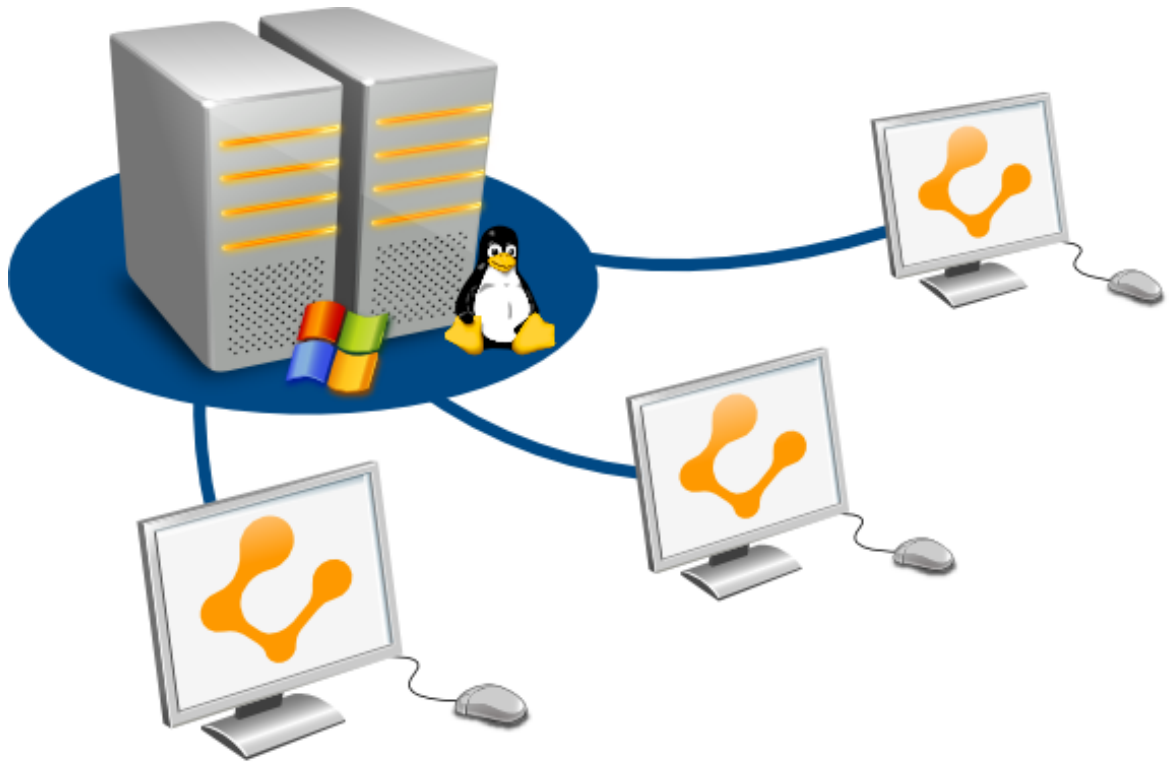


Installation documentation for Ulteo Open Virtual Desktop



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Contents

1	Prerequisites	1
1.1	Installation of MySQL	1
2	Session Manager (sm.ulteo.com)	2
2.1	Installation	2
2.1.1	Setup the application system archive	4
2.2	Configuration	4
3	Application Server installation (cm.ulteo.com)	7
4	Register the server and perform a "Publication"	9
5	Launch a session	11

1 Prerequisites

At least two machines are needed to install Ulteo Open Virtual Desktop:

- a LAMP (Linux Apache MySQL PHP) server for the Session Manager. (for the example here we are using *sm.ulteo.com* but you need to set your own domain name)
- another server for the Application Server. (for the example here we use *cm.ulteo.com* but you need to set your name in accordance with your own domain name)

Both servers need to be installed with **Ubuntu 8.04.1 (Hardy Heron) Server for x86/32 bits** (it can be downloaded from <http://releases.ubuntu.com/8.04/ubuntu-8.04.1-server-i386.iso>) All operations need to be done as *super user*.

- To enable the root account:

```
$ sudo passwd
$ su
```

1.1 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.

- Now log in mysql, create a database and a user that will have rights on this database:

```
# mysql -u root -p
Enter password:
mysql> create database ulteo_sm;
Query OK, 1 row affected (0.05 sec)
mysql> GRANT ALL PRIVILEGES ON ulteo_sm.* TO 'ulteoadmin'@'localhost' ←
IDENTIFIED BY 'secret' WITH GRANT OPTION;
Query OK, 0 rows affected (0.03 sec)
mysql> quit
```

2 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.

The Session Manager needs a MySQL database access to run. If you don't have any MySQL database, you can install it on your Session Manager server by reading this [documentation](#).

2.1 Installation

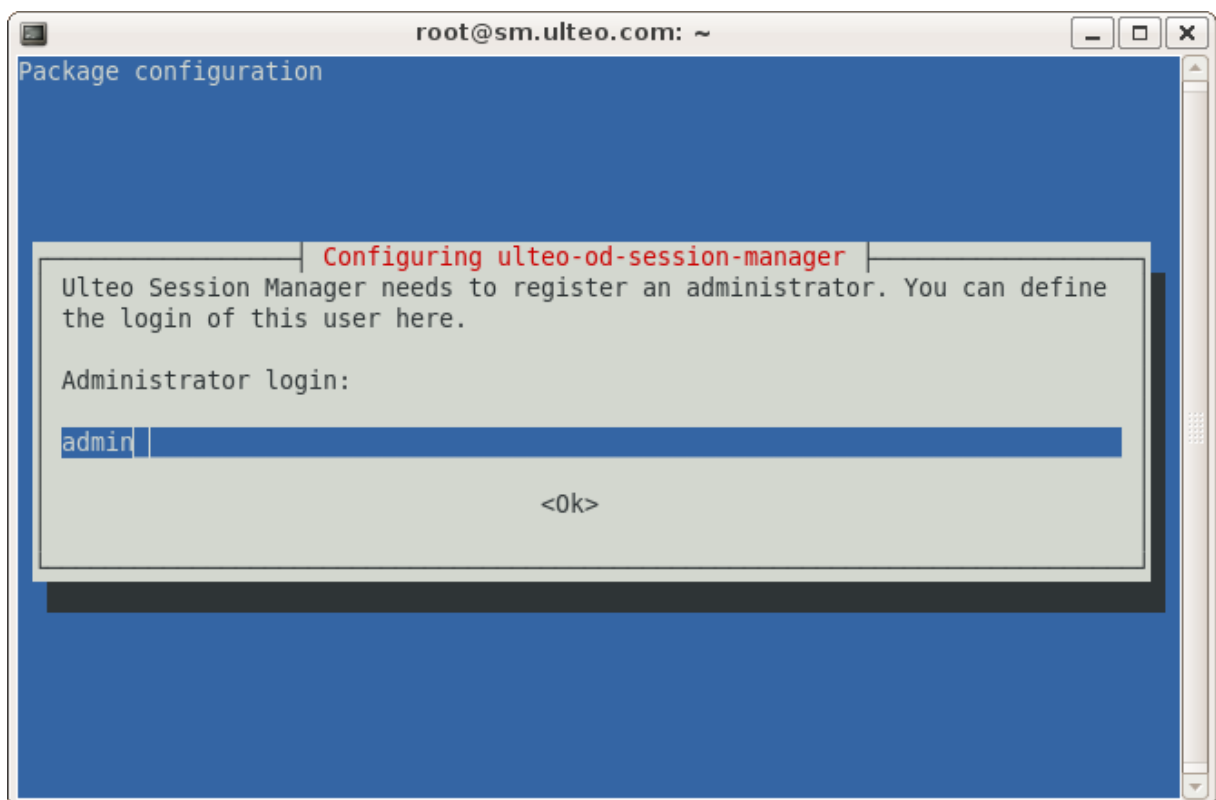
- Add the Ulteo repository to the repository list:

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

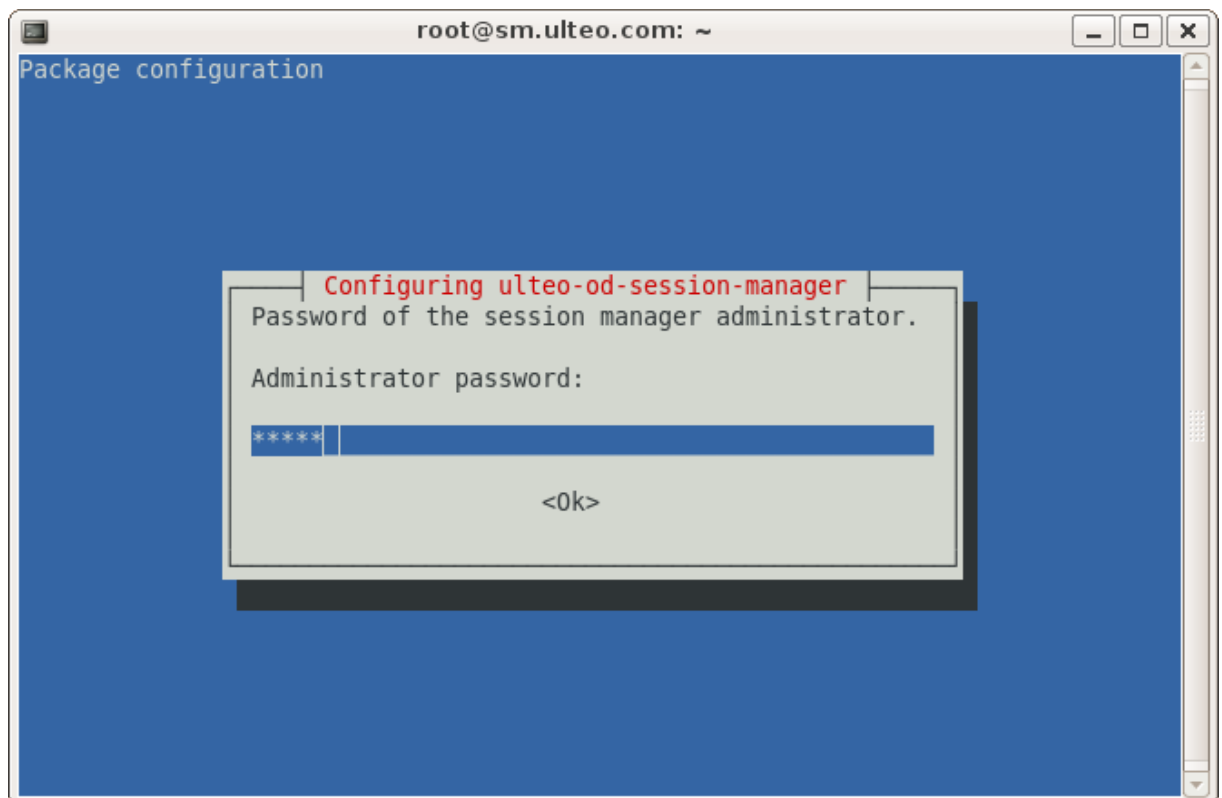
- Install the *ulteo-ovd-session-manager* package:

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

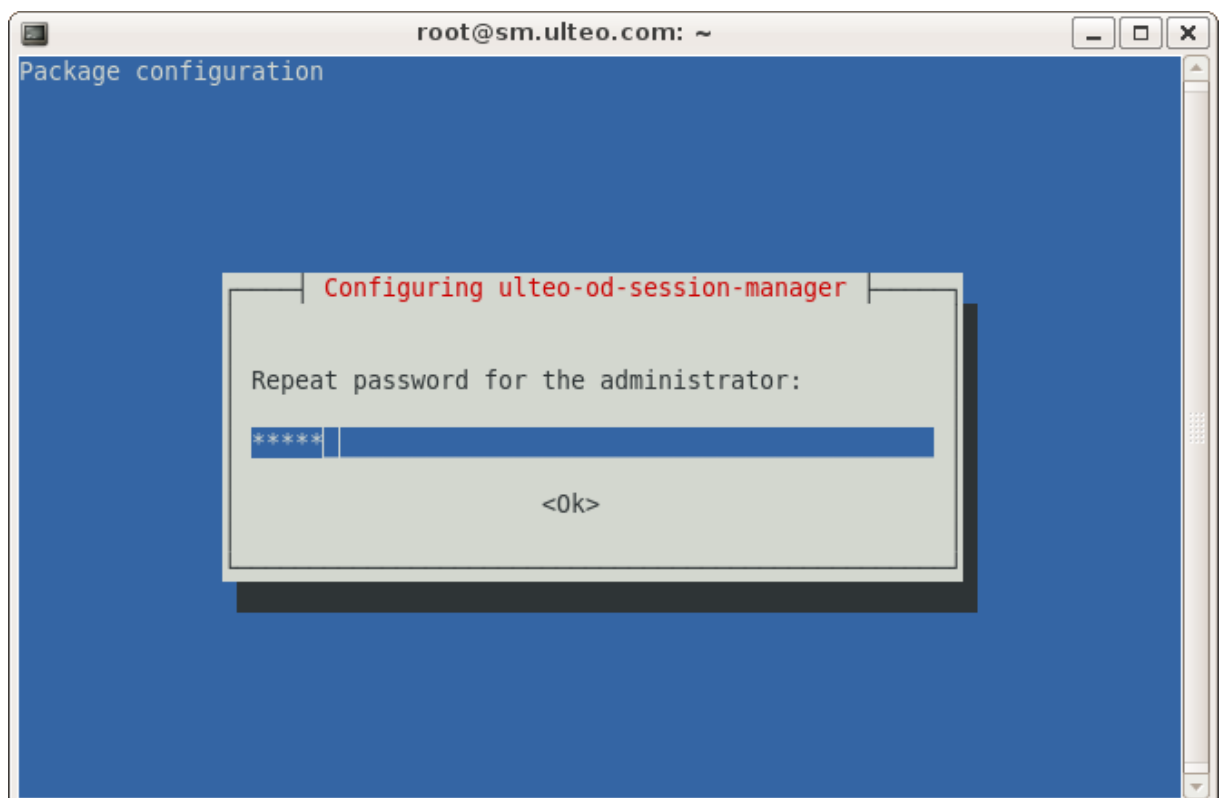
- The installer asks for an admin login



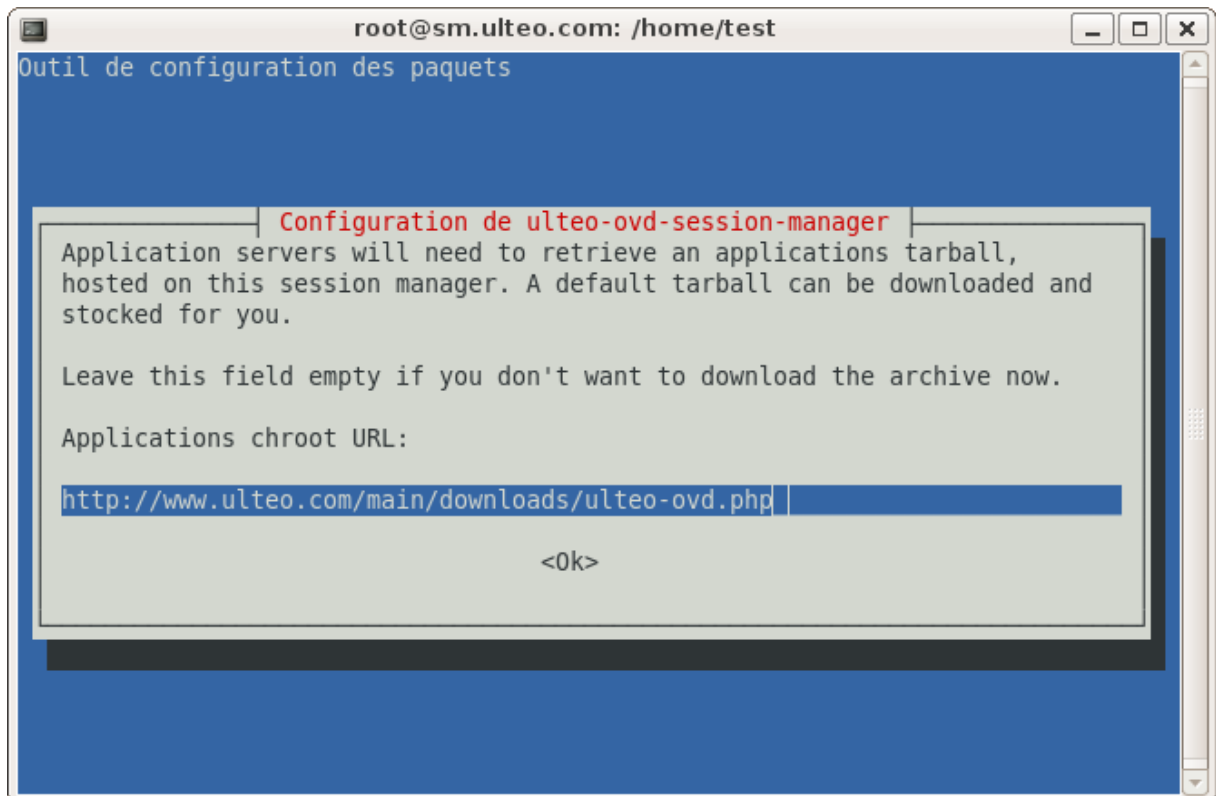
- And a password:



- which has to be confirmed:

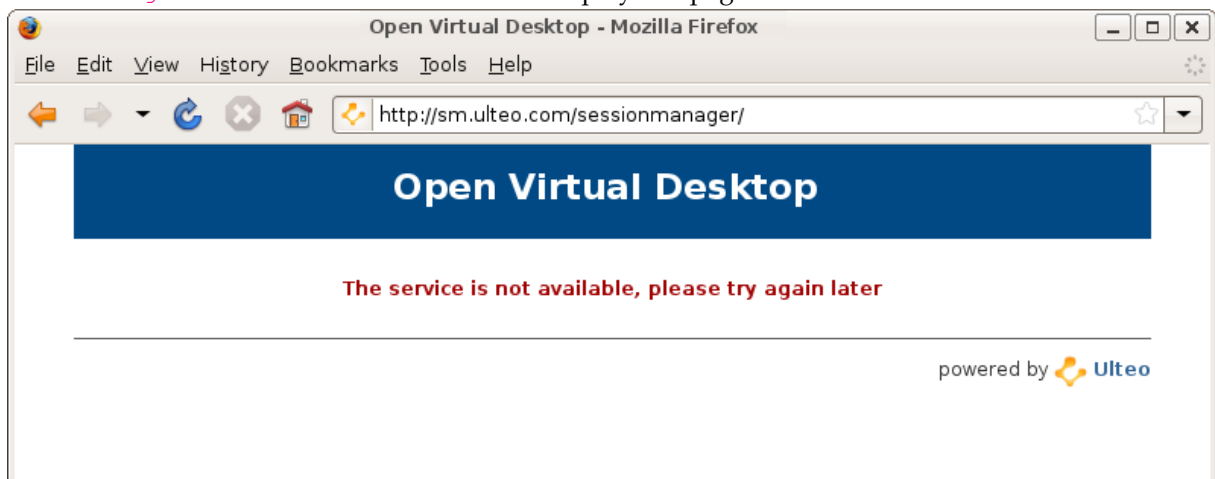


- Application servers are using an application system that will be the same for all your application servers:



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:



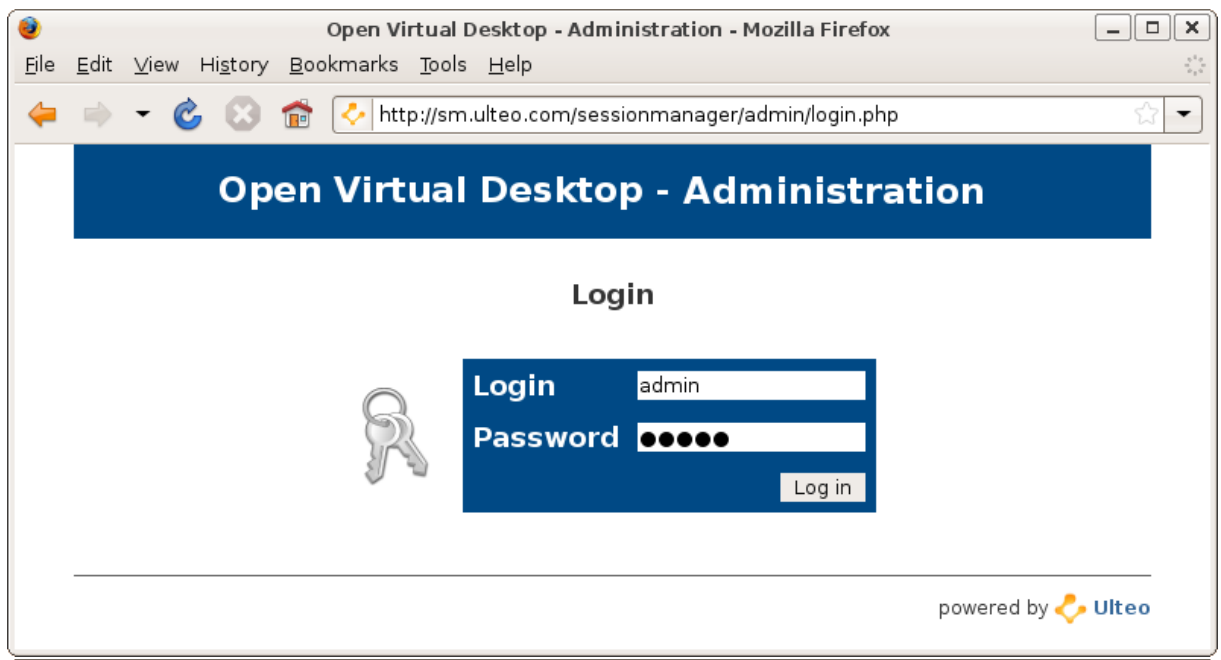
2.1.1 Setup the application system archive

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> 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`

2.2 Configuration

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




Open Virtual Desktop - Administration - Mozilla Firefox

File Edit View History Bookmarks Tools Help

http://sm.ulteo.com/sessionmanager/admin/login.php


Open Virtual Desktop - Administration

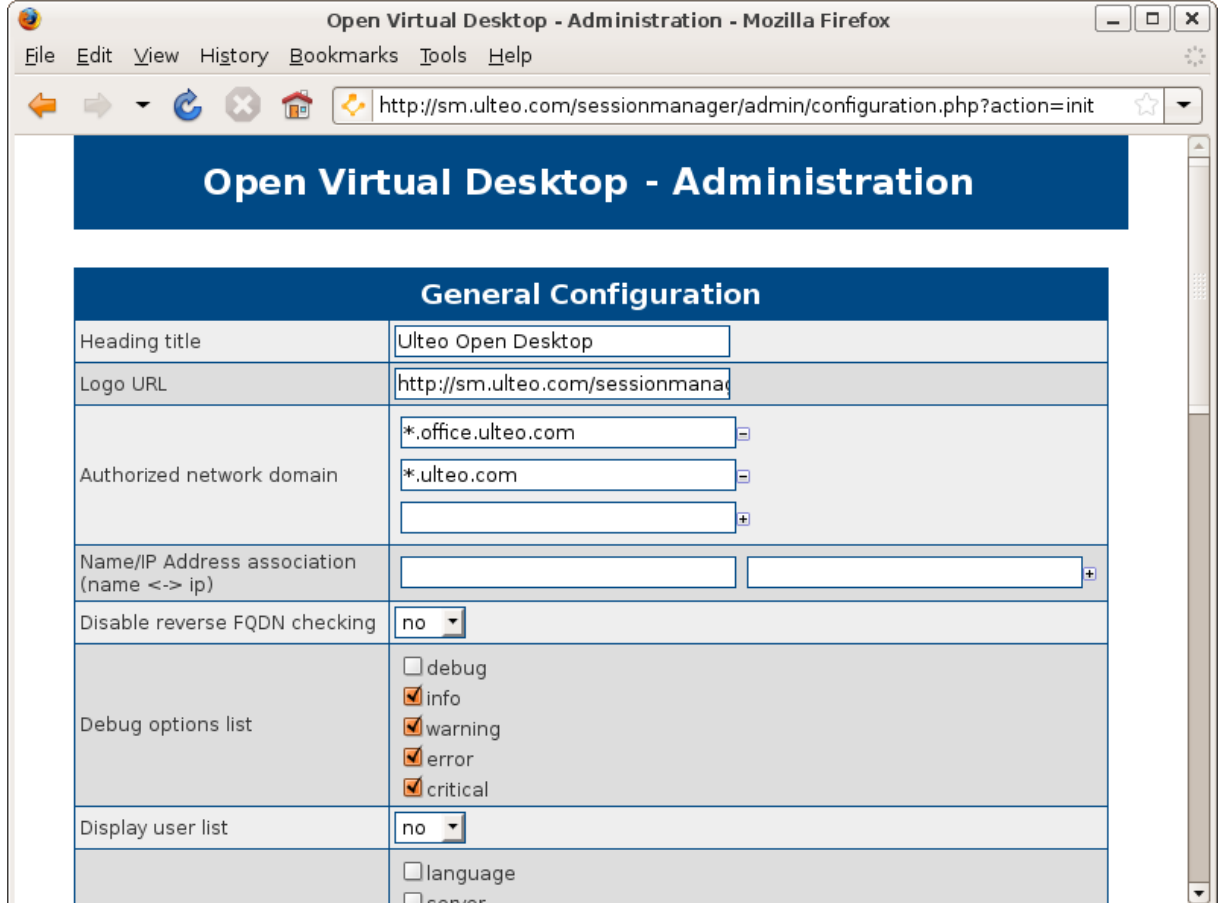
Login



Login

Password

powered by  Ulteo



Open Virtual Desktop - Administration - Mozilla Firefox

File Edit View History Bookmarks Tools Help

http://sm.ulteo.com/sessionmanager/admin/configuration.php?action=init

Open Virtual Desktop - Administration

General Configuration

Heading title	<input type="text" value="Ulteo Open Desktop"/>
Logo URL	<input type="text" value="http://sm.ulteo.com/sessionmanager"/>
Authorized network domain	<input type="text" value="*.office.ulteo.com"/> - <input type="text" value="*.ulteo.com"/> - <input type="text"/> +
Name/IP Address association (name <-> ip)	<input type="text"/> <input type="text"/> +
Disable reverse FQDN checking	<input type="text" value="no"/>
Debug options list	<input type="checkbox"/> debug <input checked="" type="checkbox"/> info <input checked="" type="checkbox"/> warning <input checked="" type="checkbox"/> error <input checked="" type="checkbox"/> critical
Display user list	<input type="text" value="no"/>
	<input type="checkbox"/> language <input type="checkbox"/> server

- **Authorized network domain:** replace by the domain name of your network.
- **Disable reverse FQDN checking:** if you don't have a valid domain name service for your machines, you have to select *yes* but it may be a security risk. Ideally, you should configure your DNS server correctly and keep this option to *No*.
- **Advanced settings options:** You can allow the user to force some options. For instance, to force the application server to want to use, or to enable the debug mode.
- **MySQL configuration:** you have to provide some MySQL configuration data to get the system work.

- **Module ApplicationDB:** select MySQL. The "fake" module is a hard-coded application list used when there are problems with the automatic application detection.
- **Module UserDB:** there are several ways to plug users into the system:
 - *fake*: it's a hard-coded user list to quickly test the system. For instance, you can begin with this module if you have never tested it earlier.
 - *LDAP*: if you are using LDAP to manage your users, you can select this module and configure how to match your users with the directory (LDAP tree, DN ...).
 - *Active Directory*: if you want to plug the system into your Active Directory server, select this module and provide you AD server name and domain.
- **Plugin configuration FS:** You can choose how to manage the home directory for your users:
 - if you select Active Directory as UserDB, you certainly want to use the Windows share directory from your CIFS servers. In that case, select the CIFS module.
 - if you are using NFS servers for your users home dirs and you know how to setup the matching between the local DB and your LDAP configuration, then you can select NFS.
 - If you don't have any networked filesystem available, select local. It will store files on the application server.

The session manager has no application server plugged yet. You now have to install one or more application servers.

3 Application Server installation (cm.ulteo.com)

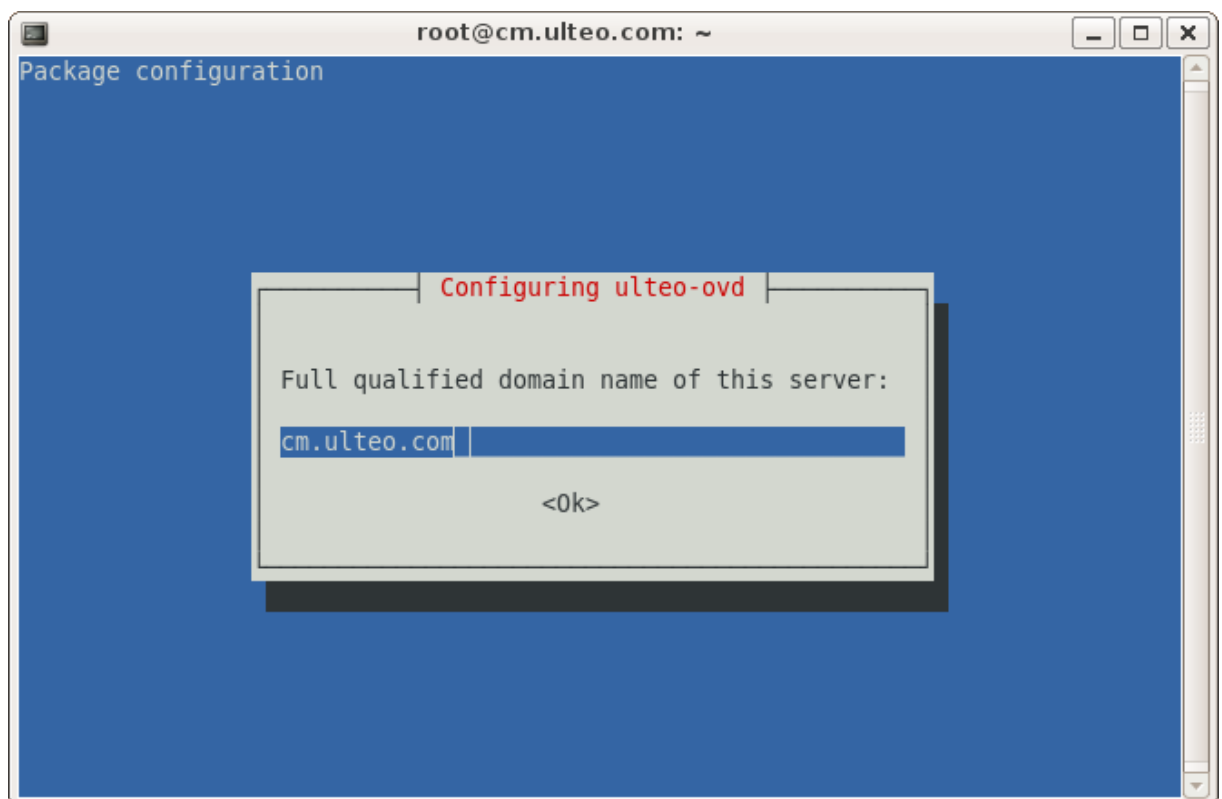
- Add the Ulteo repository to the Ubuntu repository list:

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

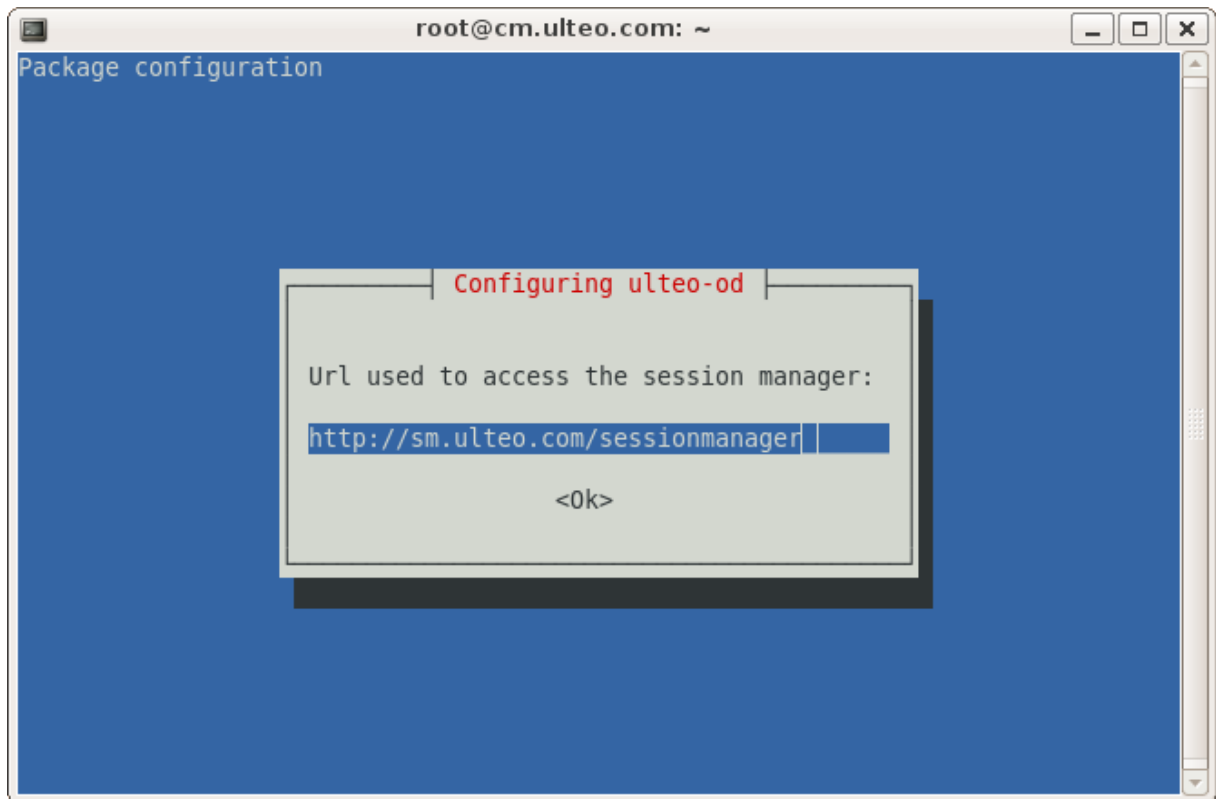
- Install the package *ulteo-ovd*:

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

- 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 *cm.ulteo.com*:



- 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).



The configuration is now done. The system is going to download and uncompress the application system archive from the Session Manager your registered.

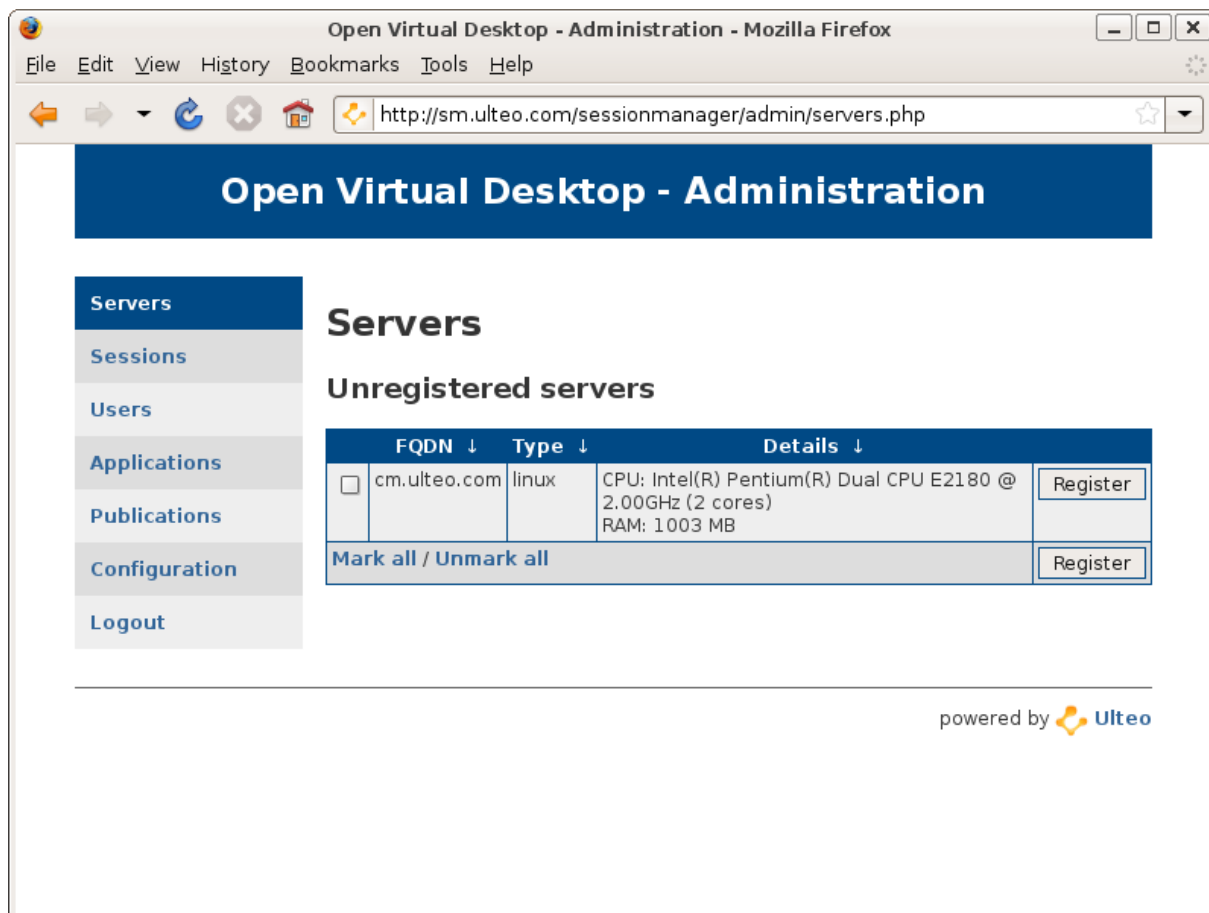
Once done, you just have to restart the service:

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

4 Register the server and perform a "Publication"

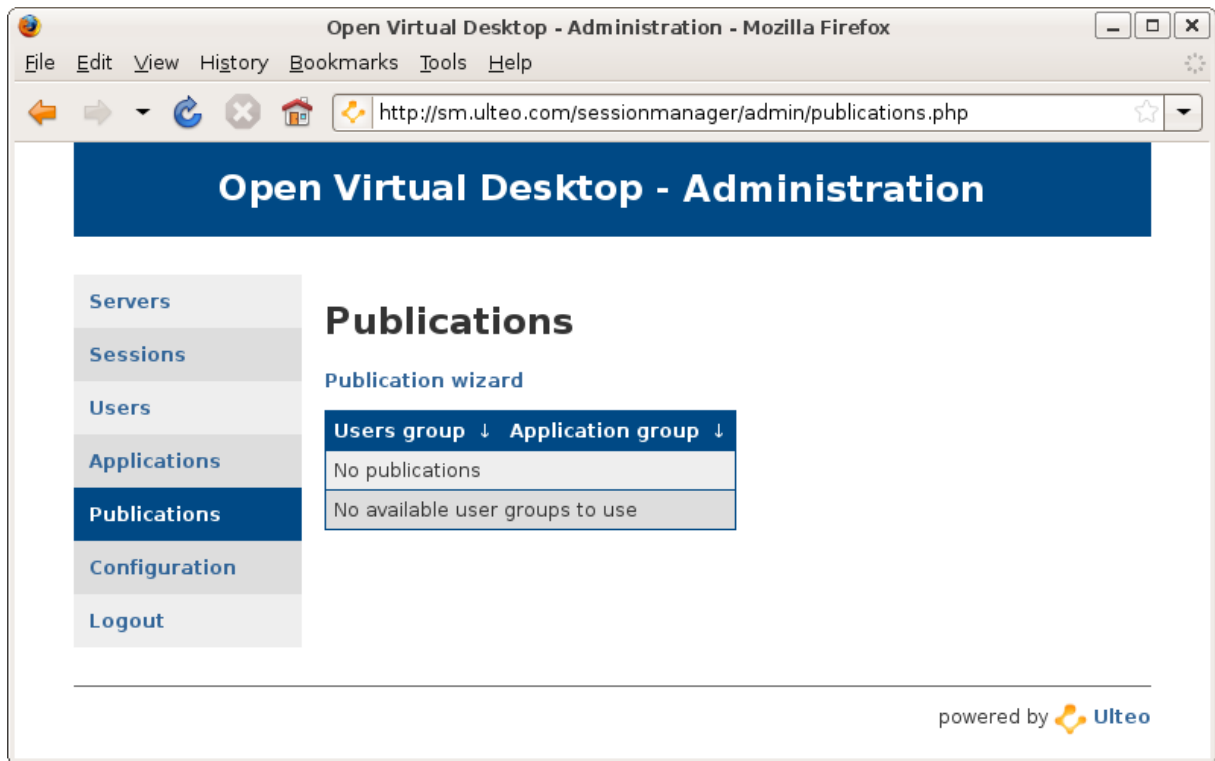
An Application server was installed and is now ready. First, we have to register it, and switch from "maintenance" to "production" mode.

- You should see your server showing up as "unregistered" in the server page:



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

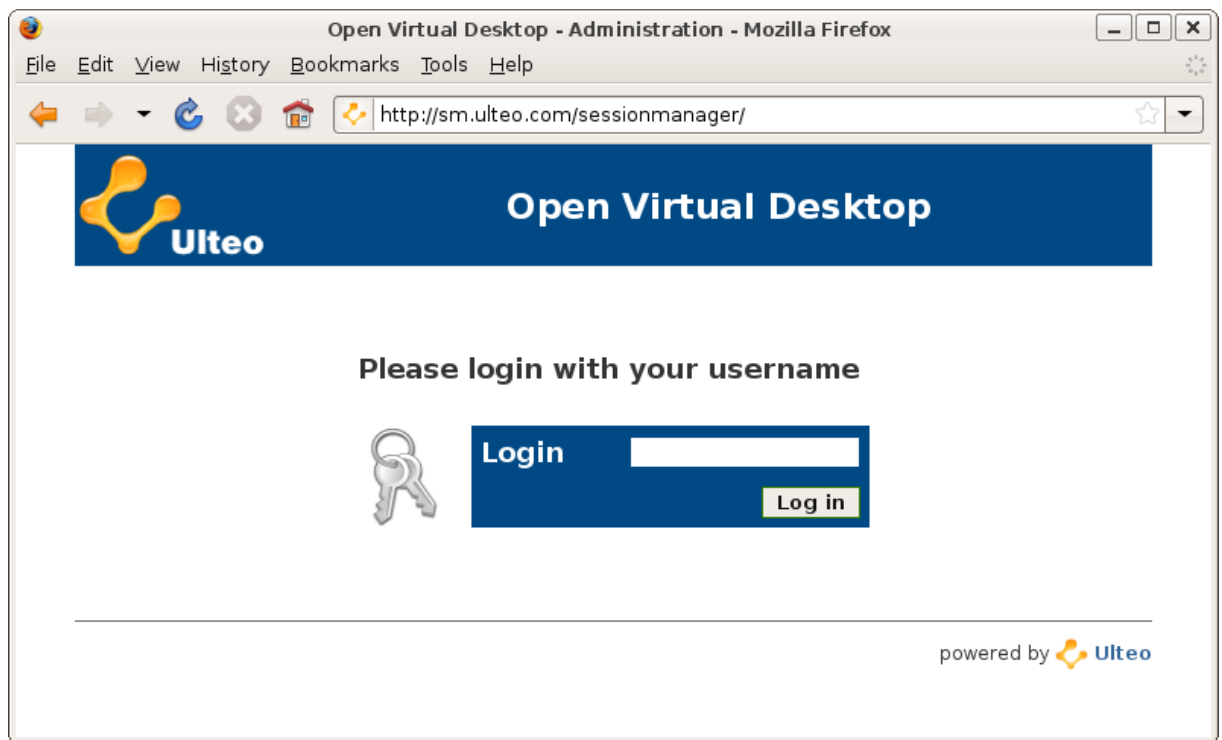
The next step is to perform a "publication" to authorize a group of users to use a group of applications.



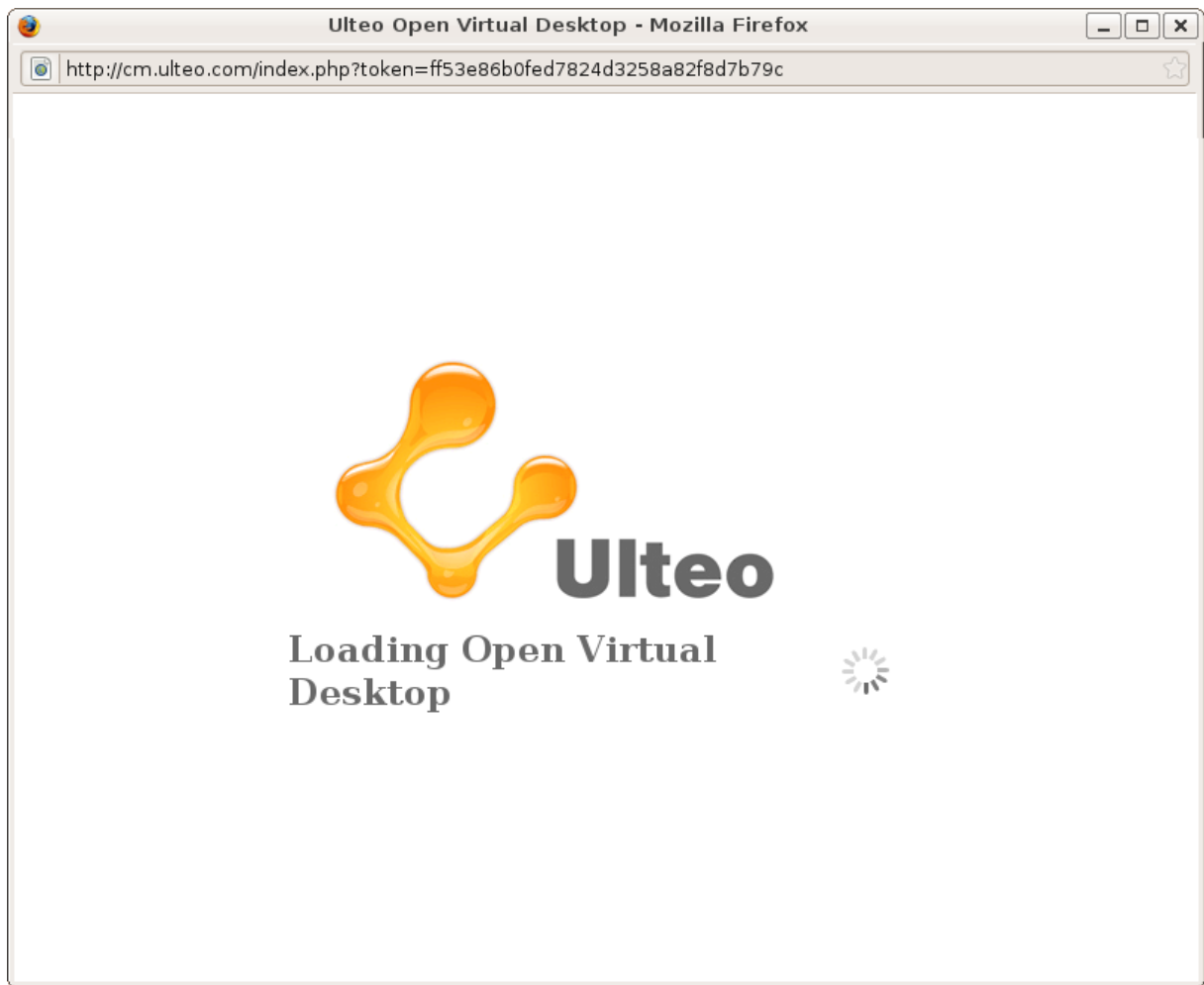
Go to the Publications page, select and follow the *wizard* steps.

5 Launch a session

- 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:

