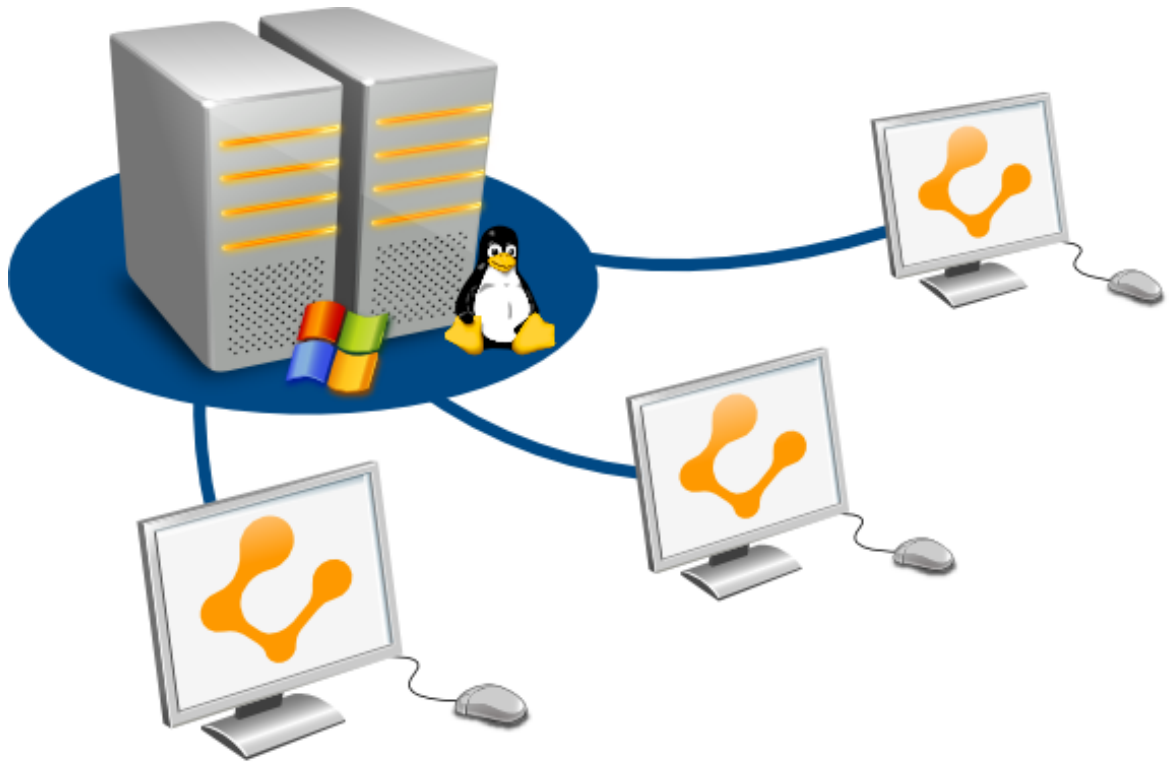


# Installation documentation for Ulteo Virtual Open Desktop on RedHat system



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## 1 Prerequisites

At least two machines are needed to install Ulteo Virtual Open 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 RedHat. All operations need to be done as *super user*.

## 2 Session Manager (sm.ulteo.com)

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

### 2.1 Installation

- Remove the seLinux support:

```
# yum remove selinux-policy
```

- MySQL

- Install the packages:

```
# yum install mysql mysql-server
```

- To starts automatically MySQL whenever the system boots

```
# chkconfig --levels 235 mysqld on
```

- Start the service

```
# /etc/init.d/mysqld start
```

- Set the root password:

```
# /usr/bin/mysqladmin -u root password 'mysql_root_password'
in mysql ( mysql -u root -p )
mysql> create database sm;
```

- Apache and PHP

- Install the packages:

```
# yum install php php-imap php-ldap php-mysql php-xml curl httpd
```

- change in `/etc/httpd/conf/httpd.conf` the `DirectoryIndex` to add `index.php`

- Start the service

```
# /etc/init.d/httpd start
```

- Download ths source from <http://ulteo.com>, ucompress it into `/tmp`

- Install the sessionmanager into /var/www/html

```
# cp -rf sessionmanager /var/www/html/e
```

- Download the application system archive

```
# wget http://www.ulteo.com/main/downloads/ulteo-ovd.php \
--output-document=/var/www/html/sessionmanager/base.tar.gz
```

- Create the configuration directory

```
# mkdir -p /etc/ulteo/sessionmanager
```

And install the default configuration file

```
# cp /var/www/html/sessionmanager/documentation/config.inc.php.default \
/etc/ulteo/sessionmanager/config.inc.php
```

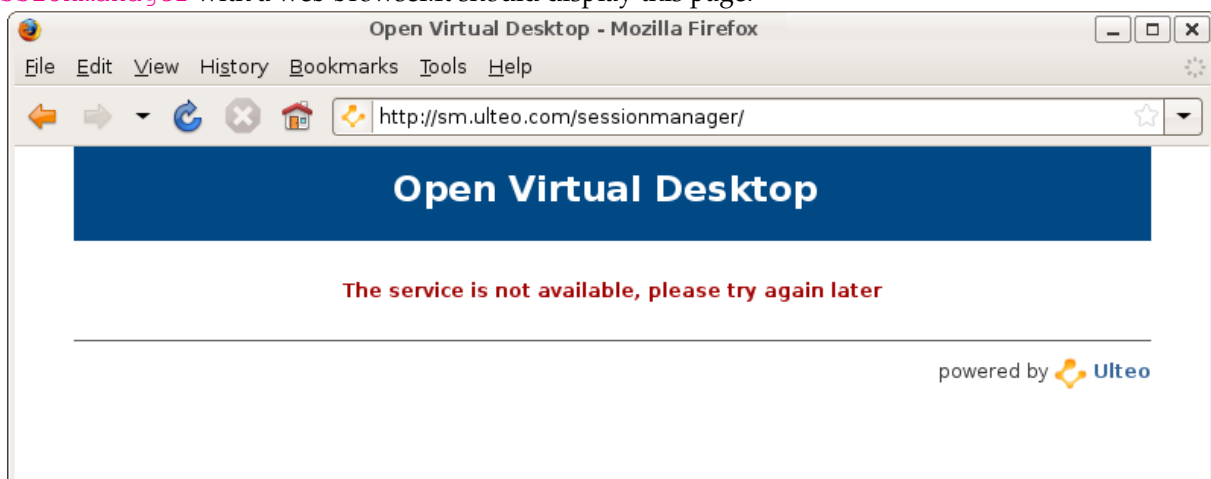
- Create the spool, logs and conf file directories

```
# mkdir -p /var/spool/ulteo/sessionmanager /var/log/ulteo/sessionmanager
```

Change permissions and owners

```
# chown root:apache /var/spool/ulteo/sessionmanager /var/log/ulteo/ ↵
sessionmanager
# chmod 755 /var/spool/ulteo /var/log/ulteo
# chmod 770 /var/spool/ulteo/sessionmanager /var/log/ulteo/sessionmanager
# chmod g+s /var/spool/ulteo/sessionmanager /var/log/ulteo/sessionmanager
```

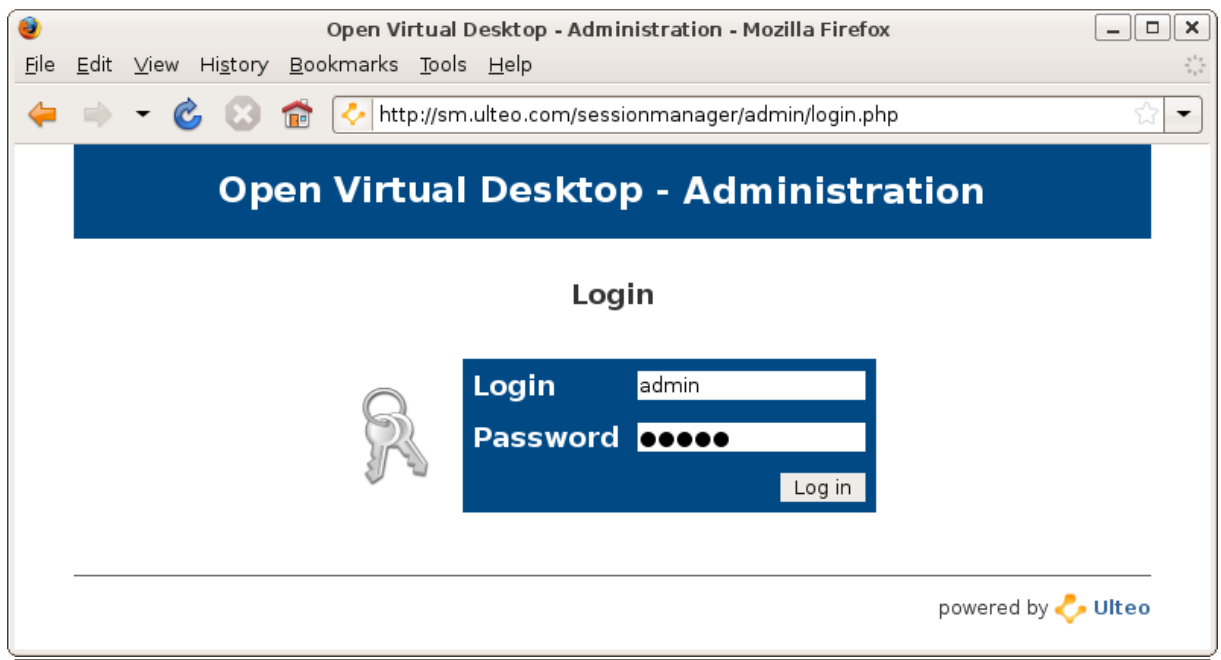
The server is now installed but not configured yet. You have to open <http://sm.ulteo.com/sessionmanager> with a web browser. It should display this page:



## 2.2 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.

The password in the default config is *admin*.




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

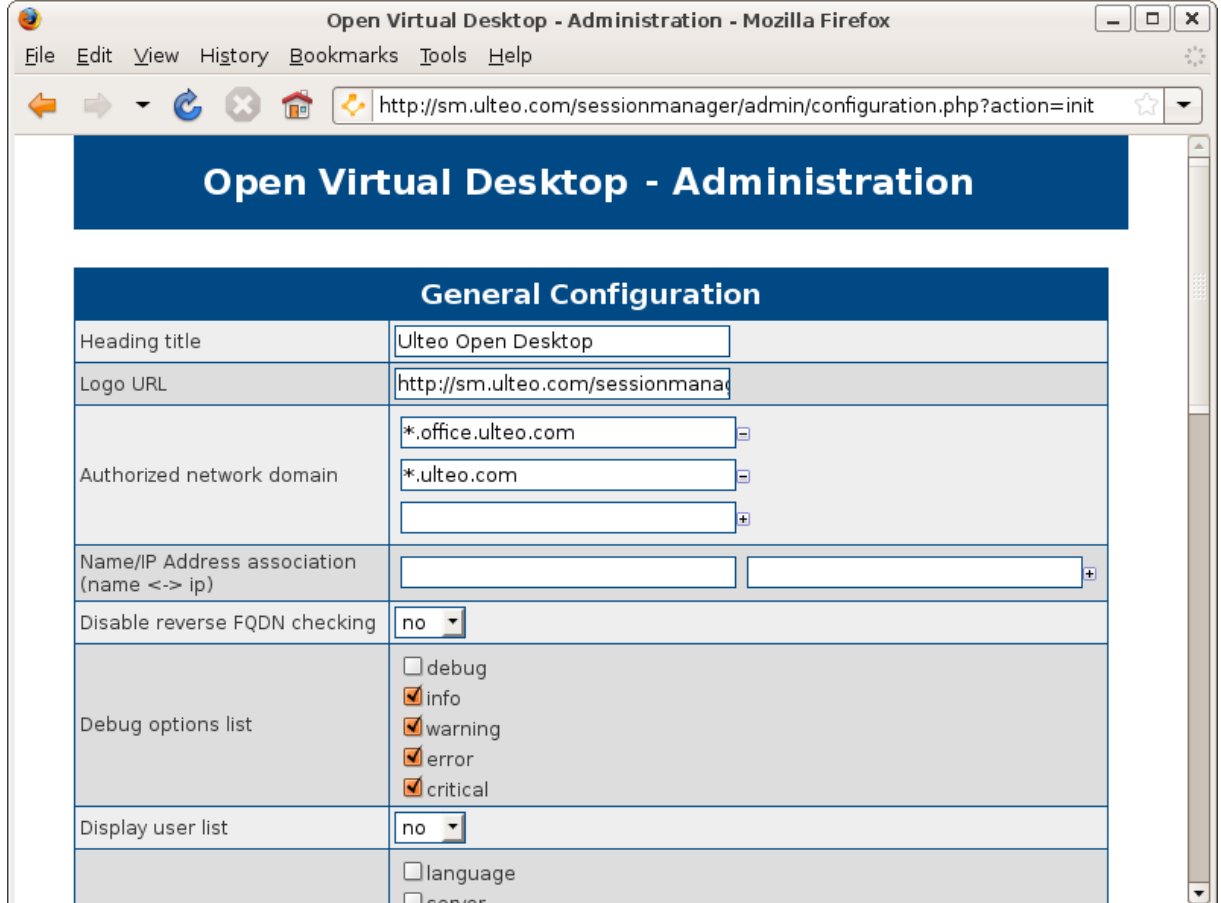


**Login**

**Password**

powered by  Ulteo

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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/admin/logo.png"/>	
Authorized network domain	<input type="text" value="*.office.ulteo.com"/>	-
	<input type="text" value="*.ulteo.com"/>	-
	<input type="text" value=""/>	+
Name/IP Address association (name <-> ip)	<input type="text" value=""/>	<input type="text" value=""/> +
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)

- Remove the seLinux support:

```
# yum remove selinux-policy
```

- Apache and PHP

- Install the packages:

```
# yum install php php-imap php-ldap php-mysql php-xml curl httpd
```

- change in /etc/httpd/conf/httpd.conf the DirectoryIndex to add index.php
- Start the service

```
# /etc/init.d/httpd start
```

- Download this source from <http://ulteo.com>, uncompress it into /tmp
- Install the applicationserver into /var/www/html

```
# cp -rf /tmp/ulteo-od/applicationserver /var/www/html/
```

- Download the application system archive and install it

```
# mkdir /opt/applicationserver
# cd /tmp
# wget http://sm.ulteo.com/sessionmanager/base.tar.gz
# tar pxzf base.tar.gz -C /opt/applicationserver/
# rm -f base.tar.gz
```

Download the application system archive and install it

```
# cp /etc/hosts /opt/applicationserver/etc/hosts
# cp /etc/resolv.conf /opt/applicationserver/etc/resolv.conf
```

- Install the configuration file

```
# echo "CHROOT=/opt/applicationserver"> /etc/ulteo-ovd.conf
# echo "LOG_WWW=/var/log/ulteo/applicationserver" >> /etc/ulteo-ovd.conf
```

And install the default configuration file

```
# cp /var/www/html/sessionmanager/documentation/config.inc.php.default \
/etc/ulteo/sessionmanager/config.inc.php
```

- Create the log directory

```
# mkdir -p /var/log/ulteo/applicationserver
```

Change permissions and owners

```
# chown root:apache /var/log/ulteo/applicationserver
# chmod 770 /var/log/ulteo/applicationserver
# chmod g+s /var/log/ulteo/applicationserver
```

- Setup the configuration file inside the chroot

Specify SERVERNAME et SESSION\_\_MANAGER\_URL

- Restart the service

```
# chroot /opt/applicationserver /etc/init.d/ulteo-ovd restart
```

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

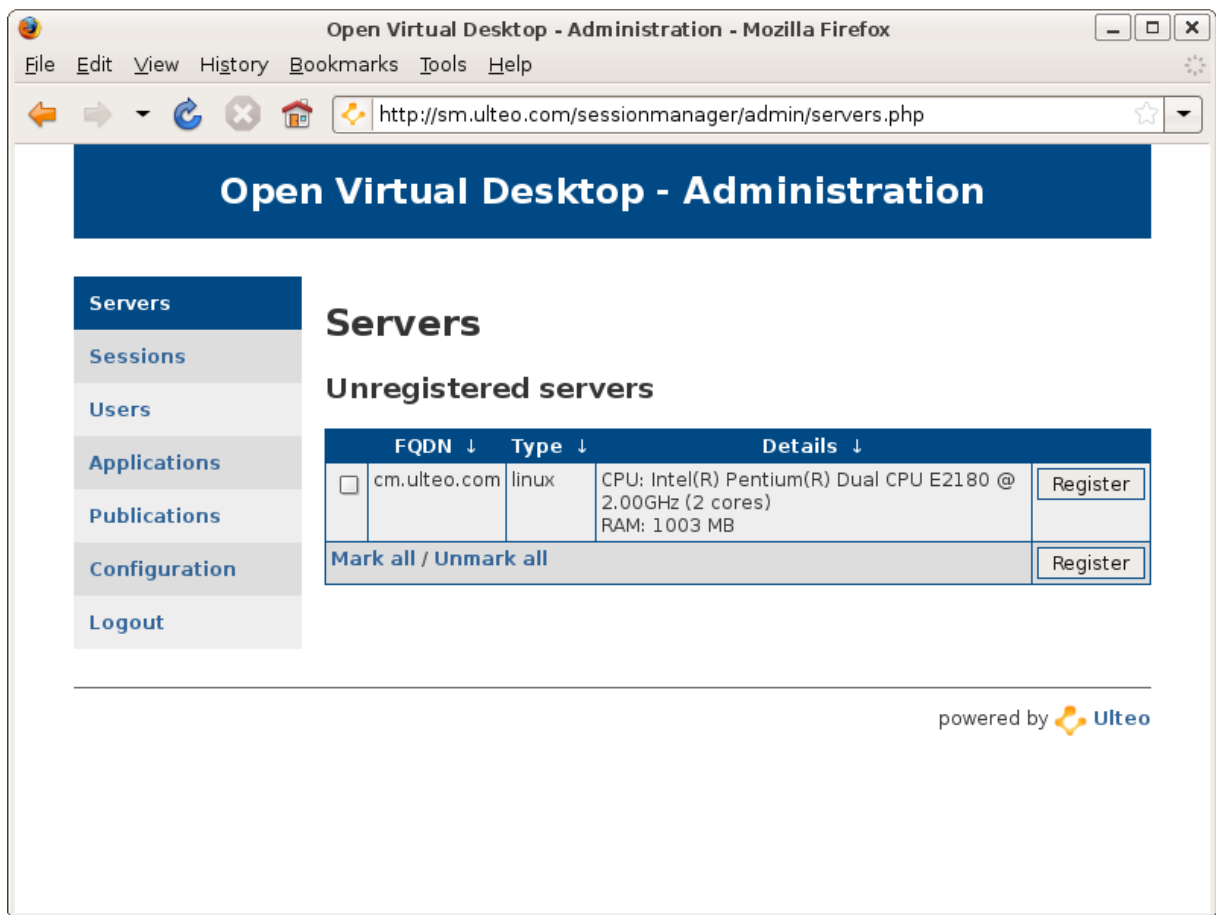
Once done, you just have to restart the service:

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

## 4 Register the server and perform a "Publication"

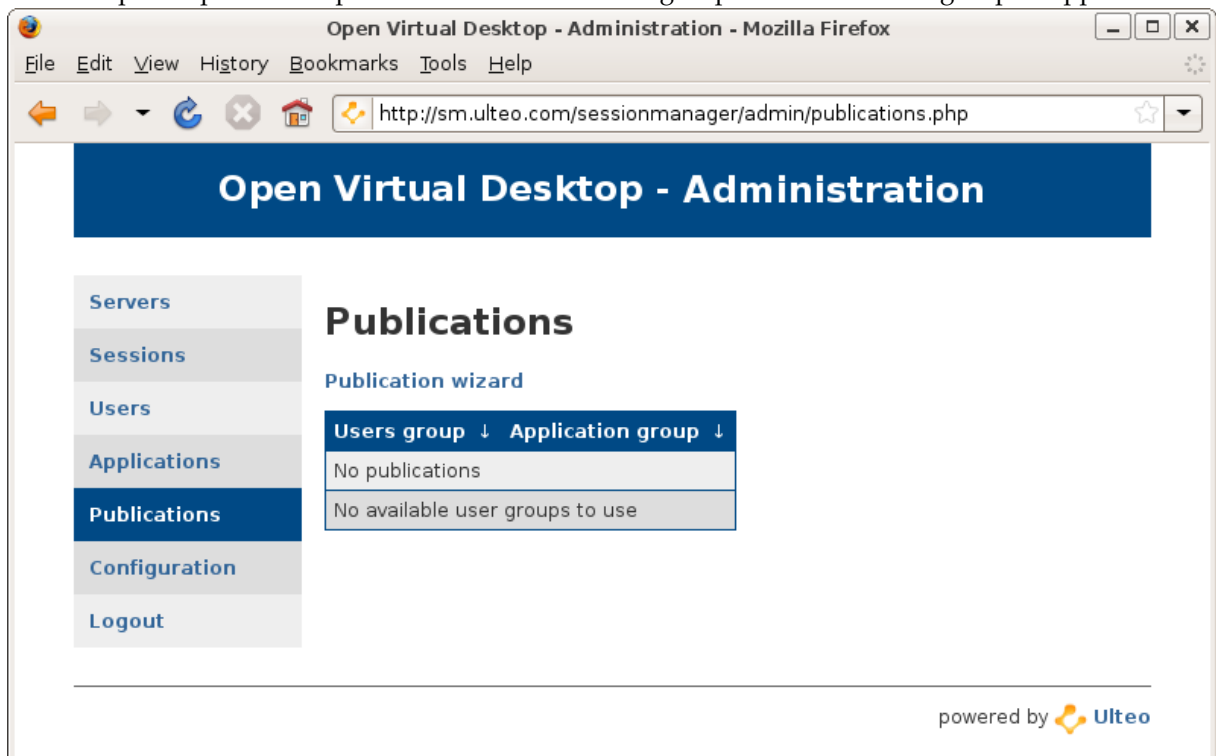
An Application server was installed and is now ready. First, we have to register it, and switch from "maintenance" to "production" mode.

- 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 applica-



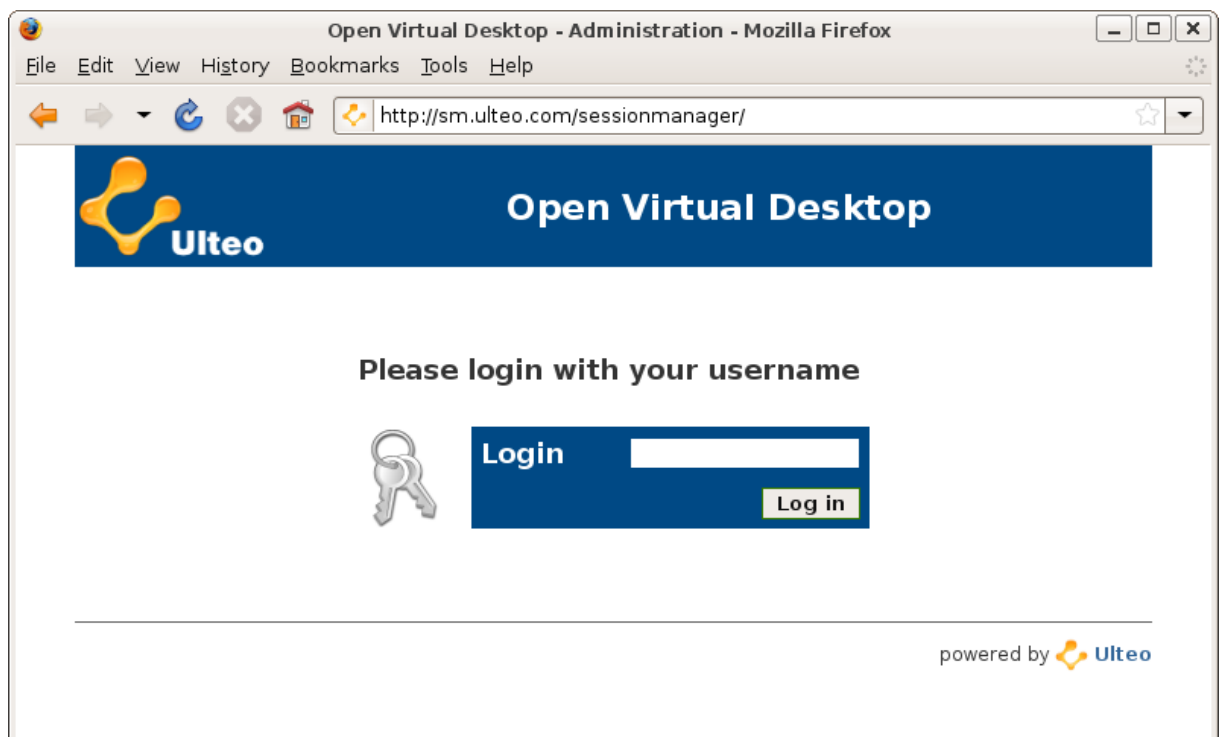
tions.



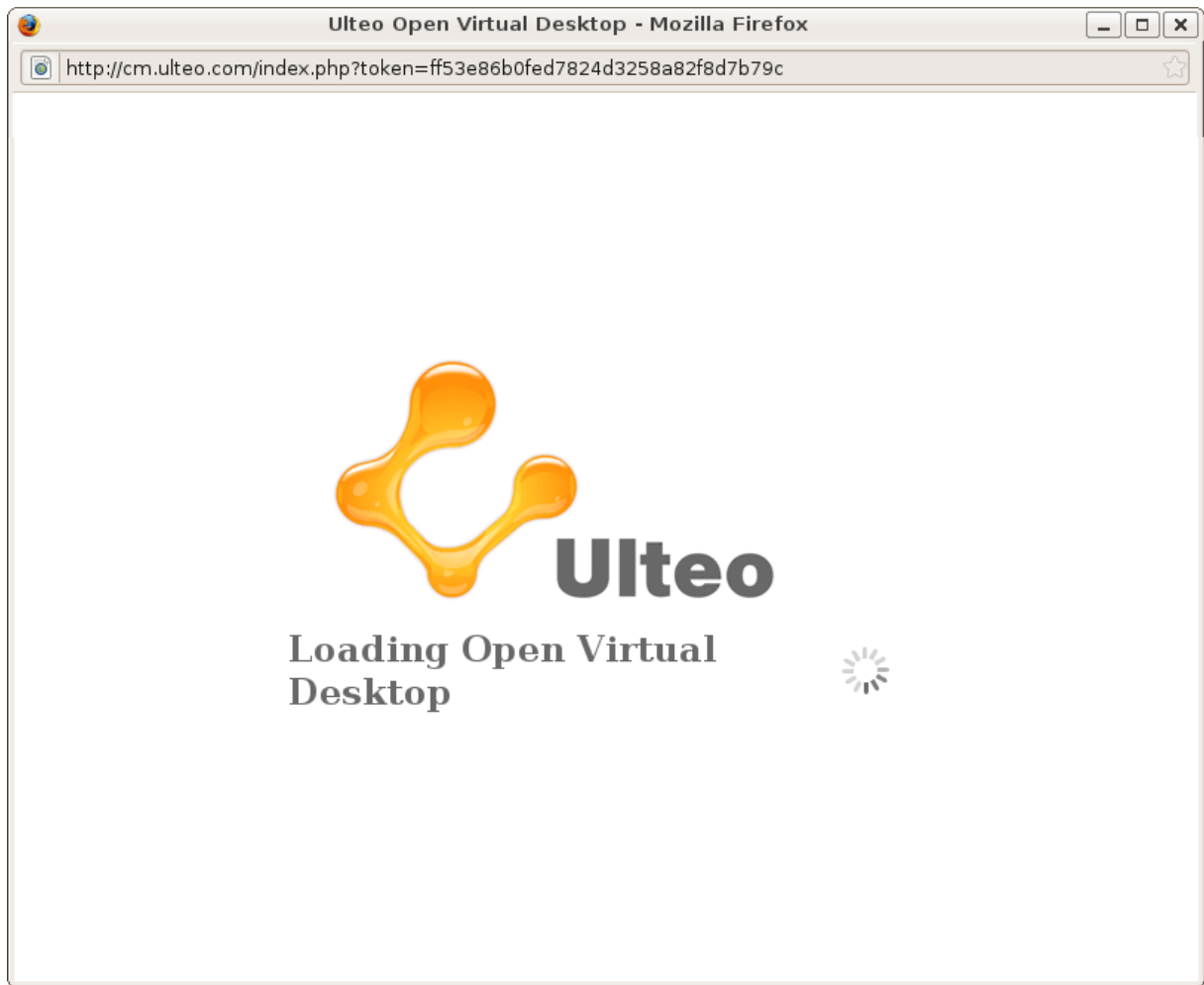
Go to the Publications page, select and follow the *wizard* steps.

## 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:

