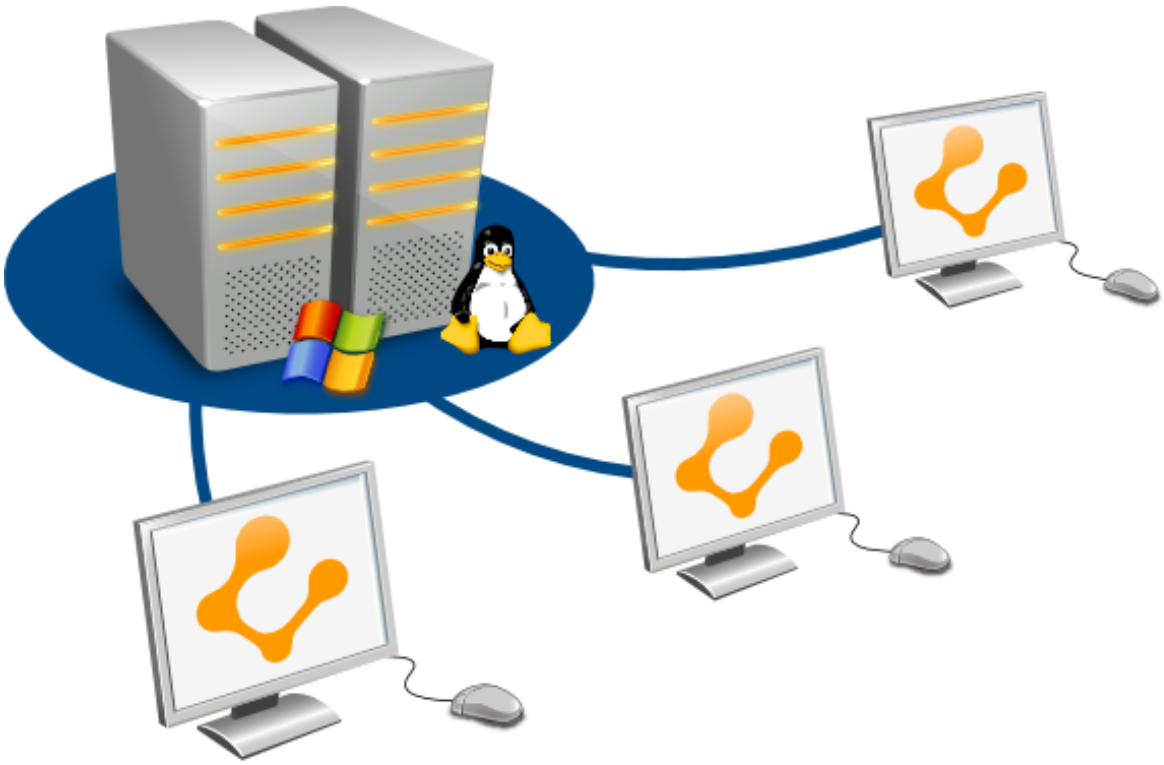
Ulteo Open Virtual Desktop

Installation



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1 Prerequisites

A minimal Open Virtual Desktop infrastructure requires one **Session Manager** and one **Application Server**.

- the Session Manager is a LAMP (Linux Apache MySQL PHP) system and could be used in an exising LAMP server.
- the Application Server is a server where the desktop and applications will be executed. It has to be a Ulteo OVD **dedicated server**.

IMPORTANT

In this document, we are using *sm.ulteo.com* for the Session Manager and *aps.ulteo.com* for Application Server.

You need to set that names according to your own domain names.

NOTE

It is possible to install both Application Server and Session Manager on the **same machine**.

The servers used by Ulteo OVD need to be installed with **Ubuntu 8.04 (Hardy Heron) Server for x86/32 bits** (it can be downloaded from this link).

All operations need to be done as *super user*.

- To log in as root:

```
$ sudo -s
```

2 Installation of MySQL

If you don't have any available MySQL database, you have to install MySQL on your Session Manager.

Install the *mysql-server* package:

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

A password for `root` will be asked.

3 Session Manager (sm.ulteo.com)

The Session Manager is the main server for your *Ulteo Open Virtual Desktop infrastructure*. It will manage all your application servers through an administration web interface.

3.1 Installation

- Add the Ulteo repository to the repository list:

```
# echo "deb http://archive.ulteo.com/ulteo/ovd 2.5 main" >> /etc/apt/sources ↩
    .list
# apt-get update
```

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

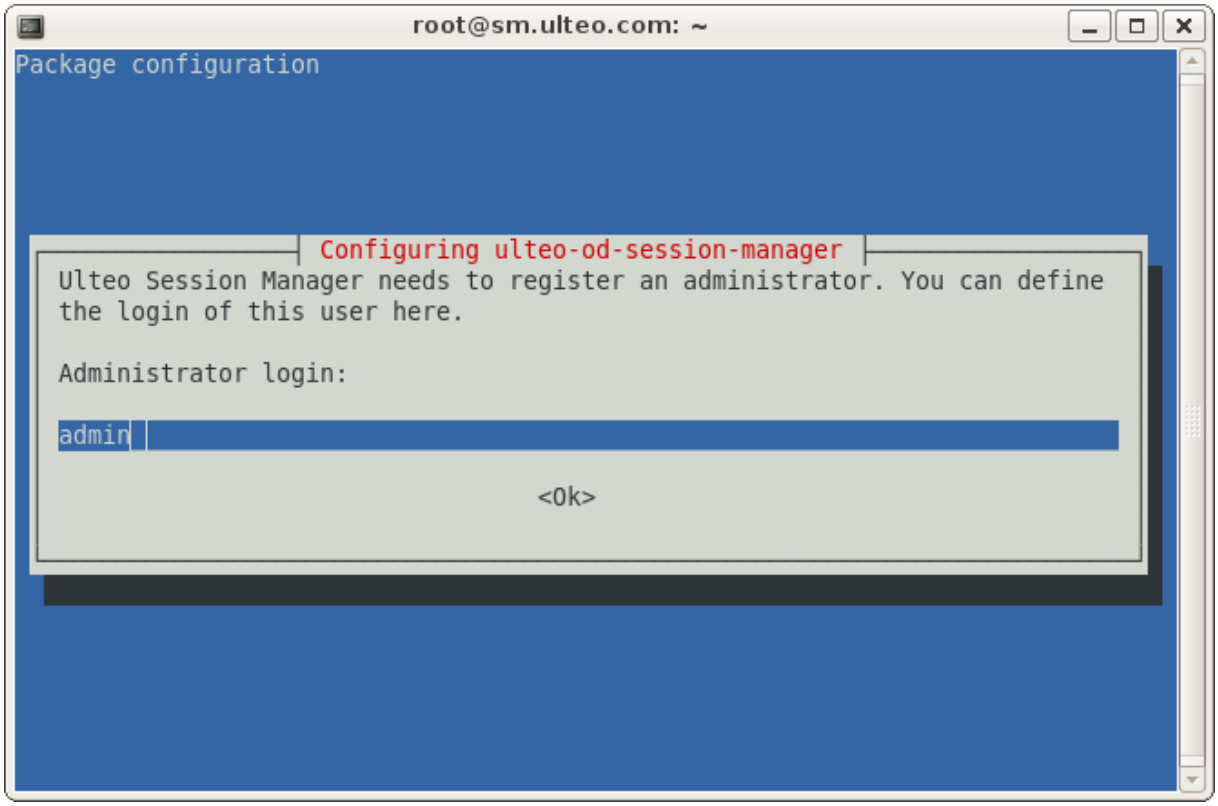
- Install the keyring package to validate the repository using gpg:

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

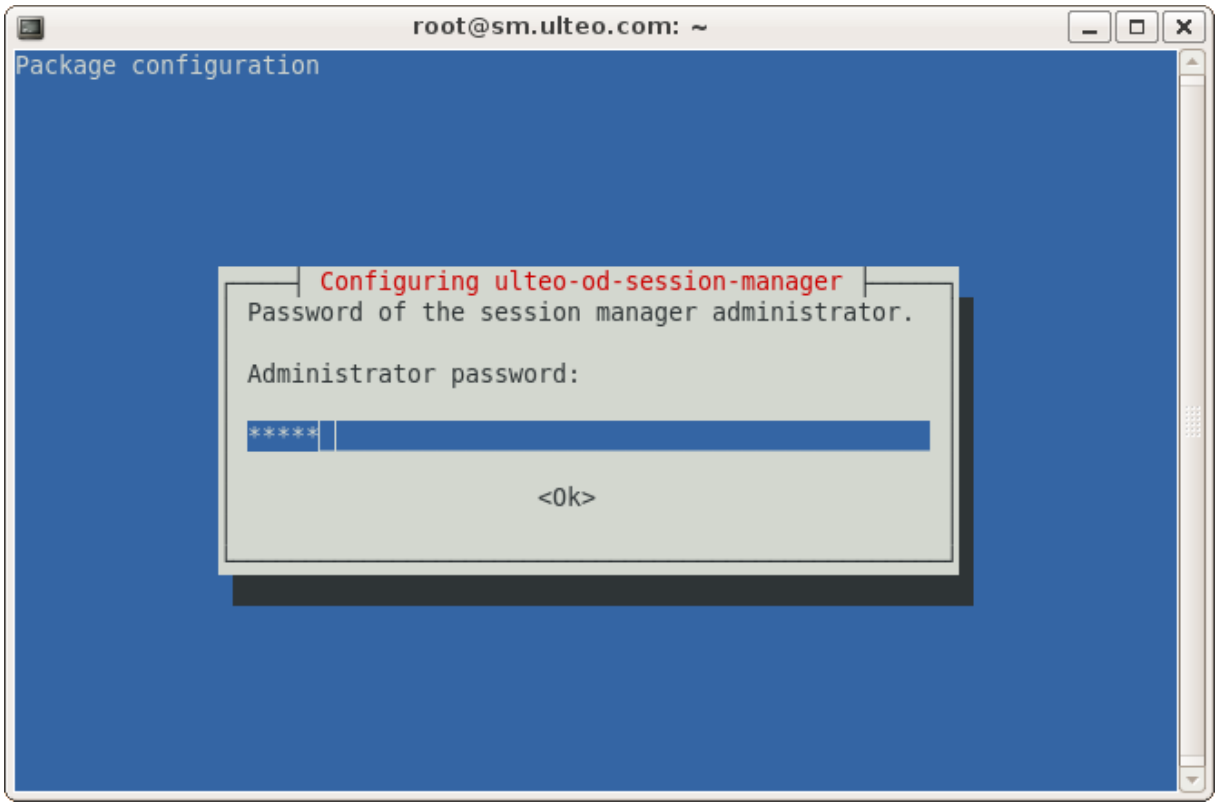
- Install the *ulteo-ovd-session-manager* package:

```
# apt-get install ulteo-ovd-session-manager
```

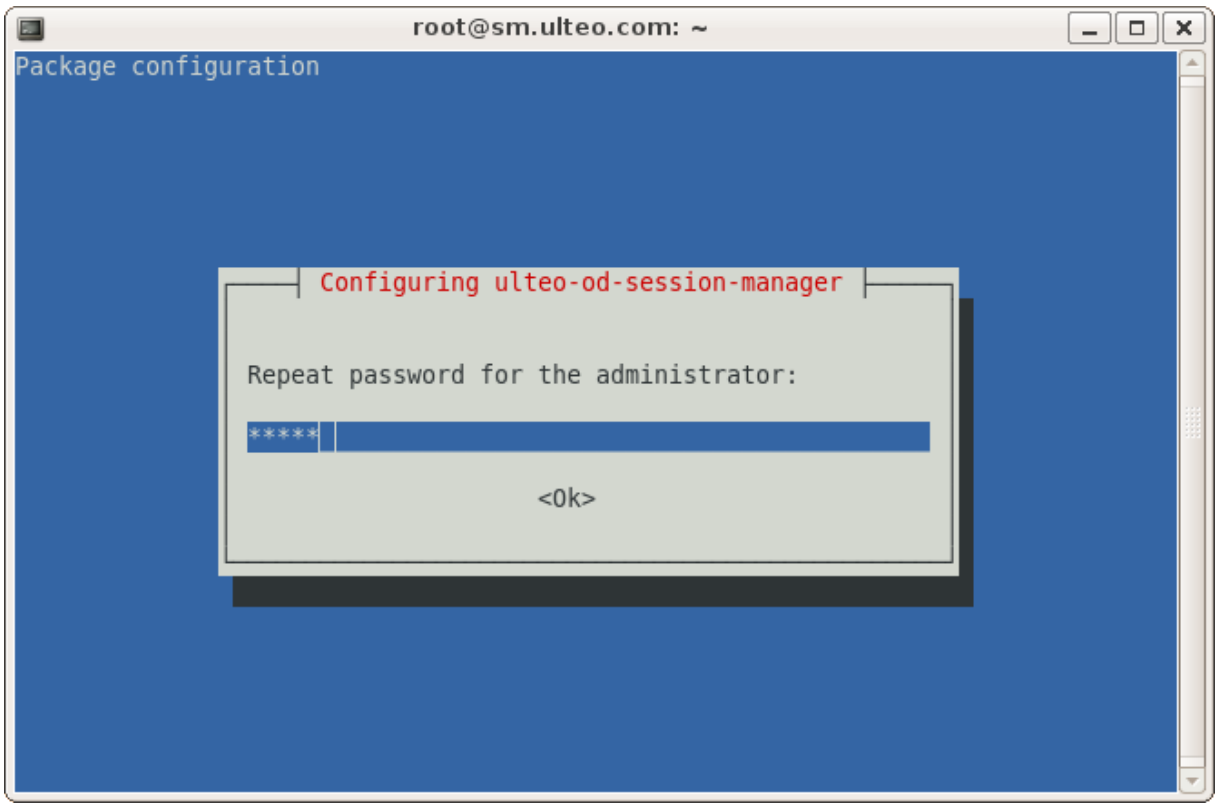
- The installer asks for an admin login



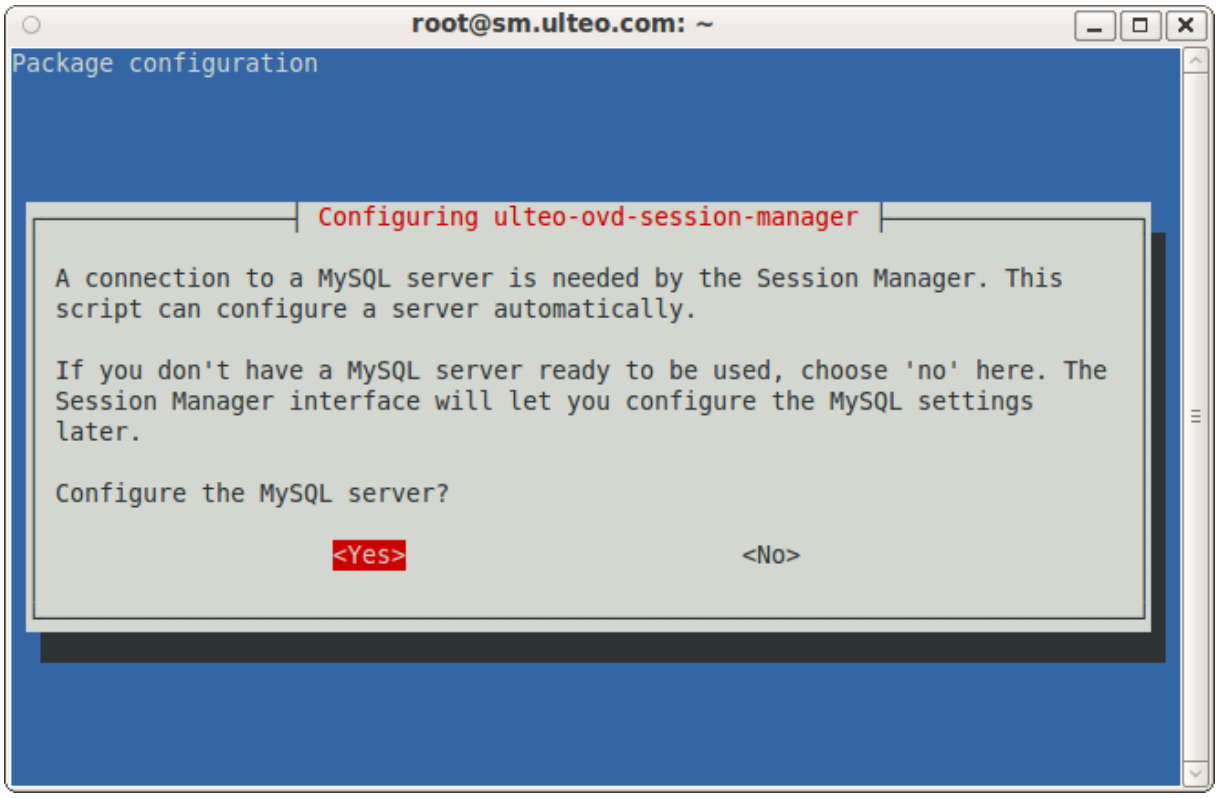
- And a password:



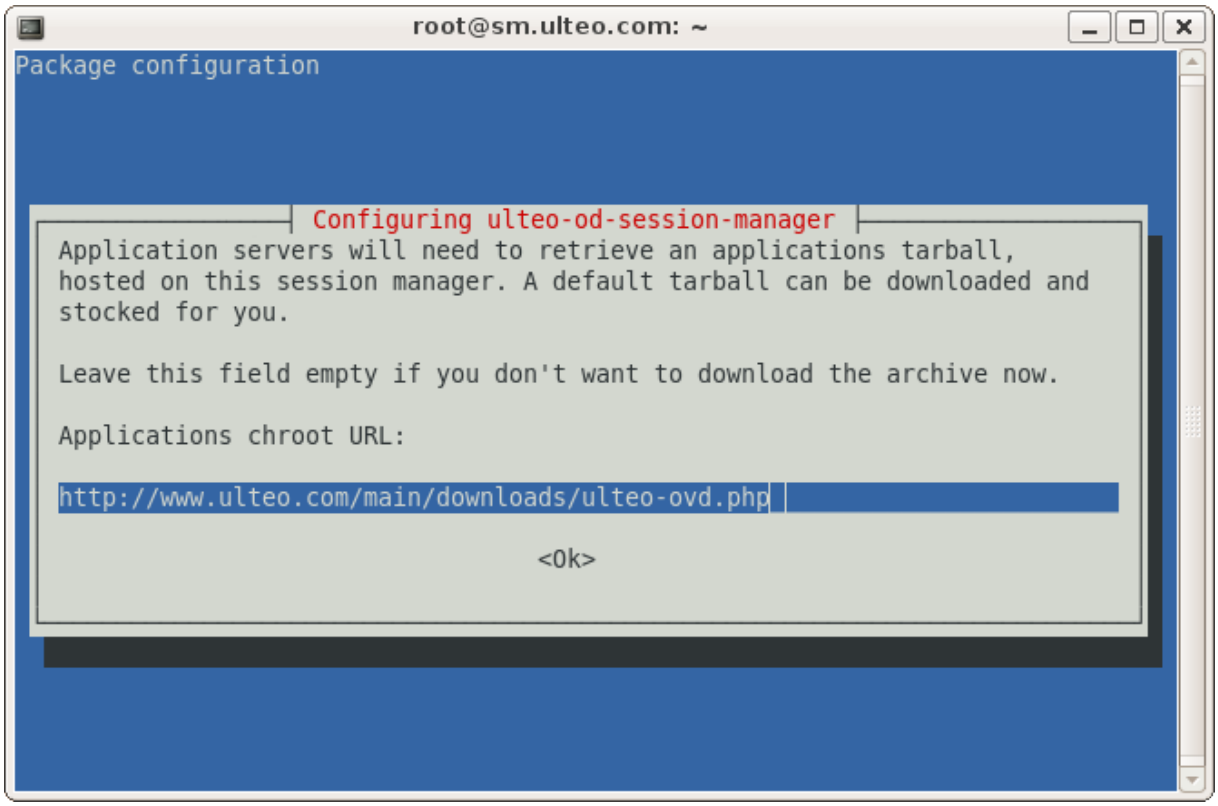
- which has to be confirmed:



- Next question is about MySQL creation. Will aptitude create user and database for OVD on MySQL ?

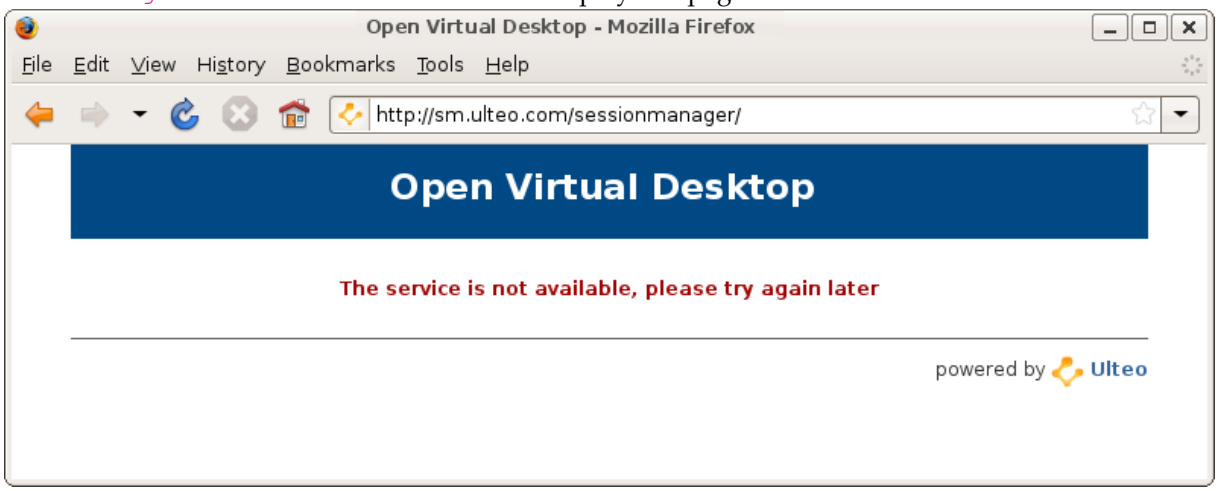


- Application servers are using an application system that will be the same for all your application servers:



If you don't have access to Internet, keep this field empty, we'll see later how to install it by hand.

The server is now installed but not configured yet. You have to open http://sm.ulteo.com/sessionmanager with a web browser.It should display this page:



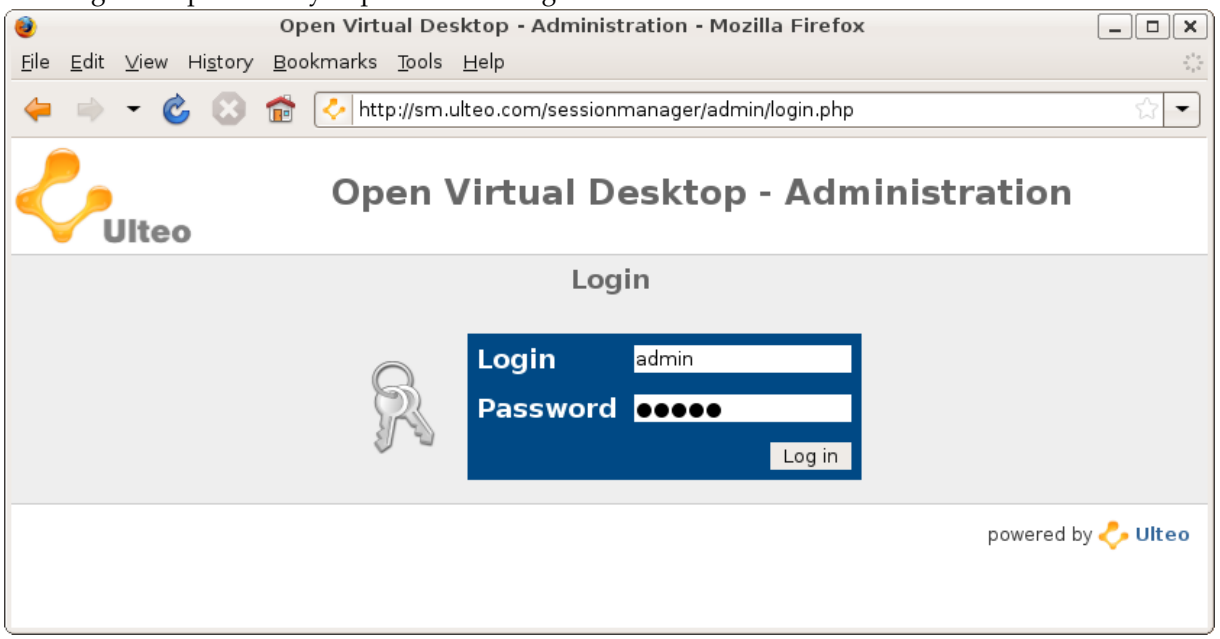
3.1.1 Setup the application system archive

If you didn't specify an URL at the last question, you have to copy an application system archive into **/usr/share/ulteo/sessionmanager/base.tar.gz**.

For instance, you can download an archive from http://www.ulteo.com/main/downloads/ulteo-ovd.php?suite=2.5 from another computer which have access to Internet and copy it on a usb stick. Then, you have to copy it on the Session Manager at */usr/share/ulteo/sessionmanager/base.tar.gz*

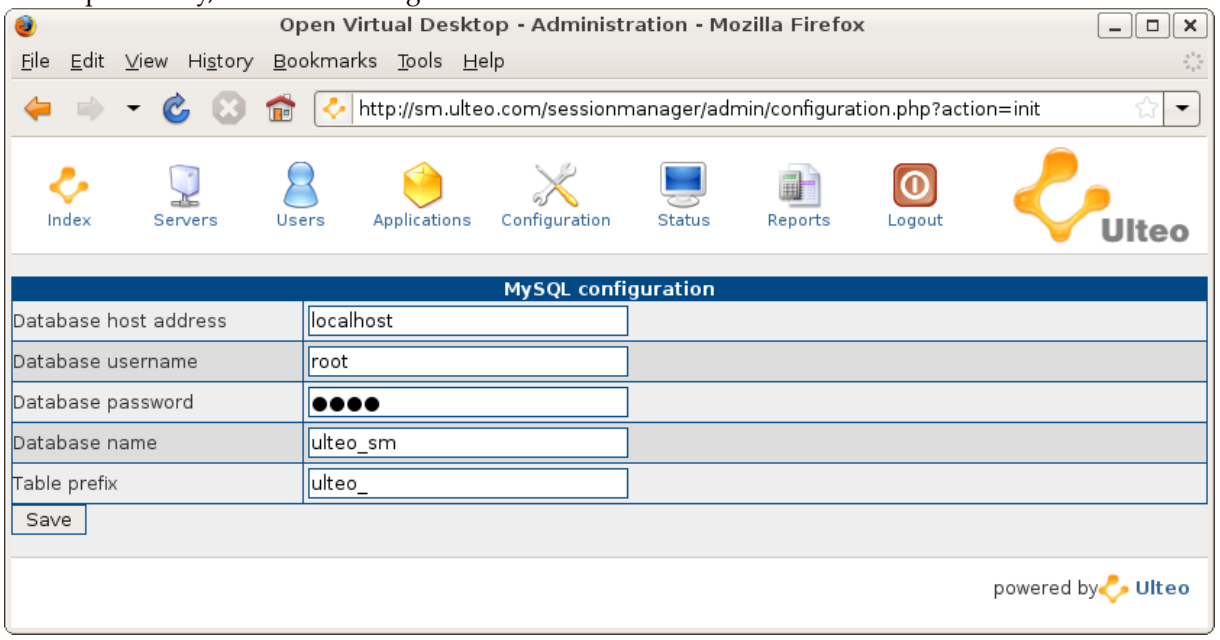
3.2 Configuration

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

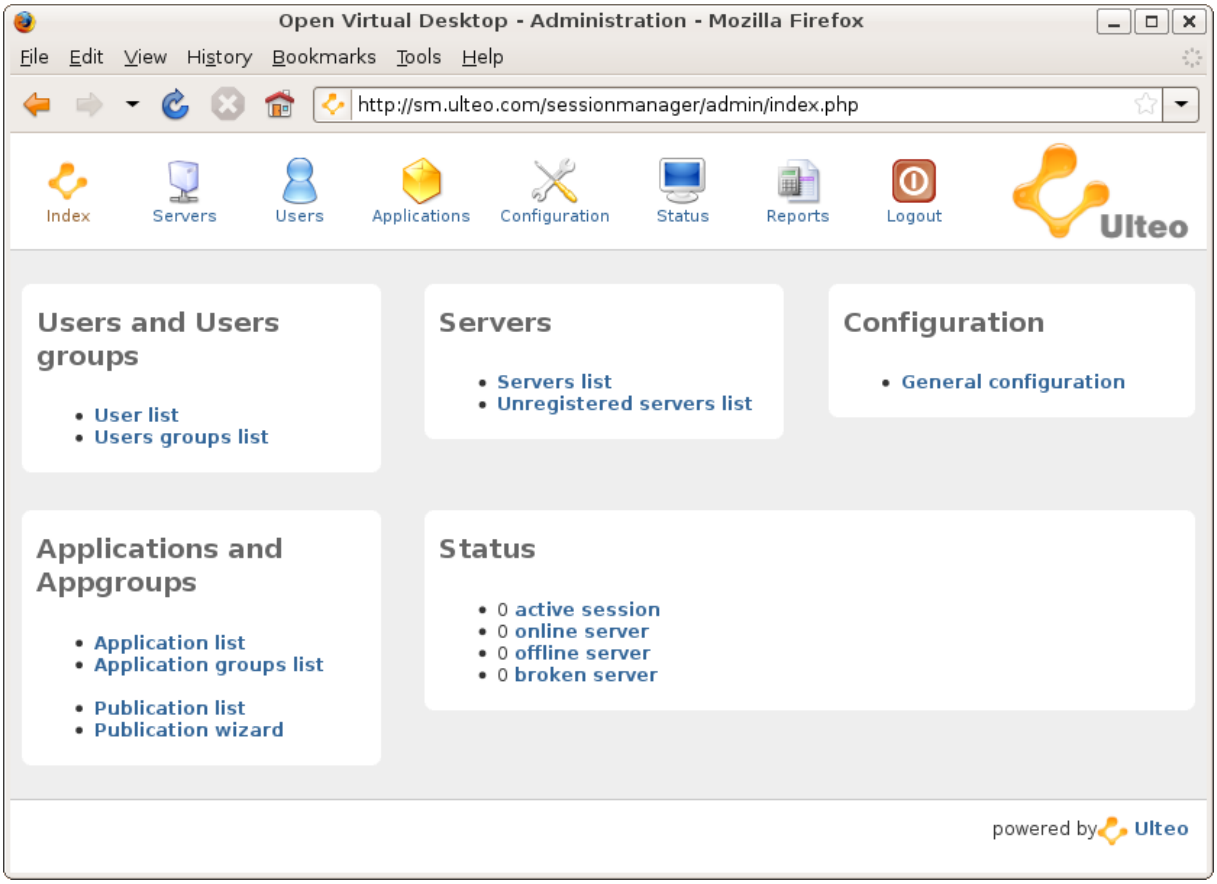


For the first time you login, the system detect that is not well configured so you are redirected to a basic setup page which will save a default configuration.

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 has no application server plugged yet. You now have to install one or more Application Servers.

4 Application Server installation (aps.ulteo.com)

- If you haven't done it yet for the Session Manager, add the Ulteo repositoriy to the Ubuntu repository list:

```
# echo "deb http://archive.ulteo.com/ulteo/ovd 2.5 main" >> /etc/apt/sources ↩
    .list
# apt-get update
```

- If you haven't done it yet for the Session Manager, install the keyring package to validate the repository using gpg:

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

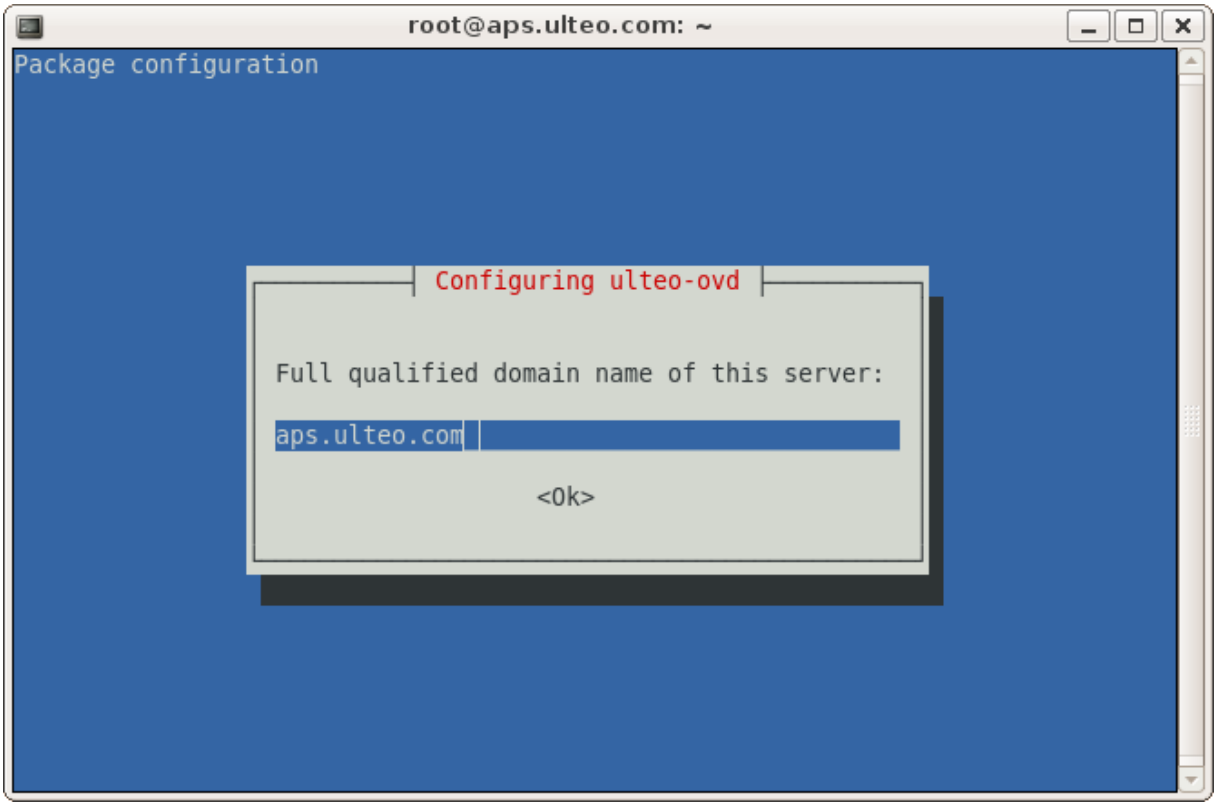
> NOTE
>
> GPG errors given by the previous command will be fixed in the next installation steps. They won't prevent the installation to be successful.

- Install the package *ulteo-ovd-application-server*:

```
# apt-get install ulteo-ovd-application-server
```

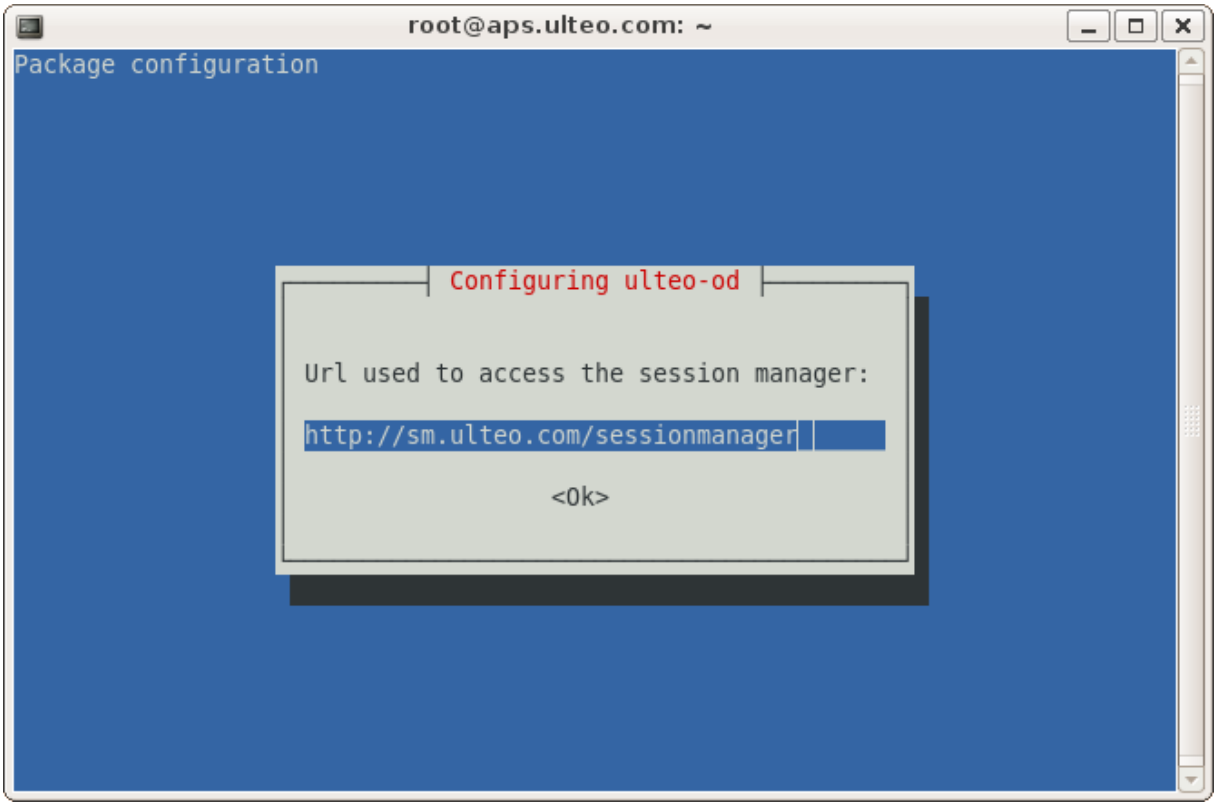
- The first question is about the FQDN (Fully Qualified Domain Name) hostname of the machine you are using as an Application Server. This *FQDN* is used by the Session Manager server to manage Application Servers. If the FQDN is not defined well, this Application Server will never register on the Main server. Here we are using *aps.ulteo.com*.

> IMPORTANT
>
>
>
> If you are going to install an Application server on the same machine as your Session Manager, it's adviced to use **127.0.0.1** as FQDN.


root@aps.ulteo.com: ~
Package configuration
Configuring ulteo-ovd
Full qualified domain name of this server:
aps.ulteo.com
<Ok>

- The next question is about the URL/path where the session manager can be accessed. Provide the URL that was used previously (we use `http://sm.ulteo.com/sessionmanager` here for the example, but of course, you have to set your own domain name).

> IMPORTANT
>
> If you are going to install an Application server on the same machine as your Session Manager, it's adviced to use **`http://127.0.0.1/sessionmanager`** as URL.



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:

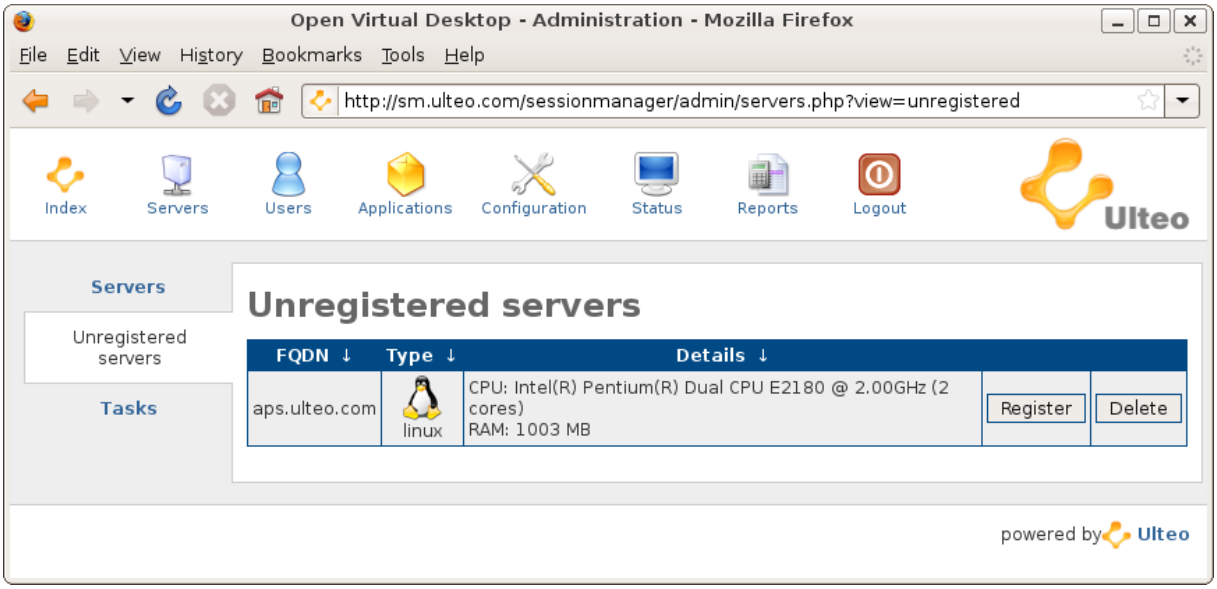
```
# /etc/init.d/ulteo-ovd restart
```

4.1 Configuration

4.1.1 Register the server

An Application server has been installed and is now ready. First, we have to register it, and switch it from *maintenance* mode to *production* mode.

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



If your server does not appear in the list, you might have a DNS configuration issue, please report to the **FAQ** to solve this issue.

- If you want to use this server on your network, you have to click on *register*.
- Now, click on *Switch to production* to switch it to Production mode.

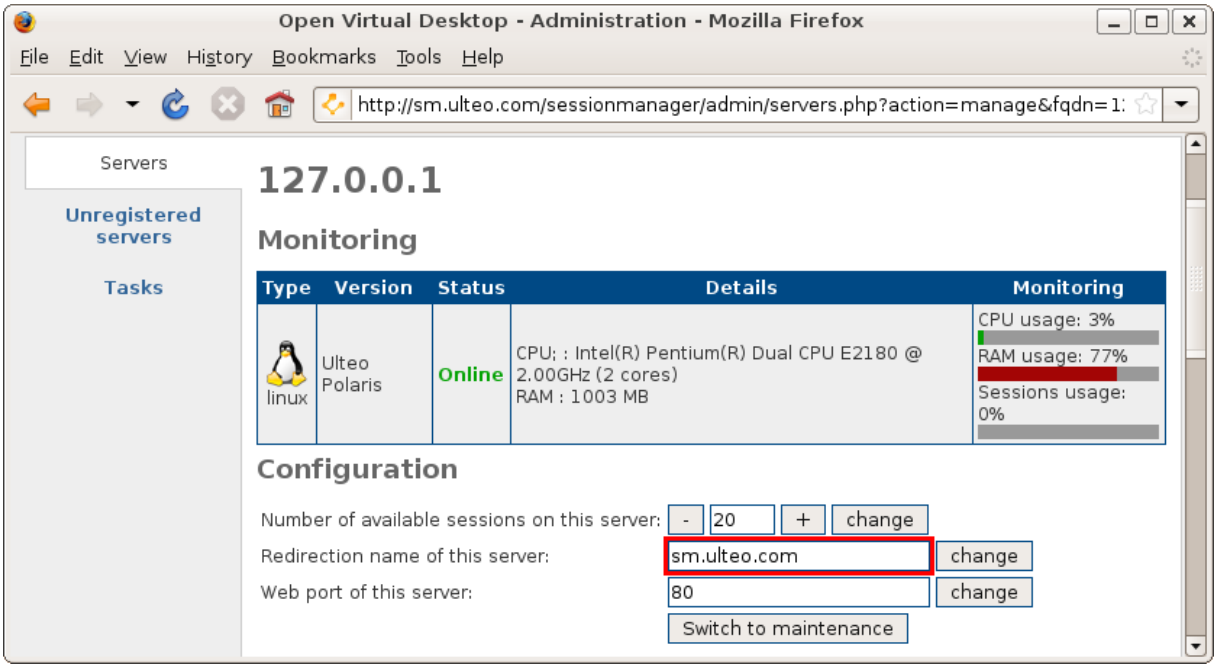
4.1.2 Set an redirection name

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

IMPORTANT

If you installed your Application server on the same machine as your Session Manager and you follow our advices, you setup **127.0.0.1** as server name so you **must** define an redirection name.

The **redirection name** is used to launch session. When you launch a session, you are redirected to an Application server using the redirection name as redirection. In some cases the default redirection name (the FQDN you gave at the ApS installation) is not valid. For instance, if you setup an private IP address and you want to connect from Internet.

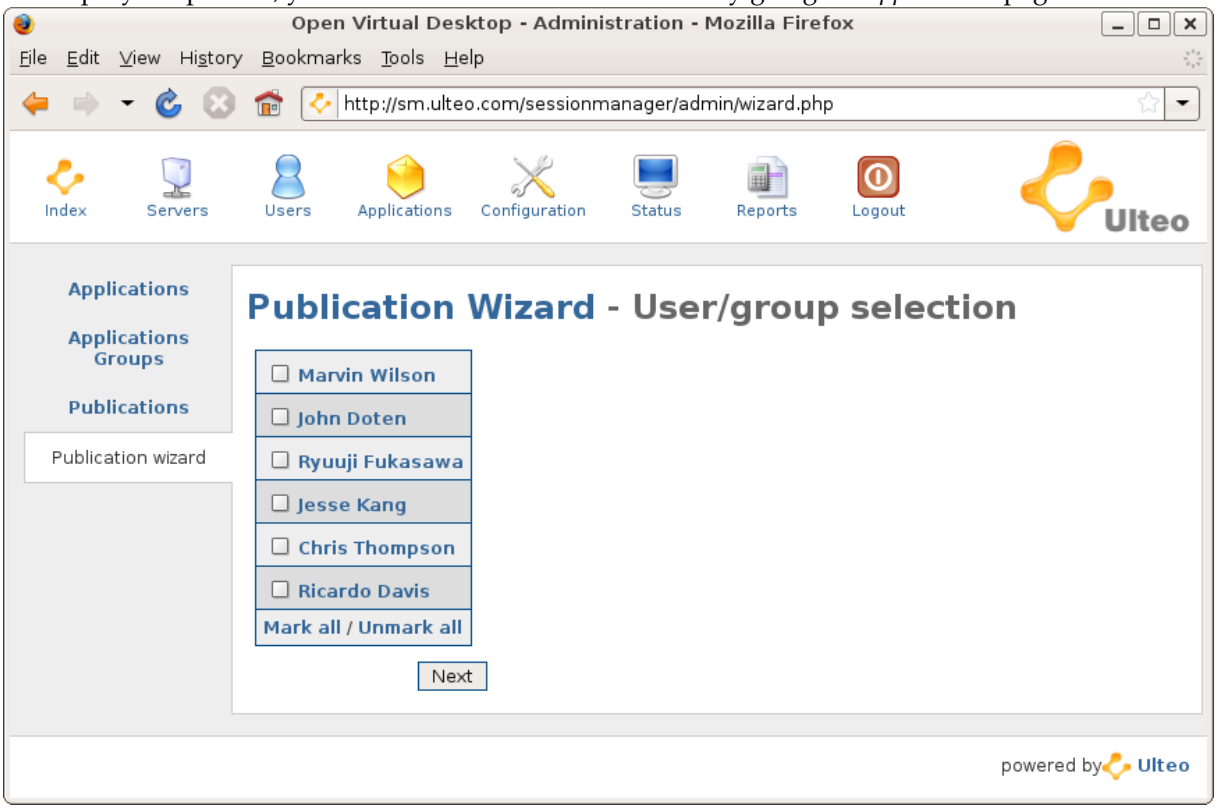

Open Virtual Desktop - Administration - Mozilla Firefox
File Edit View History Bookmarks Tools Help
http://sm.ulteo.com/sessionmanager/admin/servers.php?action=manage&fqdn=1
Servers
Unregistered servers
Tasks
127.0.0.1
Monitoring
Type
Version
Status
Details
Monitoring
linux
Ulteo Polaris
Online
CPU; : Intel(R) Pentium(R) Dual CPU E2180 @ 2.00GHz (2 cores)
RAM : 1003 MB
CPU usage: 3%
RAM usage: 77%
Sessions usage: 0%
Configuration
Number of available sessions on this server:
-
20
+
change
Redirection name of this server:
sm.ulteo.com
change
Web port of this server:
80
change
Switch to maintenance

5 Perform a "Publication"

A publication is an association between a users group and an applications group. It's an authorization for a users group to launch the applications include in the group.

By default, there is no users or applications group installed so you have to create it to launch sessions (it's not possible to launch session without application in the default configuration).

To simplify the process, you can use the **Publication wizard** by going on *Applications* page.



Go to the Publications page, select and follow the *wizard* steps.

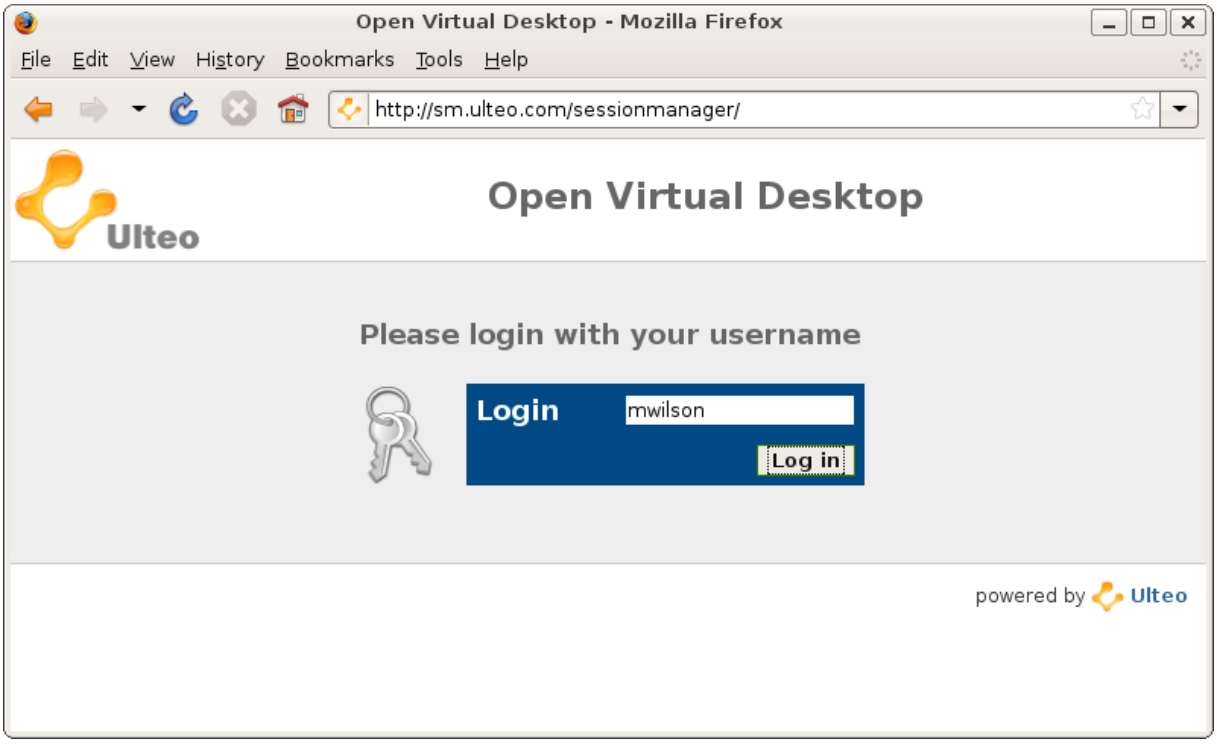
6 Launch a session

IMPORTANT

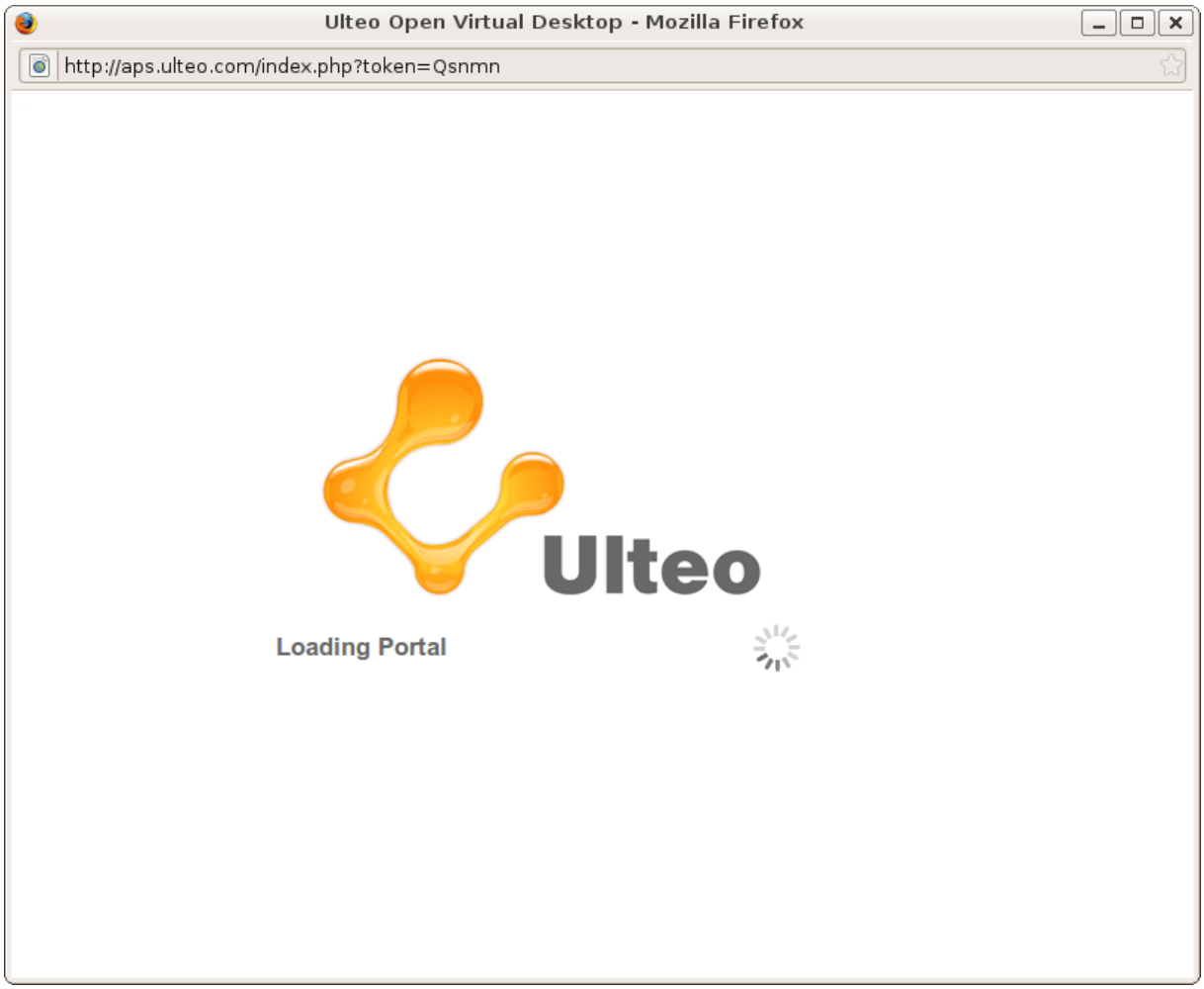
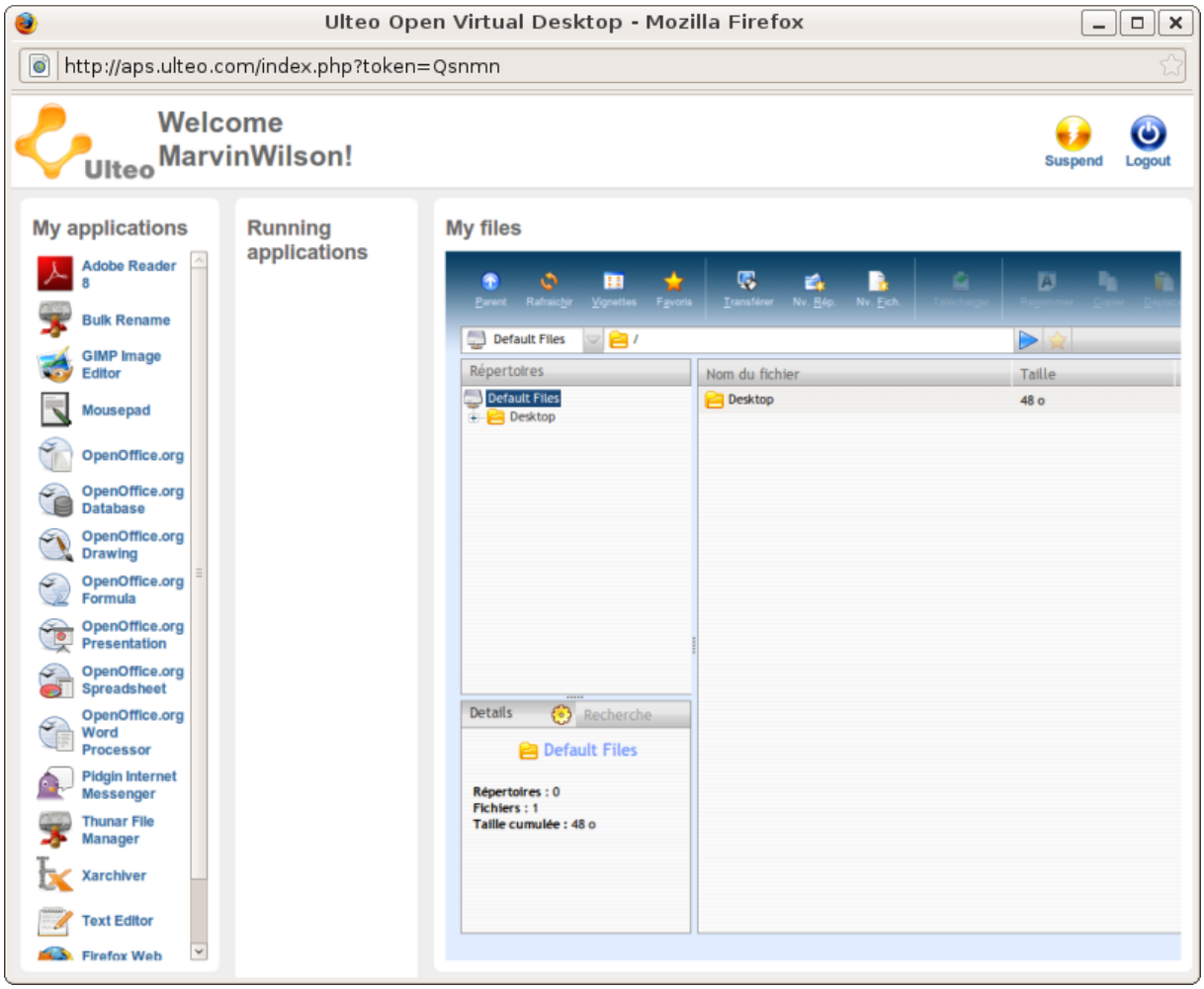
Client prerequisites:

- Java 1.5/1.6 (Sun or OpenJDK)
- browser: Firefox 2+ or Internet Explorer 7+

- Back to http://sm.ulteo.com/sessionmanager/ with your browser, you should see a login page:



- Once logged in, the session is launching:



- The session is launched and is ready to use with applications that have been published for the user: