

# Installation & Configuration

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## Introduction

The version 8 packager is a new concept for packaging, unlike previous versions the v8 packager is a Just in Time (JIT) packager. This means that the packager only starts to provide a packaged output when requested. The packager is recording all of the time, and the recorder process records incoming ABR streams as a dash style TS mezzanine format.

## Minimum Specification

This is the minimum hardware specification for a server (or VM) running the Packaging v8.

```
MFVP application CPU RAM memory Disk
MFVP Packaging Two E5-2660 v3 Intel
CPUs (2.2GHz) with
memory interleaving
and CPU Hyper
threading options
enabled
64GB 80GB HDD
```

## Operating System

For the Packager v8, CentOS is still in the v6.x thread. If you have anything higher, the application will refuse to install.

```
MFVP application Operating System
MFVP Packaging Linux CentOS and RedHat 6.5 and higher
releases of 6.x baseline up to 6.7
```

## NTP

The Packager must be time synchronised with an NTP source, the same source that is time synchronising the MFEL. More information on NTP configuration is given below in the installation notes.

## Network Configuration

The host network configuration is set-up including:

- IP configuration of network adapters
- Network Interface bounding when necessary
- Specific routes when necessary (example: multicast, ip route add 239.2.3.202 via "ip\_address")

This is critical, failure to do this will result in no input multicasts.

**NOTE** In case of distributed deployment, all the network interface names must be the same on all the servers for each subnetwork.

## Overview

The MFVP Packaging product provides the capability to produce DVR and VOD assets.

Depending on your equipment and needs, MFVP Packaging can be deployed in a standalone mode or in a distributed mode.

In a standalone deployment mode, each MFVP Packaging server manages its own DVR and Vod assets and UI. If two MFVP Packaging servers are installed in a standalone mode in your environment, they will be managed separately and won't be able to share data.

The distributed deployment mode allows you to set up a large quantity of MFVP Packaging servers in your environment and to control all of your DVR and Vod assets through any host on MFVP Packaging has been installed.

All the MFVP Packaging servers that belong to the distributed environment must have:

- time synchronized on the same NTP.
- port 27017 opened in each server firewall.

## Installation

### Install the OS

For this product, we are assuming the standard CentOS minimal installation has been used. Please ensure that automatic updates are not enabled. This is for two reasons:

1. The product won't randomly reboot due to an update being applied
2. The produce won't be upgraded past the v6.7 cut off (if you upgrade 6.x, you will end up with v6.9, this won't work with the packager installer).

### Configure Network

After installing the OS we need to configure the network. I am using a G6, and am using the following interfaces:

```
eth0 - Management
eth2 - Ingest
eth4 - Output
```

The networking files can be found at [/etc/sysconfig/network-scripts/](#) and are called:

```
Ifcfg-eth0, ifcfg-eth2 and ifcfg-eth4
```

For eth0 the following settings should be applied: (using your own IP details of course).

```
DEVICE="eth0"
BOOTPROTO=none
IPV6INIT=no
NM_CONTROLLED=no
ONBOOT="yes"
TYPE="Ethernet"
IPADDR=192.168.27.100
NETMASK=255.255.255.0
GATEWAY=192.168.27.254
PERSISTENT_DHCLIENT=yes
DNS1=137.58.71.251
DNS2=8.8.8.8
```

If you are specifying the gateway and DNS here, please check that there is **not any conflicting settings** in [/etc/resolv.conf](#).

For eth2 and eth4 you can use the following example.

```
DEVICE=eth2
TYPE=Ethernet
ONBOOT=yes
NM_CONTROLLED=no
BOOTPROTO=static
PERSISTENT_DHCLIENT=yes
IPADDR=11.0.100.1
NETMASK=255.0.0.0
```

## Install the MF Packaging software

This assumes that you have copied the relevant installation package to the server.

To install the MFVP Packaging RPMs on the standalone server; enter the following commands:

```
tar -xvf Eri-mfvp-packaging-v.x.y.z.el6.x86_64.tar.gz
cd Eri-mfvp-packaging-v.x.y.z.el6.x86_64
./install.sh --standalone
```

Once the installation is completed and successfully processed, your MFVP Packaging server is ready for use.

To check the installation and access your MFVP Packaging server user interface, open a web browser from a computer that has a network access to your server and enter the following address: [http:// \[LocalIPServer\]:8080](http://[LocalIPServer]:8080)

By default, the configuration is automatically done by the install.sh with the following values:

- LocalIP: first IP found (excluding 127.0.0.1)
- serverID: standalone

To change these values, proceed with the following configuration step.

## Configure MFVP Packaging on the server

To configure the standalone server, enter the following commands:

```
# /opt/mfvp/packaging/setup/configure.sh --localIP X.X.X.X --serverID XX
• localIP:x.x.x.x corresponds to the management IP address for this server.\\
• serverID=xx: xx corresponds to your Server ID for this server (example: packaging_01). The server ID
is used as the server name in the user interface. Default value is standalone.
```

For my server, I would use something like:

```
# /opt/mfvp/packaging/setup/configure.sh --localIP 192.168.27.50 --serverID Pkg01
```

Once the installation is completed and successfully processed, your MFVP Packaging server is ready for use.

Test the server by navigating your browser to <http://localhost:8080>

## NTP Settings

The time source of the Packager, and the Encoder producing the ABR output should be from the same source. Failure to properly time synchronise can result in the packager discarding data that is 'outside' sync times.

### Configure TimeZone

Remove the local time file, in case it contains incorrect settings:

```
rm /etc/localtime
```

Now re-create the local time file using UTC time.

```
ln -s /usr/share/zoneinfo/UTC /etc/localtime
```

## Configure NTP

Define the ntp server you wish to use in the ntp.conf file.

```
vi /etc/ntp.conf
```

Add your ntp server to the server list, as below

```
# Use public servers from the pool.ntp.org project.  
# Please consider joining the pool (http://www.pool.ntp.org/join.html). server 137.58.71.251 iburst  
# server 0.centos.pool.ntp.org iburst  
# server 1.centos.pool.ntp.org iburst  
# server 2.centos.pool.ntp.org iburst  
# server 3.centos.pool.ntp.org iburst
```

Save the file and exit (:wq)

Stop the NTP daemon

```
service ntpd stop
```

Force the synchronisation with the NTP server

```
ntpdate 137.58.71.251
```

Restart the ntp daemon

```
service ntpd restart
```

Verify the ntp synchronization

```
ntpstat
```

It should return "synchronized, as below:

```
synchronised to NTP server (188.39.213.7) at stratum 2  
time correct to within 48 ms  
polling server every 1024 s
```

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