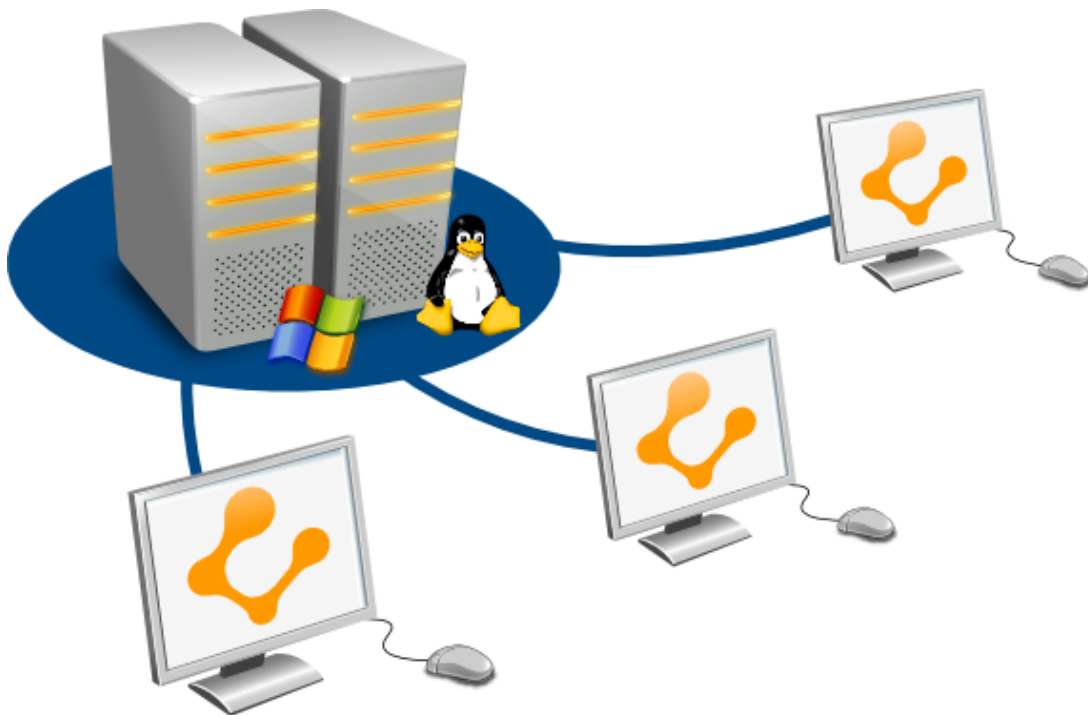


# Ulteo Open Virtual Desktop v3.0

Red Hat Enterprise Linux (RHEL) 5.5 support



## Contents

<b>1 Prerequisites: Red Hat Enterprise Linux (RHEL) 5.5</b>	<b>3</b>
1.1 System requirements . . . . .	3
1.2 SELinux . . . . .	3
<b>2 Repository</b>	<b>5</b>
2.1 Online method . . . . .	5
2.2 Offline Method . . . . .	5
<b>3 Session Manager installation and configuration</b>	<b>6</b>
3.1 Installation of MySQL . . . . .	6
3.2 Package installation . . . . .	6
3.2.1 Configuration . . . . .	7
3.2.2 Setup the subsystem archive . . . . .	9
<b>4 Application Server and File Server installation (using Subsystem)</b>	<b>10</b>
4.1 Set a redirection name . . . . .	10
<b>5 Web Client installation (web.ulteo.com)</b>	<b>12</b>

The purpose of this document is to describe how the different pieces of Ulteo OVD are supported on Red Hat Enterprise Linux (RHEL) 5.5 system.

## 1 Prerequisites: Red Hat Enterprise Linux (RHEL) 5.5

All operation have to be done as super user (root).

### 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 environments: 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



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.

### 1.2 SELinux

Ulteo OVD is not compatible with SELinux yet. So, if you have SELinux installed and enabled on your system, you have to disable it.

To disable SELinux:

- Edit the */etc/selinux/config* file and set the *SELINUX* variable to *disabled*.

```
SELINUX=disabled
```

- Reboot your system

```
# reboot
```

- Check SELinux is now disabled

```
# sestatus  
SELinux status:                disabled
```

## 2 Repository

Red Hat Enterprise Linux (RHEL) 5.5 use the RPM packaging system. So you need to have an internet connexion on your Red Hat Enterprise Linux (RHEL) 5.5 system and add an Ulteo RPM repository into 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.

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

```
[ovd-3.0]
name=Ulteo OVD 3.0
baseurl=http://archive.ulteo.com/ovd/3.0/rhel/5.5/
enabled=1
gpgcheck=1
gpgkey=http://archive.ulteo.com/ovd/keyring
```

### 2.2 Offline Method



The Ulteo OVD offline installation requires that the [Red Hat Enterprise Linux \(RHEL\) 5.5 DVD](#) is registered on the system as a packages repository in order to match package dependencies.

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-rhel-5.5.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-rhel-5.5.tar.gz
```

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

```
[ovd-3.0]
name=Ulteo OVD 3.0 offline
baseurl=file:///root/ovd-3.0-rhel-5.5/
enabled=1
gpgcheck=0
```

### 3 Session Manager installation and configuration

The Session Manager is a LAMP (Linux Apache MySQL PHP) system and can be used on an existing 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* package:

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

- To start automatically MySQL when the system boots up

```
# chkconfig 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 -e 'create database ovd'
```

#### 3.2 Package installation

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

```
# yum install ulteo-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=3.0]:
Chroot destination [/var/cache/ulteo/sessionmanager/base.tar.gz ←
  ]:

Options:
* chroot download: yes
* chroot URI:      http://www.ulteo.com/main/downloads/ulteo- ←
  ovd.php?suite=3.0
```

```
* chroot directory: /var/cache/ulteo/sessionmanager/base.tar.gz
Is this correct? [Y/n]
```



If you don't have access to Internet, please use the following command instead of the previous one:

```
# sm-config --no-download
```

Then, please read this to manually get the subsystem archive.

- Configure and start apache service

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

### 3.2.1 Configuration

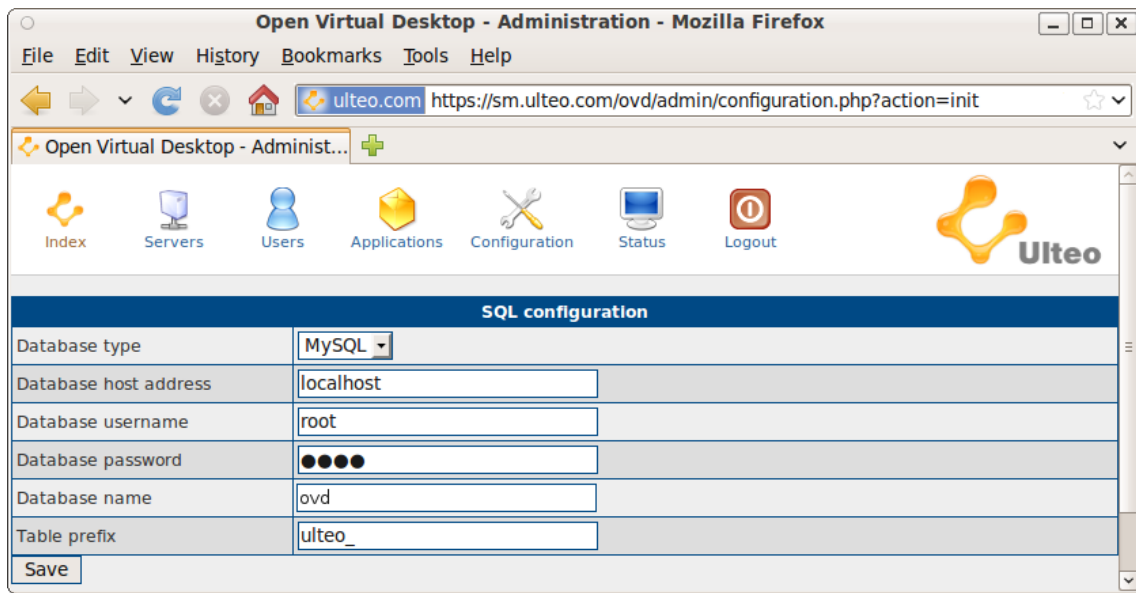
The first step is to go to <http://sm.ulteo.com/ovd/admin> and authenticate yourself with the login and password you provided during installation.



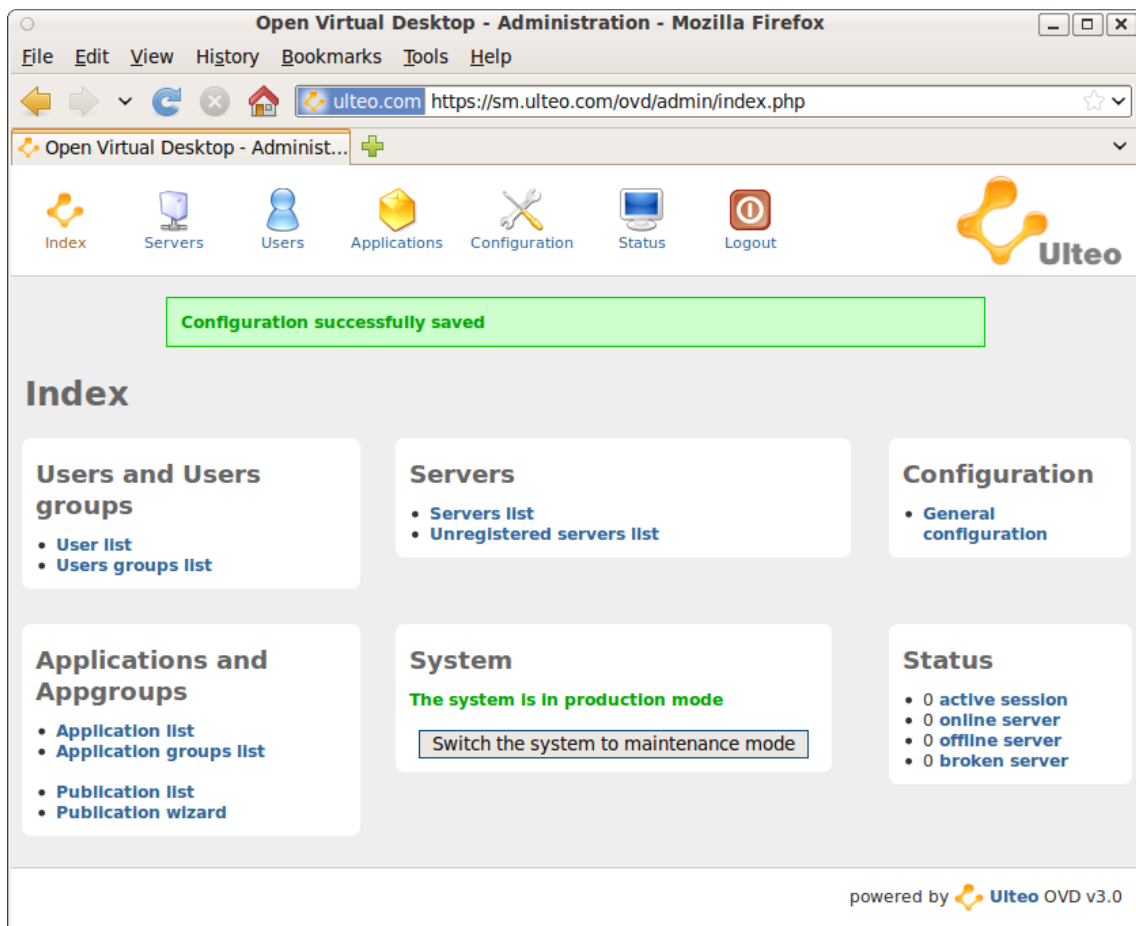
For the first time you log in, the system detects that it is not well configured so you are redirected to a basic setup page which will save a default configuration.

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:



### 3.2.2 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*:

```
# yum install ulteo-ovd-subsystem
```

- Launch the configuration tool

```
# ovd-subsystem-config
Session Manager address : sm.ulteo.com
Chroot destination [/opt/ulteo]:
```

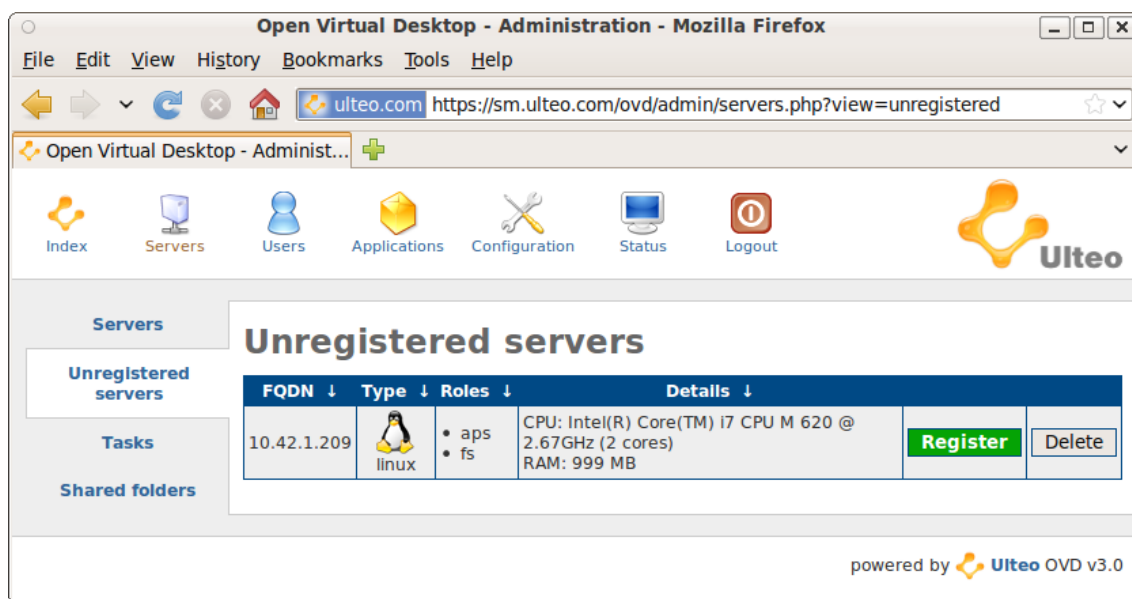


If you are going to install an Application Server on the same machine as your Session Manager, it is recommended to use **127.0.0.1** as host.

- Configure and start the Ulteo service

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

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



FQDN	Type	Roles	Details		
10.42.1.209	linux	aps fs	CPU: Intel(R) Core(TM) i7 CPU M 620 @ 2.67GHz (2 cores) RAM: 999 MB	Register	Delete

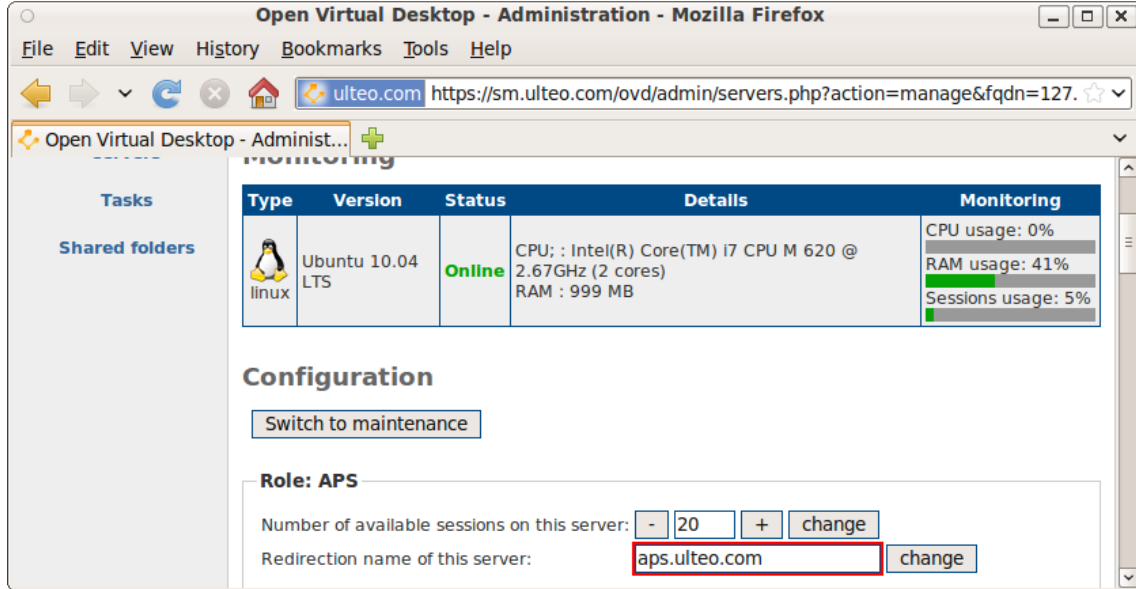
### 4.1 Set a redirection name

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.



Type	Version	Status	Details	Monitoring
linux	Ubuntu 10.04 LTS	Online	CPU; : Intel(R) Core(TM) i7 CPU M 620 @ 2.67GHz (2 cores) RAM : 999 MB	CPU usage: 0% RAM usage: 41% Sessions usage: 5%

**Configuration**

Switch to maintenance

**Role: APS**

Number of available sessions on this server: - 20 + change

Redirection name of this server: aps.ulteo.com change

## 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 packages *ulteo-ovd-web-client* and *ulteo-ovd-web-client-ajaxplorer*:

```
# yum install ulteo-ovd-web-client ulteo-ovd-web-client- ↵  
  ajaxplorer
```

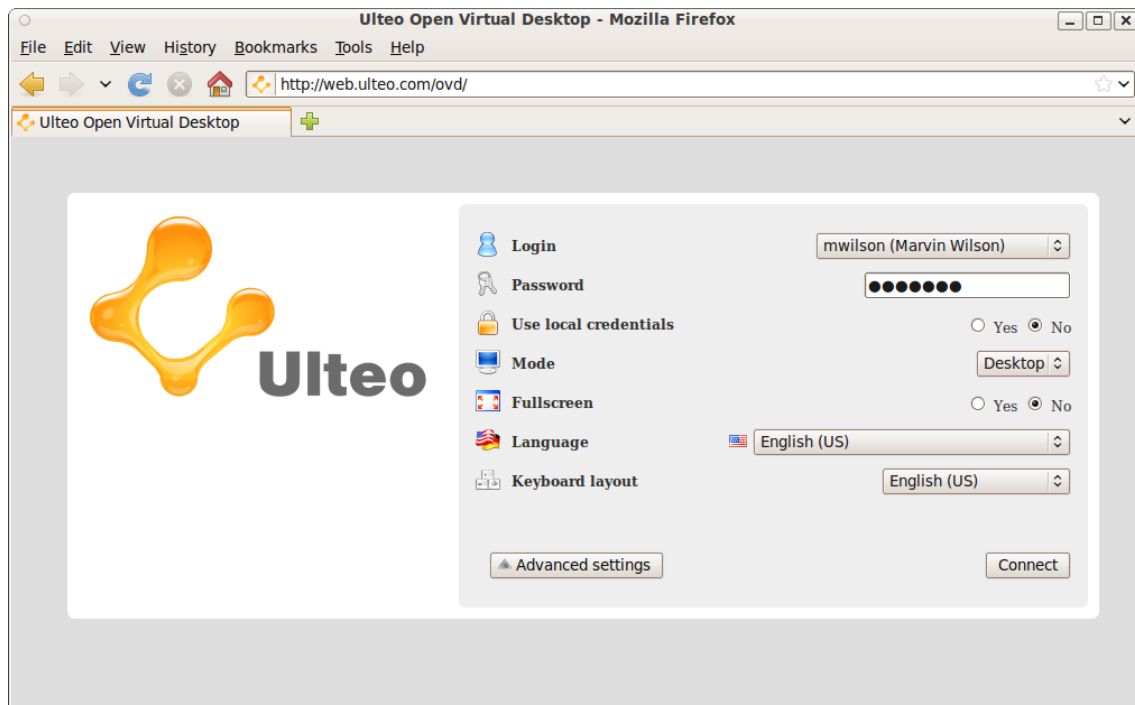
- Launch the configuration tool

```
# ovd-webclient-config  
Do you want to link the web client to a specific Session ↵  
  Manager ? ([yes]/no):  
Session Manager address [127.0.0.1]: sm.ulteo.com
```

- Configure and start apache service

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

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](http://www.ulteo.com).



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