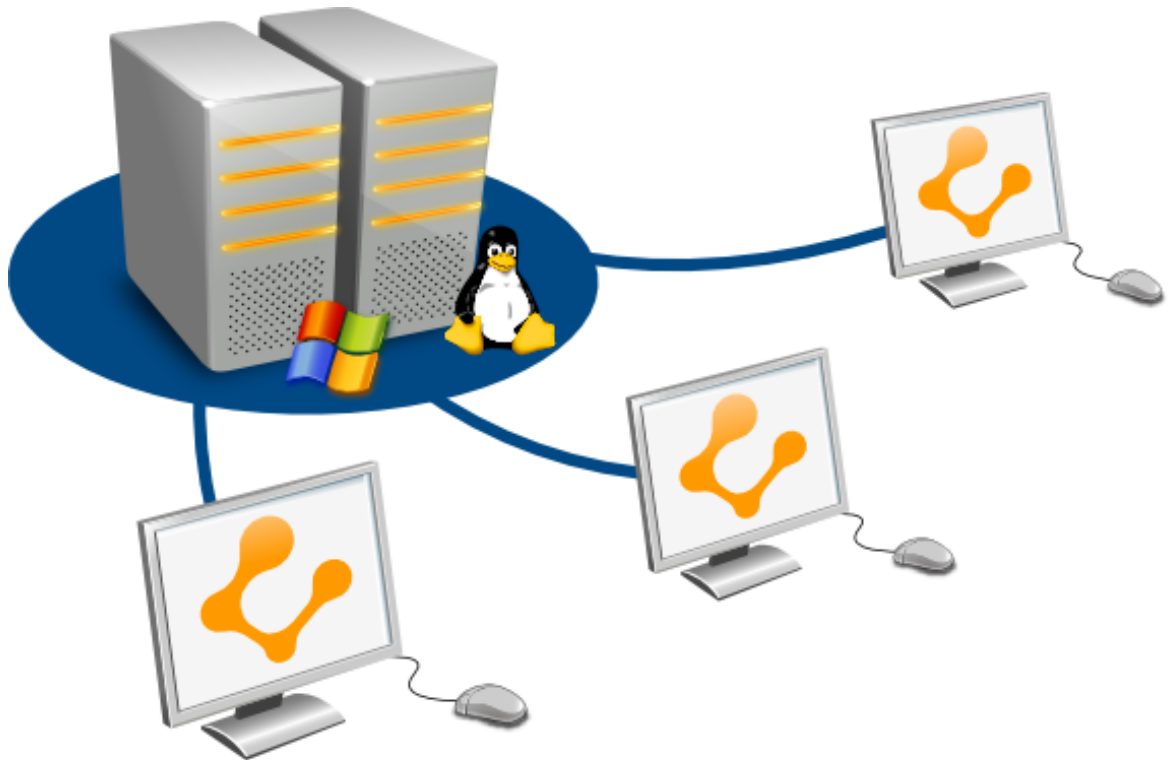


Ulteo Open Virtual Desktop

Installation on Red Hat systems



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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 existing 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 **Red Hat RHEL 5.2 32-bit, Fedora Core 9** or **CentOS 5.2**.

All operations need to be done as *superuser* (root).

1.1 SELinux

Ulteo OVD is not compatible with SELinux yet.

So please disable SELinux support:

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

1.2 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:

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

- To start automatically MySQL when the system boots up

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

- Start the service

```
# service mysqld start
```

- Define the root mysql password

```
# mysqladmin -u root password 'mysql_root_password'
```

- Now log in mysql and create a database:

```
# mysql -u root -p
Enter password:
mysql> create database ulteo_sm;
Query OK, 1 row affected (0.02 sec)
mysql> exit
```

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.

2.1 Installation

- The first step is to configure yum to enable the Ulteo rpm repository. Create the file `/etc/yum.repos.d/ovd.repo` with:

```
[ovd-2.5]
name=Ulteo OVD 2.5
baseurl=http://archive.ulteo.com/ulteo/rpm/rhel5/2.5
enabled=1
gpgcheck=1
gpgkey=http://archive.ulteo.com/ulteo/rpm/ulteo-archive.key
```

- Let rpm know about the ulteo signing key by executing the following commands:

```
# wget http://archive.ulteo.com/ulteo/rpm/ulteo-archive.key
# rpm --import ulteo-archive.key
# rm ulteo-archive.key
```

- Install the `ovd-session-manager` package:

```
# yum install ovd-session-manager
```

- Launch the configuration tool

```
# sm-config
Admin login: admin
Password:
Retype password:
Chroot download url [http://www.ulteo.com/main/downloads/ulteo-ovd.php?suite ↵
=2.5]:
Chroot destination [/usr/share/ulteo/sessionmanager/base.tar.gz]:

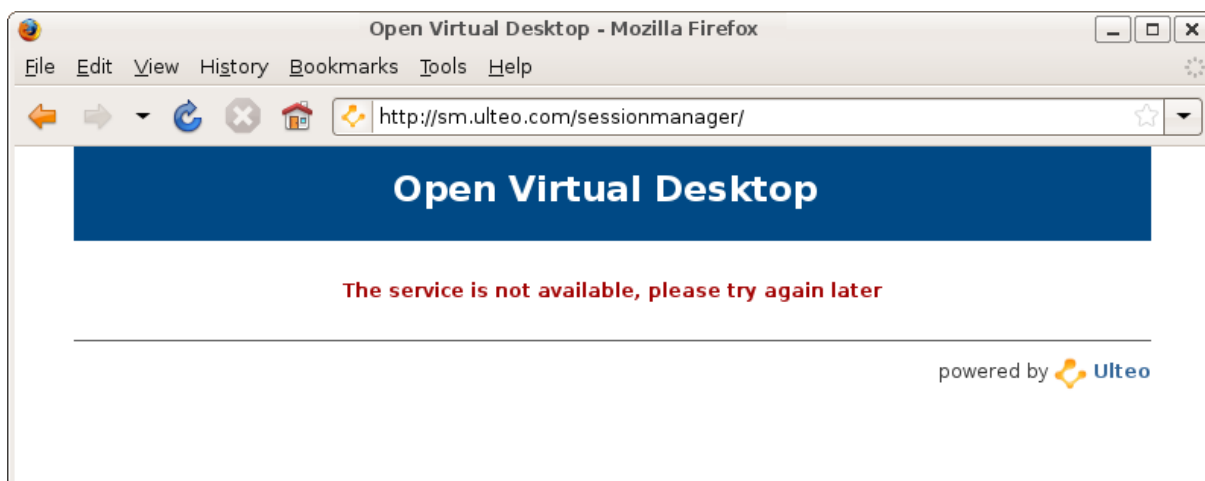
Options:
* chroot download: yes
* chroot URL:      http://www.ulteo.com/main/downloads/ulteo-ovd.php?suite ↵
=2.5
* chroot directory: /usr/share/ulteo/sessionmanager/base.tar.gz
* apache group:    apache
* apache dir:      /etc/httpd/conf.d

Is this correct? [Y/n]
```

- Configure and start apache service

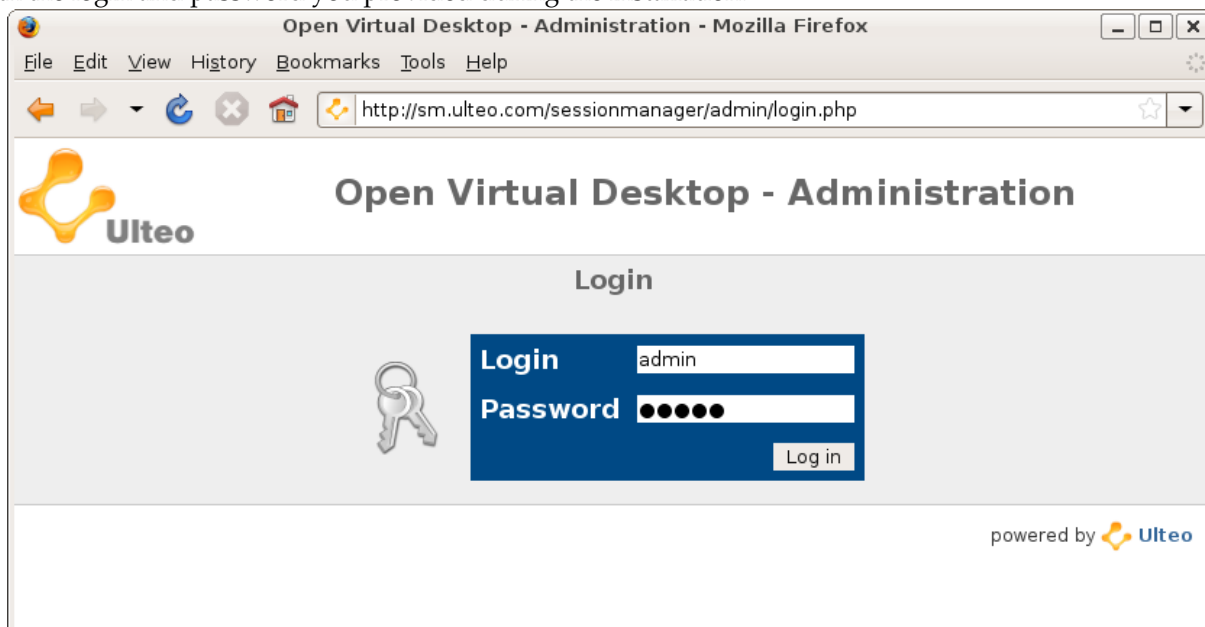
```
# chkconfig httpd on
# service httpd restart
```

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.



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:

The screenshot shows a web browser window titled "Open Virtual Desktop - Administration - Mozilla Firefox". The address bar contains the URL `http://sm.ulteo.com/sessionmanager/admin/configuration.php?action=init`. The page features a navigation menu with icons for Index, Servers, Users, Applications, Configuration, Status, Reports, and Logout. The main content area is titled "MySQL configuration" and contains a form with the following fields:

Database host address	<input type="text" value="localhost"/>
Database username	<input type="text" value="root"/>
Database password	<input type="password" value="●●●●"/>
Database name	<input type="text" value="ulteo_sm"/>
Table prefix	<input type="text" value="ulteo_"/>

Below the form is a "Save" button. The footer of the page reads "powered by Ulteo".

Then, you should be redirected to the main page:

The screenshot shows the main administration page in the Ulteo Session Manager. The browser window title is "Open Virtual Desktop - Administration - Mozilla Firefox" and the address bar shows `http://sm.ulteo.com/sessionmanager/admin/index.php`. The navigation menu is the same as in the previous screenshot. The main content area is divided into several sections:

- Users and Users groups**
 - User list
 - Users groups list
- Servers**
 - Servers list
 - Unregistered servers list
- Configuration**
 - General configuration
- Applications and Appgroups**
 - Application list
 - Application groups list
 - Publication list
 - Publication wizard
- Status**
 - 0 active session
 - 0 online server
 - 0 offline server
 - 0 broken server

The footer of the page reads "powered by Ulteo".

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

3 Application Server installation (aps.ulteo.com)

- If you haven't done it yet for the Session Manager, configure yum to enable the Ulteo rpm repository. Create the file `/etc/yum.repos.d/ovd.repo` with:

```
[ovd-2.5]
name=Ulteo OVD 2.5
baseurl=http://archive.ulteo.com/ulteo/rpm/rhel5/2.5
enabled=1
gpgcheck=1
gpgkey=http://archive.ulteo.com/ulteo/rpm/ulteo-archive.key
```

- Let rpm know about the ulteo signing key by executing the following commands:

```
# wget http://archive.ulteo.com/ulteo/rpm/ulteo-archive.key
# rpm --import ulteo-archive.key
# rm ulteo-archive.key
```

- Install the `ovd-application-server` package:

```
# yum install ovd-application-server
```

- Launch the configuration tool

IMPORTANT

If you are going to install an Application server on the same machine as your Session Manager, it's recommended to use:



- FQDN: 127.0.0.1
- SM URL: <http://127.0.0.1/sessionmanager>

```
# aps-chroot-install
Full Qualified Domain Name [aps.ulteo.com]: aps.ulteo.com
Session Manager URL: http://sm.ulteo.com/sessionmanager
Chroot installation path: /opt/ulteo
```

```
Options:
* FQDN: aps.ulteo.com
* SM URL: http://sm.ulteo.com/sessionmanager
* chroot path: /opt/ulteo
* chroot download: yes
* apache group: apache
* apache dir: /etc/httpd/conf.d
```

```
Is this correct? [Y/n]
```

- Configure and start apache service

```
# chkconfig httpd on
# service httpd restart
```

- Configure and start Ulteo service

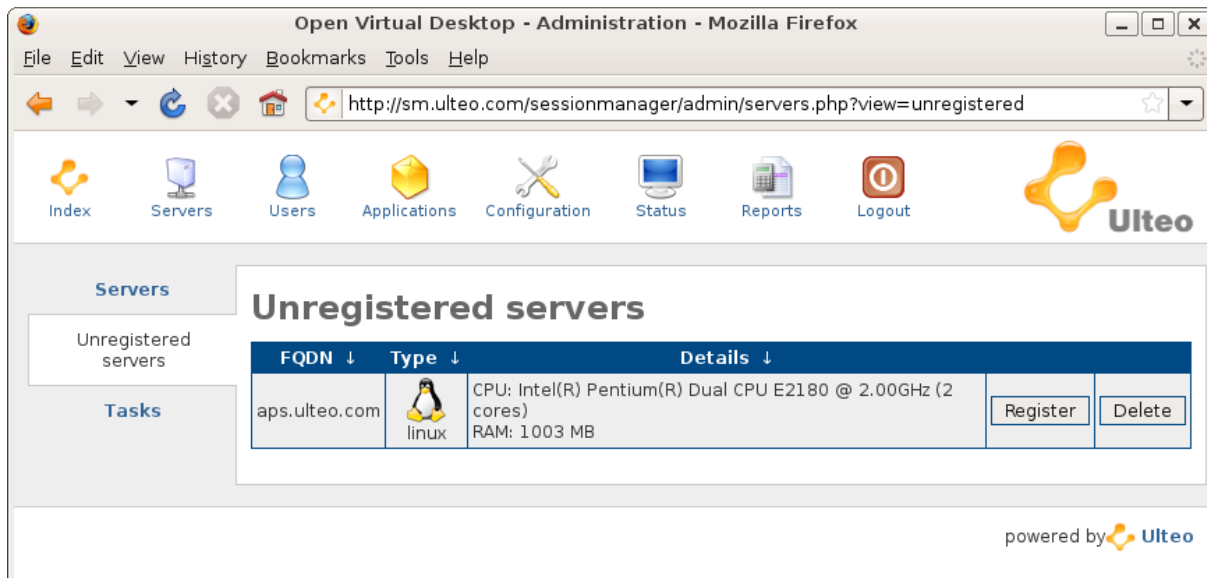
```
# chkconfig ulteo-ovd on
# service ulteo-ovd restart
```

3.1 Configuration

3.1.1 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.

3.1.2 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:

Redirection name of this server:

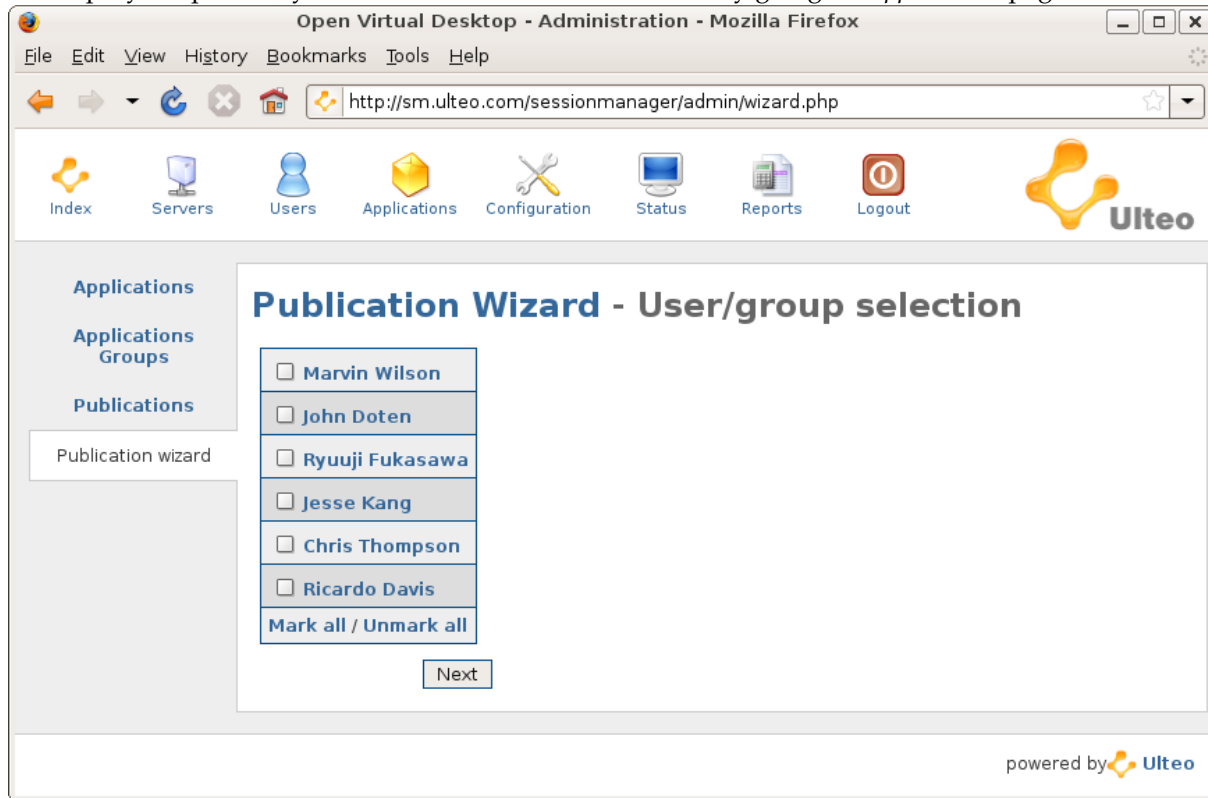
Web port of this server:

4 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.

5 Launch a session

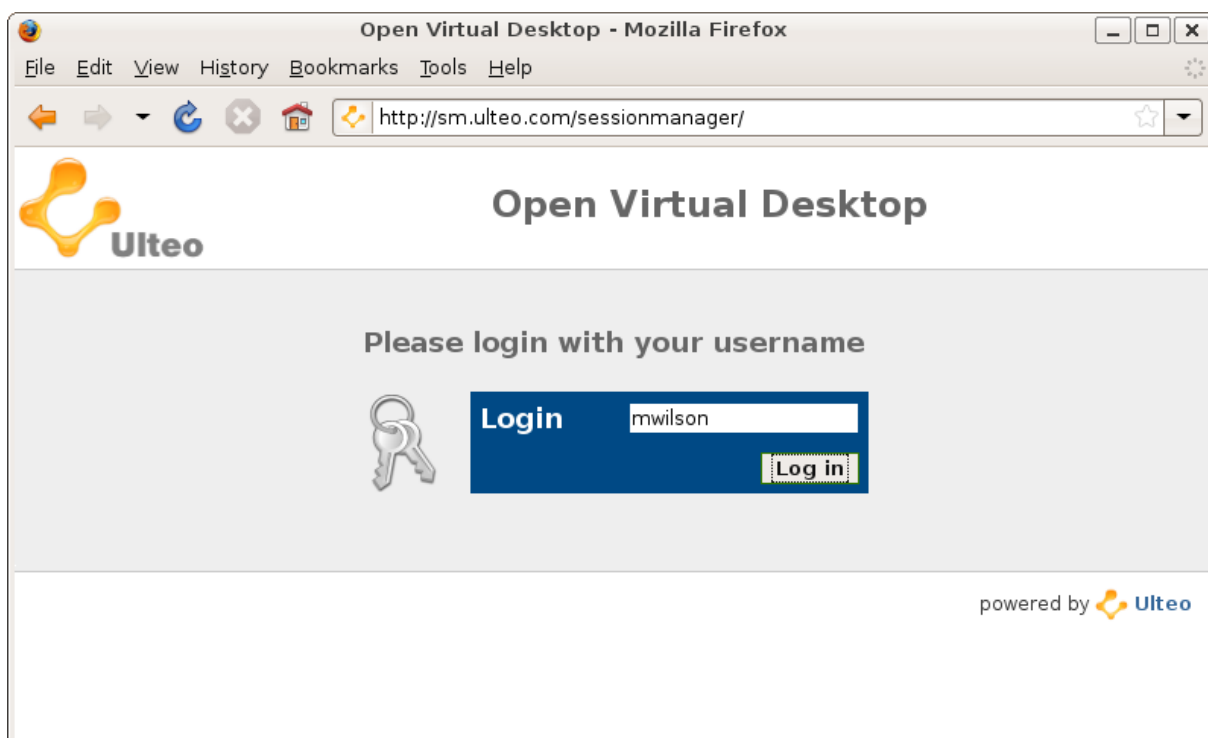
IMPORTANT

Client prerequisites:

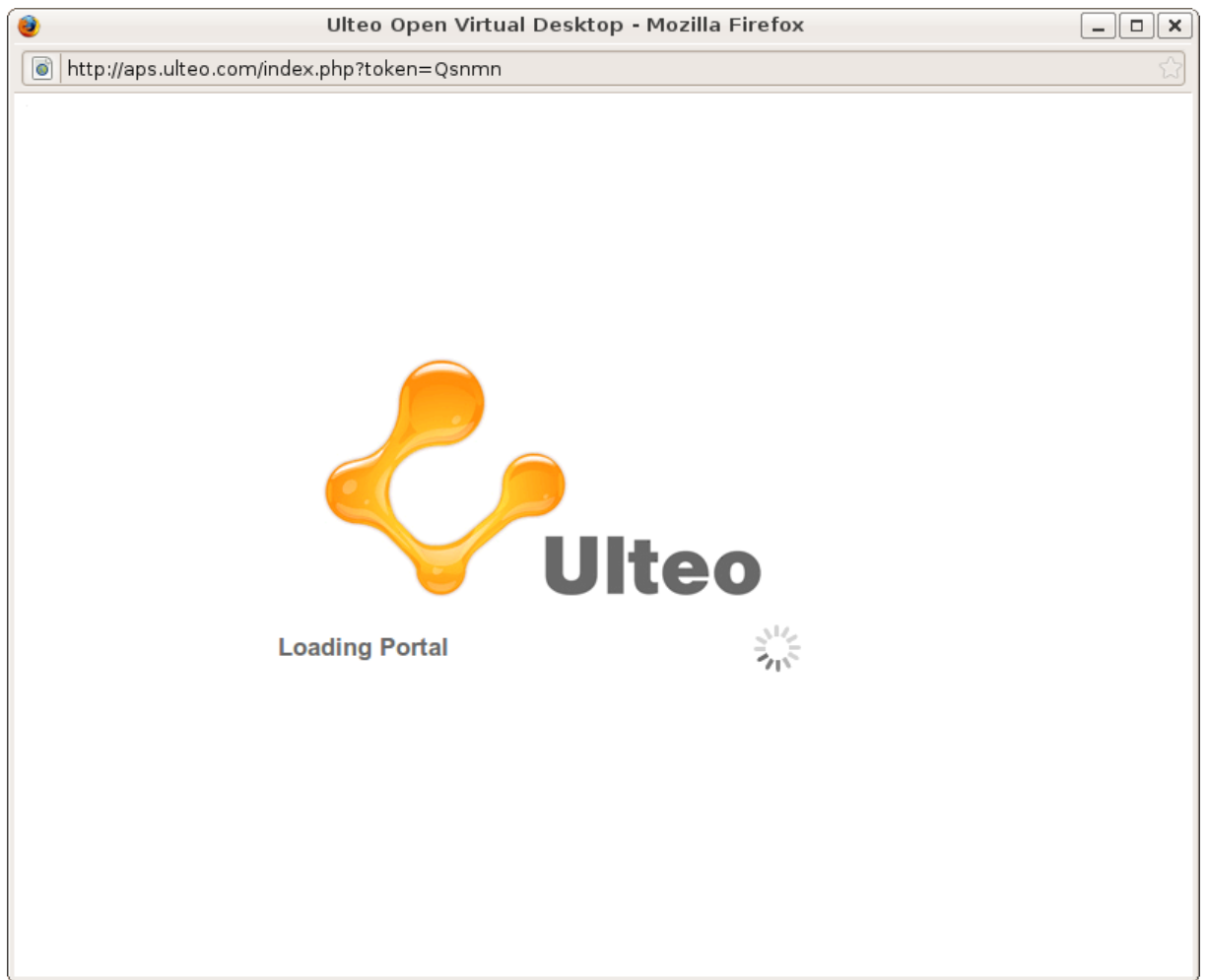


- Java 1.5/1.6 (Sun or OpenJDK)
- browser: Firefox 2+ or Internet Explorer 7+

- 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:

