



VISULOX 4

VISULOX4_QuickInstallGuide_OL8

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amitego



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This is a step by step guide to install the VISULOX PORTAL Service, local VISULOX GATEWAY and the VISULOX Service on a **stand-alone server**.

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1 Setup of an Oracle Linux 8 server with basic setup

- The recommended platform is Oracle Linux 8 with at least 10Gbyte for the OS, 20Gbyte for VISULOX PORTAL Service and 30 Gbyte for the VISULOX Service free space on the hard disc (small installation)
- VISULOX can be virtualized, the disk must NOT have "**Thin provisioning**" enabled.
- The **/opt** directory must NOT be mounted with **-nosuid** parameter.
- **umask 022** is recommended for installation and start of the VISULOX PORTAL Service
- **Symbolic links** are not supported
- The users **ttasys** and **ttaserv** have to be placed in the **/home** directory, if created manually before installation.
- The recommended VISULOX version is the latest VISULOX release
- The recommended user repositories are all repositories, that are supported by the VISULOX PORTAL Service
- Firewall configured properly or disabled
- **/etc/hosts** should look like: 127.0.0.1 localhost localhost.localdomain
- NTP **or** Chrony enabled
- For Ports, see: [Network communication within VISULOX](#)

 Make sure that correct hostnames are used for the servers in the environment.
Hostnames **must not** contain underscores (because of RFC 952 and domain names with underscores)!
The FQDN of the host **must not** exceed 50 characters!
Changing hostnames after installation of VISULOX is not supported!
Checking the hostname (must be identical):

```
nslookup $(hostname -f) --> Hostname and IP address is displayed
nslookup <IP address> --> IP address and hostname is displayed

getent ahosts $(/opt/tarantella/bin/bin/ttahostname) --> IP address and hostname is displayed
getent hosts <IP address> --> IP address and hostname is displayed

getent ahost localhost --> IP address is displayed (127.0.0.1)
getent hosts 127.0.0.1 --> IP address (127.0.0.1) and hostname (localhost) is displayed
```

2 Update Oracle Linux 8 and install dependencies

Installing VISULOX 4.x on Linux platforms, the yum / dnf command has to be used to ensure that any package dependencies are resolved automatically.

This means that yum must be configured to use a suitable Linux package repository. Make sure that **oracle_appstream_latest** and **ol8-epel** are in yum repolist as well.

```
dnf repolist
This system is receiving updates from Unbreakable Linux Network or Spacewalk.

repo id                                repo name
ol8-codeready                          ol8-codeready
ol8-epel                                ol8-epel
ol8_addons                              ol8_addons
ol8_appstream_latest                   ol8_appstream_latest
ol8_x86_64                              ol8_x86_64
```

ol8-codeready is needed for transitmapping.

For the Epel repository on Red Hat 8 use:

```
dnf install https://dl.fedoraproject.org/pub/epel/epel-release-latest-8.noarch.rpm
```

```
dnf install java-11-openjdk
dnf update
```

3 Download VISULOX packages

All VISULOX packages can be downloaded from amitego-engineering.

3.1 VISULOX packages

```
mkdir /root/POC  
cd /root/POC
```

Copy all downloaded files to /root/POC

- visulox-rte-1.2.0-1.el8.x86_64.rpm
- visulox-4.3.2-1.el8.x86_64.rpm
- visulox-portal-4.3.2-1.el8.x86_64.rpm
- visulox-gateway-4.3.2-1.el8.x86_64.rpm

4 Installation

4.1 VISULOX RTE and VISULOX Service 4.x

```
cd /root/POC
dnf install visulox-rte-1.2.0-1.el8.x86_64.rpm
dnf install visulox-4.3.2-1.el8.x86_64.rpm
```

4.2 VISULOX PORTAL Service and VISULOX GATEWAY

```
dnf install visulox-portal-4.3.2-1.el8.x86_64.rpm
dnf install visulox-gateway-4.3.2-1.el8.x86_64.rpm
```

```
visulox-portal start
```

4.3 Configure local VISULOX GATEWAY

```
visulox-portal stop
```

```
visulox-portal discover gateway --local
```

```
visulox-portal start
visulox-gateway start
```

 On external VISULOX Gateways, use the following command to add the VISULOX Portal Array:

```
visulox-gateway server add-array --name osgd --serverurl <https://fqdn of the primary portal server>
```

The server URL has to be used only, without ".../sgd/" at the end.

i After setup of the VISULOX Gateway, the load balancer probing template file is available.
(See also: [How to create a feedback page for Load Balancers in the VISULOX GATEWAY configuration](#))

4.4 Attach VISULOX Service and start

```
visulox portal attach
```

```
visulox start
```

```
visulox status
```

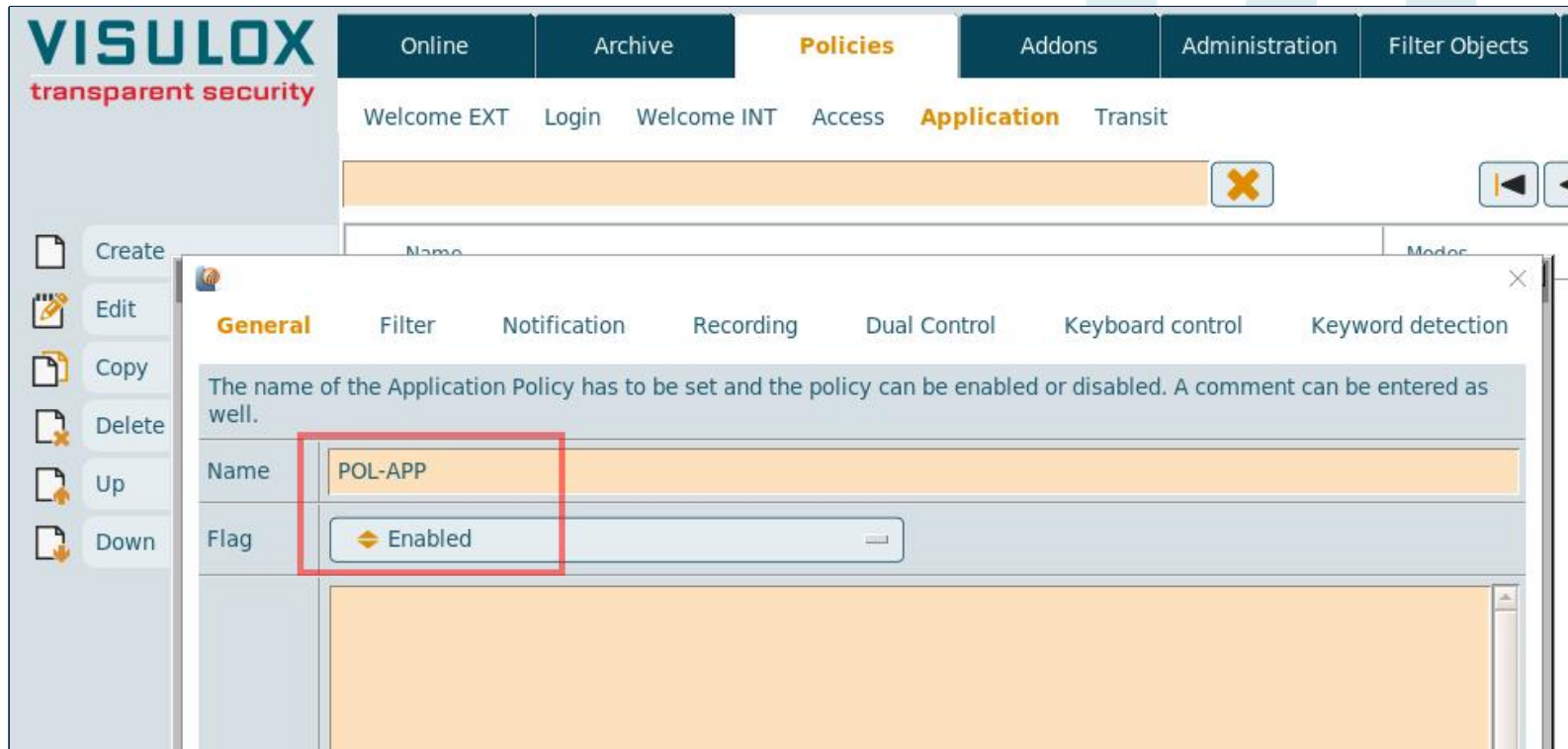
```
visulox integrity
```

5 Done / first steps

Login to your server (<https://<full qualified domain name>>) as administrator with root password. Launch "**VLX Cockpit (all)**" from the Workspace.

In the VISULOX Cockpit go to Policies / Application Policy and configure "**VLX Jump Shell**" for recording:

Choose "**Create**":



Change to the "**Filter**" tab and choose "**Compose**" for applications. Select "**VLX Jump Shell**" from the list and "**Add**". Then "**Save**":

VISULOX
transparent security

Online Archive **Policies** Addons Administration Filter Objects

Welcome EXT Login Welcome INT Access **Application** Transit

Create Edit Copy Delete Up Down

General **Filter** Notification Recording Dual Control Keyboard control Keyword detection

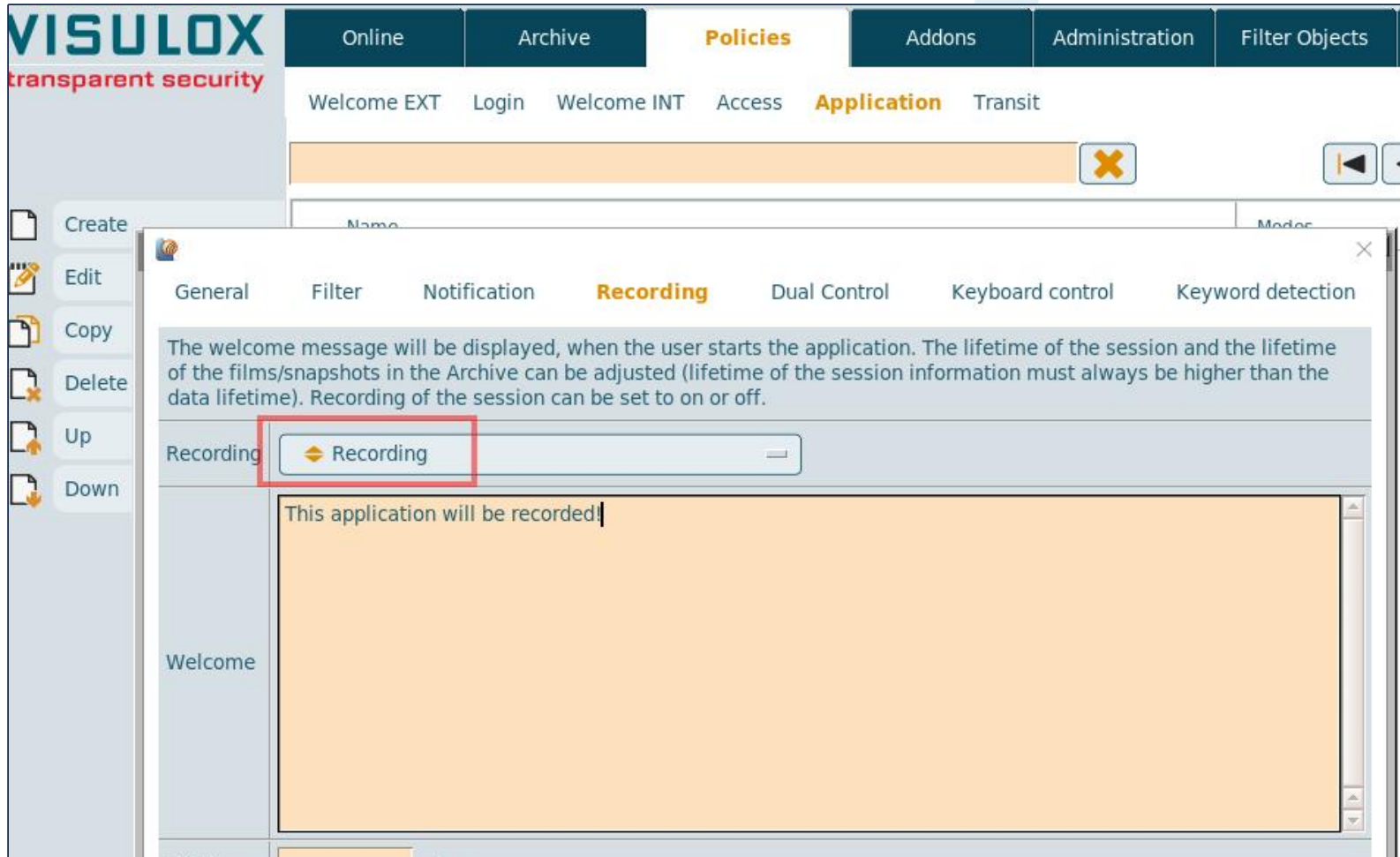
The Application Policy is based on users/groups, the application, the Remote IP address and/or the access point.

Application group			Compose
User / group	0		Compose
Application	1	VLX JUMP SHELL	Compose
Remote IP	0		Compose
Access point	0		Compose

Help / Tooltip Details Save Cancel

Change to the "Recording" tab and enable recording by choosing "Recording enabled".

A comment can be written as seen in the example.





Launch the **VLX Jump Shell** application from the Workspace.

6 More steps

Use the **VISULOX PORTAL Console** to change other applications e.g. from "**Client Window Management Mode**" to "**Independent Window**" and add a window manager.

Add a new X11 application and use **vlxUnix.exp** as connection script.


Add a Windows application and use **vlxWindows.exp** as connection script.

Modify the command line to an available RDP Server in your network for **VLX RDP**. Launch VLX RDP and open the file explorer.

Go to drive E and place a file there. Go to your **Workspace** and expand the **VISULOX Transit Area**.

The file can be seen in the **Transit Zone**. Upload a file and it will be seen in your Windows session below E:\checked .

Checkout in **VISULOX Cockpit / Archive** what happens on the system.

 For more detailed information about VISULOX, please refer to the full documentation or contact support@amitego.com.