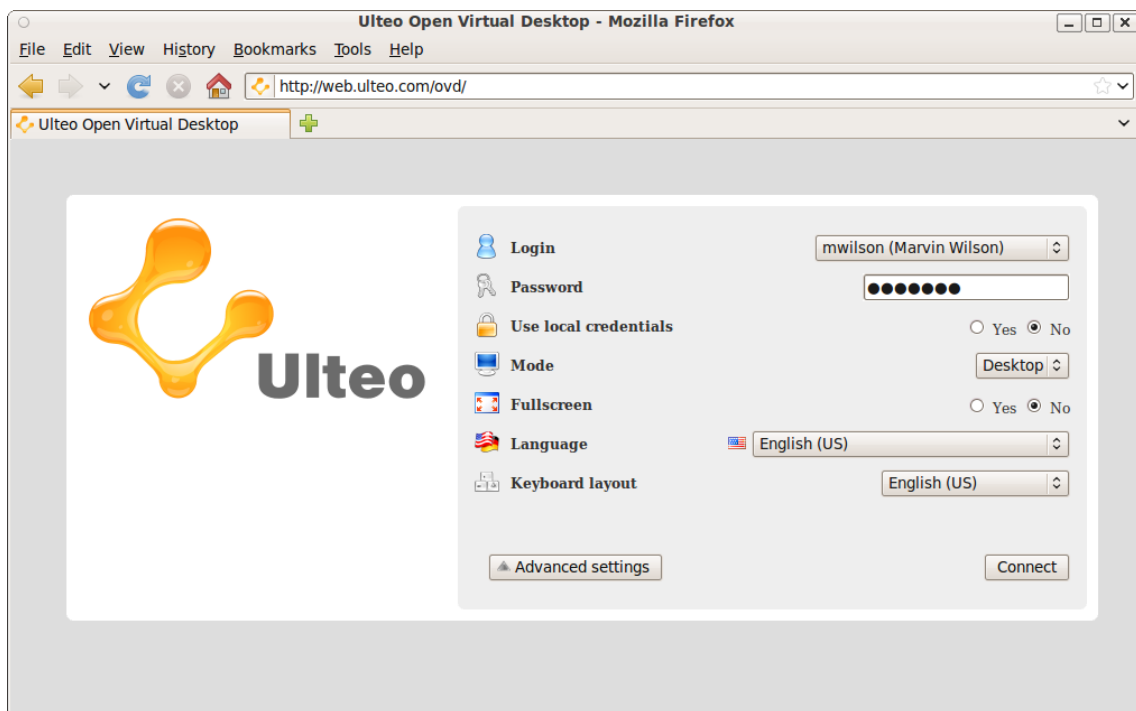
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For further informations, check our website www.ulteo.com.