QA7 and LVA7 for Docker Installation Guide

Linux Version

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Hardware requirement

The minimum hardware requirement is:

- CPU: x86_64 (Intel/AMD 64 BIT)
- RAM: 2GB

The key questions before installing Nemesysco Services

The key questions to ask yourself before installing Nemesysco Services are:

1. Can I run commands as root?
2. Do I use one of the listed distributions (Ubuntu, Debian, CentOS)?
3. Do I already run a web-server?

Question 1: Can I run commands as root? (administrator)

The installer will need to be able to run commands as administrator for two reasons:

- potentially to install docker and XAMPP (if they are needed)
- to install the QA7 or LVA7 site

In other words, if following command works:

```
sudo echo hello
```

Then you have admin privileges.
If you can't run that command, you should use a user with admin privileges OR root.

Question 2: Do I use one of following distributions?

Ubuntu, version 16.04, 18.04, 20.04, 20.10 and 21.04
This includes the member of Ubuntu family, like:
Kubuntu Ubuntu Kylin, Xubuntu, Lubuntu, Ubuntu Mate, Ubuntu Budge, Ubuntu Studio, Ubuntu Server, ...
And also some Ubuntu based distributions.

Debian: version 10 and 11
And also some Debian based distributions, like: Q4OS

Centos 7 or 8

If the answer is YES, then it makes your life easier, since the installer can automatically install :

- Docker, if it is not already installed
- And the web server XAMP (from https://www.apachefriends.org/index.html), can be automatically installed

If the answer is NO, then the installer cannot install and configure Docker and the Web server automatically. You need to check the instructions for your distribution on how to install both.
A web server (any web server that can works with PHP will work), and how to install docker.

Question 3: Is a web server already installed on your computer?

NO: You don't have a web server installed!

It is the easiest case.

To install QA7:

- To decompress the installer, you can run:
  unzip nms_installer-*.zip
  - The '*' is placeholder for the respective version of the installer.
  - you may need to install the software "unzip"
    or you can copy the files already decompressed

- go inside the subdirectory **nms_installer**:
  cd nms_installer

- Run the installer:
  bash ./nms_installer.sh app=QA7 xampp docker

- After the installation, you can access the services by opening your web browser and look at the site: http://127.0.0.1/QA7

- The files are in /opt/lampp/htdocs/QA7

To install LVA7:

- decompress the installer: unzip nms_installer-*.zip
  - you may need to install unzip
  - or you can copy the files already decompressed

- go to inside of the subdirectory **nms_installer** :
  cd nms_installer

- Run the installer:
  bash ./nms_installer.sh app=LVA7 xampp docker

- After the installation, you can access the services by opening your web browser and look at the site: http://127.0.0.1/LVA7

- The files are in /opt/lampp/htdocs/LVA7

YES: You already have a web server Installed!

Then the installer needs one path and one URL:
The **root_path**, is the web-server's Document Root. The Document Root is the folder where the files for a domain name are stored
The **site_url**, is the domain of your site (http://mysite.com) or its IP (http://127.0.0.1).
You can also use sub-directories of the root_path, as long as you use the same subdirectory for the url:

For example:

- Document Root : /var/html/www/
- Domain name: http://mysite.com
- root_path = /var/html/www/services/
- site_url = http://mysite.com/services

the command to install QA7, you will need to run:

```
bash ./nms_installer.sh  app=QA7  docker  url=http://mysite.com/services  path=/var/html/www/services/
```

to command to install LVA7 is:

```
bash ./nms_installer.sh  app=LVA7  docker  url=http://mysite.com/services  path=/var/html/www/services/
```

So let's get into the detail...

To install QA7:

- To decompress the installer, you can run:
  unzip nms_install-*.zip
  - The '*' is placeholder for the respective version of the installer.
  - you may need to install the software "unzip"
    or you can copy the files already decompressed

- go inside the subdirectory **nms_installer**:
  cd nms_installer

- You check your web server and:

  - Your domain is http://mysite.com

  - and the Document Root, and for your web-server it is /var/www/html

  - Now if you want to add LVA7 in the subdirectory 'apps', then you will need to run the installer with 'url' and 'path' variables set as follow:

    - path=/var/www/html/apps/

    - url=http://mysite.com/apps/

- Run the installer:
  bash ./nms_installer.sh app=QA7 docker url=http://mysite.com/apps/ path=/var/html/www/apps/

- After the installation, you can access the services by opening your web browser and look at the site: http://mysite.com/apps/QA7

- The files are in /opt/lampp/htdocs/QA7

- You can access to the services by using your web browser to access http://127.0.0.1/QA7

To install LVA7:

- decompress the installer: unzip nms_installer-*.zip
  - you may need to install unzip
  - or you can copy the files already decompressed

- go to inside of the subdirectory **nms_installer** :
  cd nms_installer

- You check your web server and:

  - Your domain is http://mysite.com

  - and the Document Root, and for your web-server it is /var/www/html

  - Now if you want to add QA7 in the subdirectory 'apps', then you will need to run the installer with 'url' and 'path' variables set as follow:

    - path=/var/www/html/apps/

    - url=http://mysite.com/apps/

- Run the installer:
  bash ./nms_installer.sh app=LVA7 docker url=http://mysite.com/apps/ path=/var/html/www/apps/

- After the installation, you can access the services by opening your web browser and look at the site: http://mysite.com/apps/LVA7

- The files are in /var/html/www/apps/LVA7

The paramers of the installers

The installer application has three formats of instructions.

- Help format
- Default web server format
- User web server format

Help Format

This is what you run when you want to get the help for the installer:

bash ./nms_installer.sh

The installer answer to this command with the detail of the different parameters

Default web server format

This command is used when you want to install the default web server (only on supported distributions), when a web server is not installed yet.
The command has for form:

bash ./nms_installer.sh app=MyAPP xampp [docker]

Where:

- app=MyAPP indicating which application you want to install.
  app=QA7 : to install QA7
  app=LVA7 : to install LVA7
- xampp : indicating that you want to the default web server
- docker : is optional.
  If present, it will install Docker, but only if Docker is not already installed:
  bash ./nms_installer.sh app=QA7 xampp docker
  If absent, it will not install Docker:
  bash ./nms_installer.sh app=QA7 xampp

User web server format

This is the format to you when you already have a web server.
The command has the form:

bash ./nms_installer.sh app=MyAPP url=MyURL path=MyPATH [docker]

Where:

- app=MyAPP indicating which application you want to install.
  app=QA7 : to install QA7
  app=LVA7 : to install LVA7
- url=MyURL : MyURL is the url where the application will be installed

- path=MyPATH: MyPath is the path on the disk where the application will be installed
- docker : is optional.
  If present, it will install Docker, but only if Docker is not already installed:
  bash ./nms_installer.sh app=QA7 xampp docker
  If absent, it will not install Docker:
  bash ./nms_installer.sh app=QA7 xampp

Example: Installing both QA7 and LVA7

As an example, we'll take the case were:

- you have one of the listed distribution, like Ubuntu 20.04 or Centos 7
- no web-server is install on your computer
- you want to install both QA7 and LVA7

First we need to unzip the installer and go to the installer directory:

```
unzip nms_install-*.zip
cd nms_installer
```

Next we'll install LVA7 (we could install QA7 instead, it doesn't matter).
We need to install three things:

1. a web server (XAMPP)
2. docker
3. and LVA7

All this can be done by a single command:

```
bash ./nms_installer.sh app=LVA7 xampp docker
```

After five minutes (it will depends on the speed of your computer and of your internet), everything will be running.
Now you want to install QA7.
A web server is already installed. So you need to give to the installer the path to the Document Root and the URL.
For XAMPP (on Linux), it will be:

- Document Root = /opt/lampp/htdocs
- URL = http://127.0.0.1/

So to install QA7, you need to run:

```
bash ./nms_installer.sh app=QA7 docker url=http://127.0.0.1/ path=/opt/lampp/htdocs/
```

After a few minutes, QA7 will be installed too.

You will be able to access LVA7 by your browser at the addres: http://127.0.0.1/LVA7
and you will be able to access QA7, at the addres: http://127.0.0.1/QA7

Docker reset script:

The installation script generates the file/s:

- QA7_reset.sh when you install QA7
- LVA7 _reset.sh when you install LVA7

There are 3 different reasons for this script:

1. The first is the need to have a script to start lva7/qa7 docker instance
2. The second reason is that there are situations where the current instant needs to be deleted and new instance needs to be created.
3. The third is that you may have a reason to modify some parameters of the instance to better suite your docker implementation. In that case, the easiest approach is to modify this script to suite your needs.

You should note that:

1. This process deleted the current docker instance. The current license is lost and the new instance created does not have one.

THIS IS WHY THIS SCRIPT SHOULD NOT BE RUN UNLESS ADVISED AND COORDINATED BY NEMESYSCO

2. It advised to save this script in a safe place in case you will need it in the future.

Getting Started

Now that QA7 / LVA7 service is installed, we can starts the first step to analyze your first file.

Step 1: Get to the site

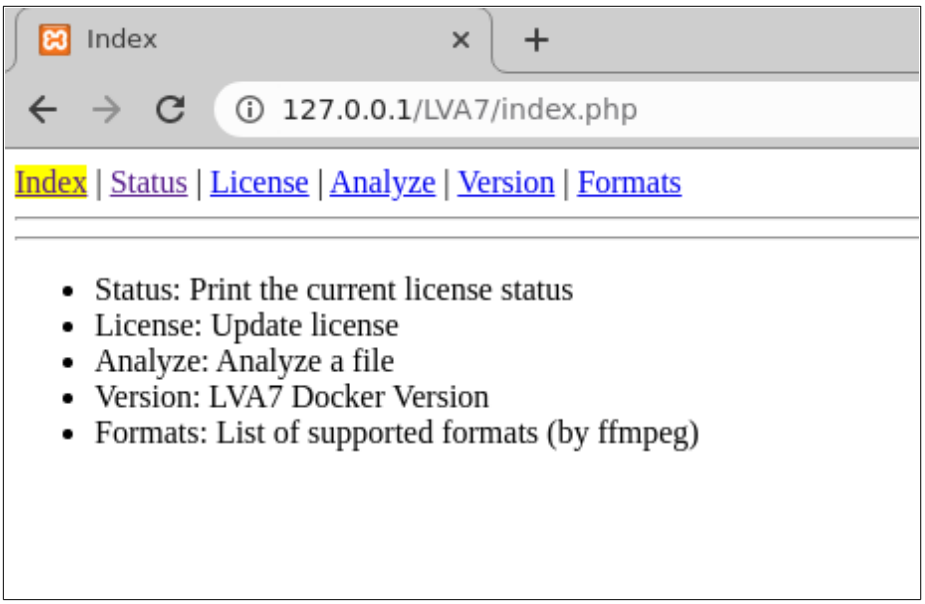
You need to open your web browser, and open the URL defined by your installation.

If you have used the installer to install XAMPP (the case were you didn't have a web server):

- If you have installed QA7, then you need to go to http://127.0.0.1/QA7
- if you have installed LVA7, then you need to go to http://127.0.0.1/LVA7

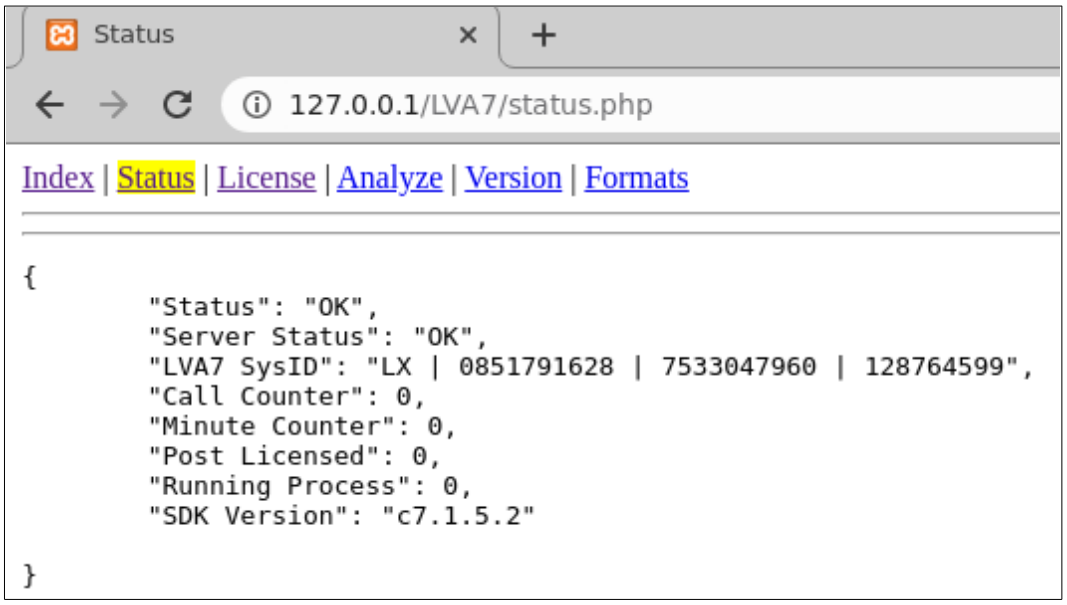
If you already had a web server, then the address is defined by the url variable of the installer. If you have set url=http://mysite.com/apps/
Then:

- if you have installed QA7, then you need to go to http://mysite.com/apps/QA7
- if you have installed LVA7, then you need to go to http://mysite.com/apps/LVA7



Step 2: Get to the Status Page

Click on the “Status” Link on the top bar, to go to the Status page.



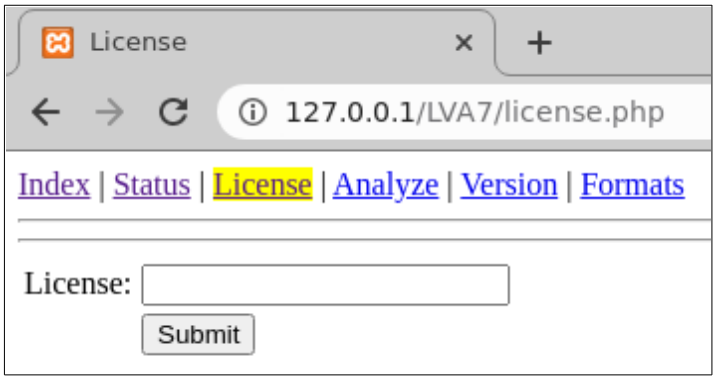
At this stage, the most important information is the **SysID**. The **SysID** is the unique identifier of your instance. It is used to generate the license.

To generate the license you need to

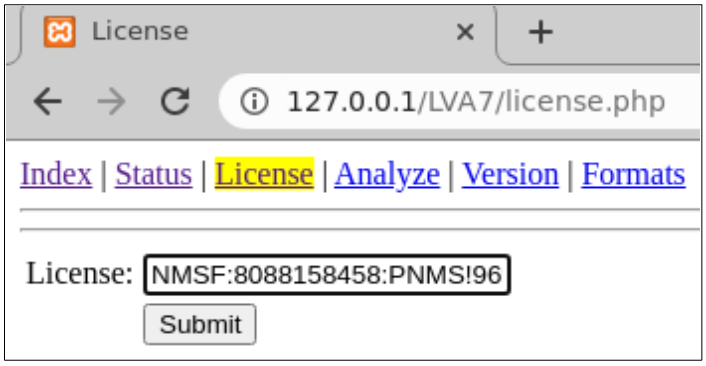
1. Talk with Nemesysco to determine which license you need
2. Send by email your SysID
   Your mail to Nemesysco, should contains the full line. In the case above, it would be:
   "LVA7 SysID": "LX | 0851791628 | 7533047960 | 128764599",
3. You will receive the license by Email

Step 3: Enter the license

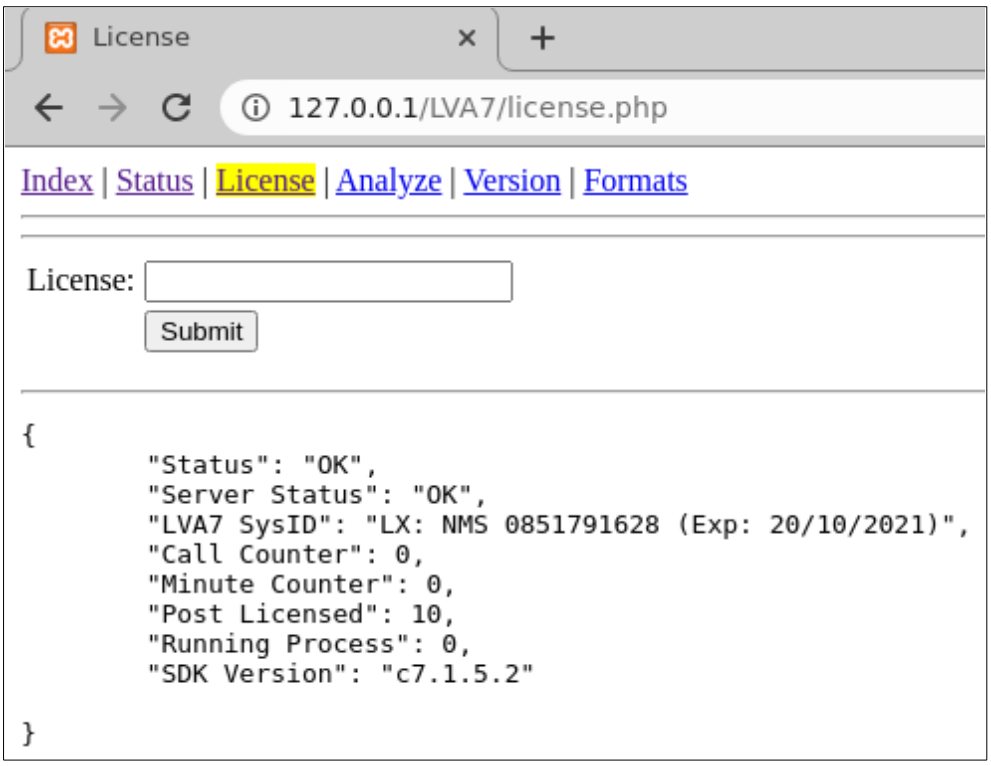
Click on the “License” Link on the top bar, to go to the License page.



Enter the license you received from Nemesysco,



and click submit.



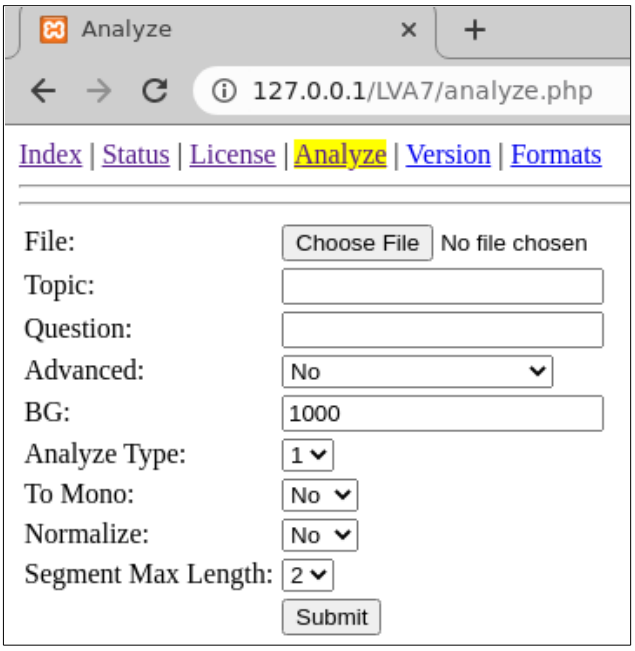
Now your instance is ready for work.

The last thing to do is to analyze your first file.

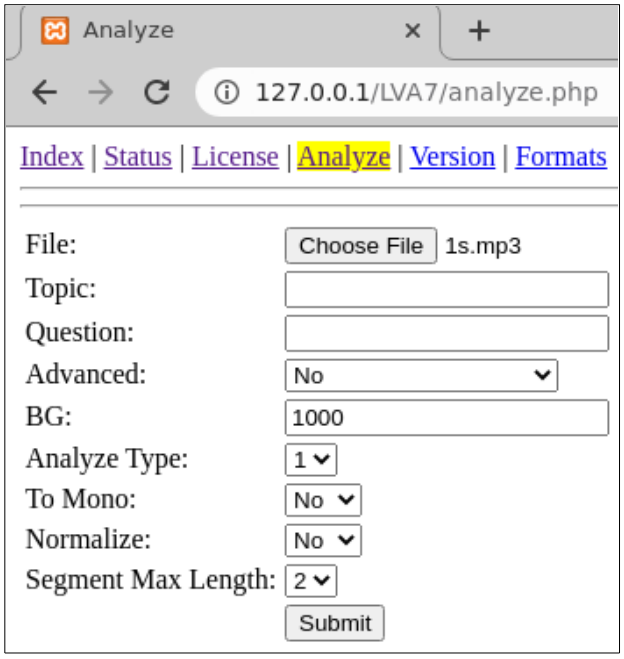
Step 4: Analyze a file

Analyzing a file is important to check that the installation works and that everything functions as it should.

Click on the “Analyze” Link on the top bar, to go to the Analyze page.



Click on “Choose File” to select the audio file you want to analyze



And click “Submit”. After an instant (it depends on the length of the file), you will get the result of the analyze.

For the file I analyzed, the resulting page starts with (this is only the start, the complete page is very long):