

CFD-ACE+ Installation

V2023.0

(주)경원이앤씨

Software 설치

- V2023 Install 방법 (관리자 권한으로 실행)

Supported Platforms

ACE+ SUITE V2023.0 is supported on the following platforms:

Platform	Package Canonical Name
Windows 10 on Intel or AMD (64-bit)	windows-x64-intel19-msvc142-md
Linux RedHat Enterprise 7+ on Intel or AMD (64-bit)	linux-x64-intel19-glibc2.17
Linux RedHat Enterprise 8+ on Intel or AMD (64-bit)	linux-x64-intel19-glibc2.28



- ACE+ SUITE is not supported on 32-bit platforms (Windows or Linux).
- If you are not using installers provided by , make sure that you have the right directory structure.

1. 설치파일 위치에서 권한 변경 후 Install.com 실행

→ 설치파일 : ACE+Suite_V2023.0_Linux_x64-glibc2.17

`chmod755 ./install.com`

`./install.com`

- V2023 Install 방법 (관리자 권한으로 실행)

2. 설치를 원하는 항목 선택

각 소프트웨어들의 설치여부를 물을 때 설치하고자 한다면 “y”를 선택.

Ex) Install CFD-ACE-GUI? [y/n]

```
[root@kwenc ACE+Suite_V2023.0_Linux_x64-glibc2.17]# chmod 755 ./install.com
[root@kwenc ACE+Suite_V2023.0_Linux_x64-glibc2.17]# ./install.com
```

```
*****
ACE Suite Software Installation
*****
Please consult the
Getting Started Guide
for detailed instructions.
*****
```

```
Installing packages for the linux-x64-intel19-glibc2.17 platform
```

```
Checking for available ACE Suite software products... ok
```

```
Install CFD-ACE-GUI? [y/n]      y
Install CFD-ACE-SOLVER? [y/n]   y
Install CFD-FASTRAN-GUI? [y/n] y
Install CFD-FASTRAN-SOLVER? [y/n] y
Install CFD-GEOM? [y/n]        y
Install CFD-TOPO-GUI? [y/n]    y
Install CFD-TOPO-SOLVER? [y/n] y
Install CFD-VIEW? [y/n]        y
Install CFD-VisCART? [y/n]     y
Install SimManager? [y/n]     y
Install Utils? [y/n]          y
```

- V2023 Install 방법 (관리자 권한으로 실행)

3. 설치 위치 지정

/usr/local/KWENC

Is this ok? [y/n] **y**

```
Package(s) will be installed in directory:
/home/kwenc/software/2023/ACE+Suite_V2023.0_Linux_x64-glibc2.17/ACE+Suite
Is this ok? [y/n] n
Please enter the desired installation directory
> /usr/local/KWENC
Package(s) will be installed in directory:
/usr/local/KWENC/ACE+Suite
Is this ok? [y/n] y
```

- V2023 Install 방법 (관리자 권한으로 실행)

4. 설치 위치 지정

/user/local/KWENC

Is this ok? [y/n] **y**

5. 선택한 Software package를 차례대로 설치 진행

```
-----
VISCONT_2023.0 Installation Complete
-----

-----
Installing SIMMANAGER_2023.0 Package
-----

Getting local operating system... Linux 3.10.0-1160.90.1.el7.x86_64
Checking for GNU gzip program... ok
Checking for valid package file... ok
Extracting temporary installation file... ok
Uncompressing installation file... ok
Extracting gnutar executable... ok
Unpacking installation file... ok
Deleting temporary installation file... ok

-----
SIMMANAGER_2023.0 Installation Complete
-----

-----
Installing UTILS_2023.0 Package
-----

Getting local operating system... Linux 3.10.0-1160.90.1.el7.x86_64
Checking for GNU gzip program... ok
Checking for valid package file... ok
Extracting temporary installation file... ok
Uncompressing installation file... ok
Extracting gnutar executable... ok
Unpacking installation file... ok
Deleting temporary installation file... ok

-----
UTILS_2023.0 Installation Complete
-----
```

- V2023 Install 방법 (관리자 권한으로 실행)

6. AFS 또는 NFS에서 Software 를 사용하지 않는다면, "n"로 선택

Will end-users be using either AFS or NFS (network file systems) to access the software

(if you don't know, answer No) [y/n]? **N**

```
Creating end-user configuration script (config_user_account)...  
Will end-users be using either AFS or NFS (network file systems)  
to access the software (if you don't know, answer No) [y/n]? n
```

7. Software 설치 완료

라이선스 서버 및 사용자 환경 추가 설정 필요

```
*****  
ACE Suite Software Installation Complete  
*****
```

To finish the installation, you may need to perform the following steps:

1. Install the license server.
2. Request and install the license keys.
3. Configure user accounts by logging in as the end-user and executing config_user_account from the /usr/local/KWENC/ACE+Suite directory.

Contact support_cfd@amat.com if you have any questions.

```
[root@kwenc ACE+Suite_V2023.0_Linux_x64-glibc2.17]#
```

License 서버 설정

FlexNet 11.19

❖ Install_FNP 실행 (관리자 권한으로 실행)

- install_FNP 관리자 권한으로 실행

→ 위치 : LICENSES_11.19-linux-x64-intel19-glibc2.17

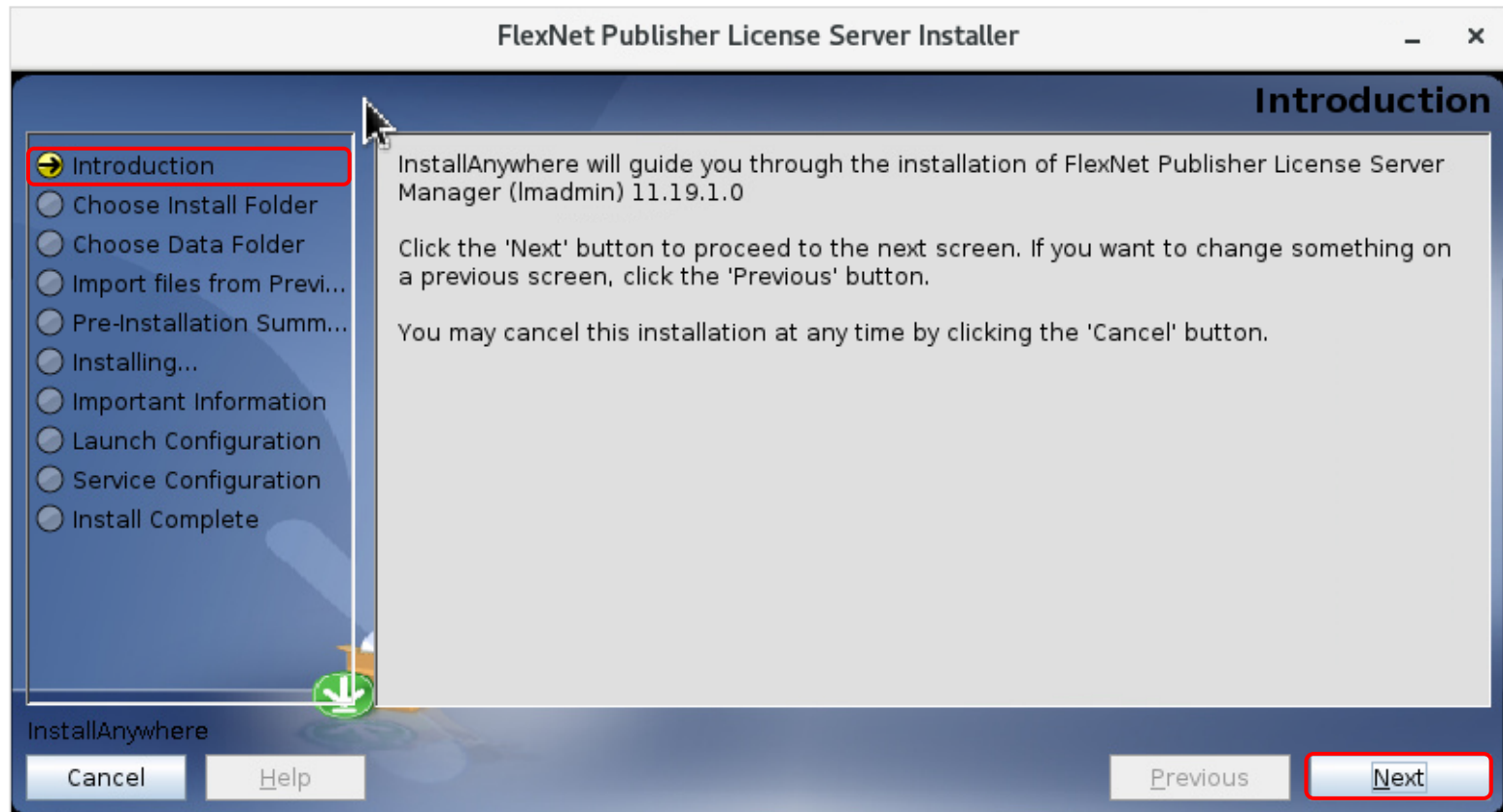


```
[root@kwenc ~]# cd /home/kwenc/software/2023/LICENSES_11.19-linux-x64-intel19-glibc2.17
[root@kwenc LICENSES_11.19-linux-x64-intel19-glibc2.17]# ll
total 68636
-rwxr-xr-x. 1 kwenc kwenc 1522816 Oct 26 2022 AMAT
-rwxr-xr-x. 1 kwenc kwenc 3487422 Dec 19 21:31 fnp_LicAdmin.pdf
-rwxr-xr-x. 1 kwenc kwenc 10968616 Jan 6 13:13 getLmHostIds
-rwxr-xr-x. 1 kwenc kwenc 10969656 Jan 6 13:14 install_FNP
-rwxr-xr-x. 1 kwenc kwenc 42036801 Dec 16 17:40 lmadmin-x64_lsb-11_19_1_0.bin
-rwxr-xr-x. 1 kwenc kwenc 1281400 May 18 2022 lmutil
-rwxr-xr-x. 1 kwenc kwenc 5908 Dec 24 13:32 README.txt
[root@kwenc LICENSES_11.19-linux-x64-intel19-glibc2.17]# ./install_FNP
executing: ./lmadmin-x64_lsb-11_19_1_0.bin -DLIC_PORT_NUMBER=31415 -r /tmp/tmp1ngqucfj/fnpInstallerResponses.txt
Preparing to install
Extracting the installation resources from the installer archive...
Configuring the installer for this system's environment...

Launching installer...
```

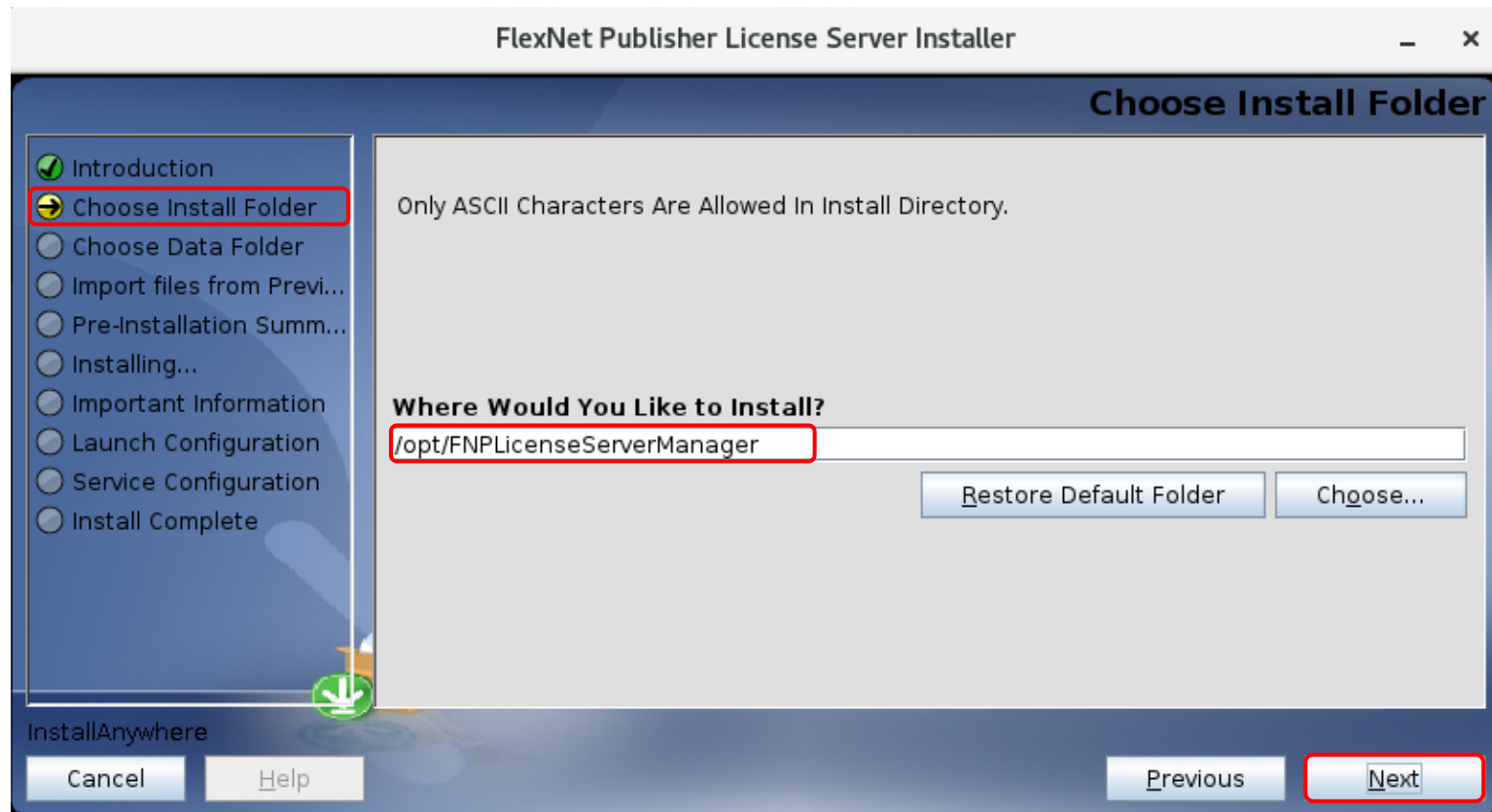
❖ Flexera software 설치

- install_FNP 관리자 권한으로 실행
→ 위치 : LICENSES_11.19-linux-x64-intel19-glibc2.17



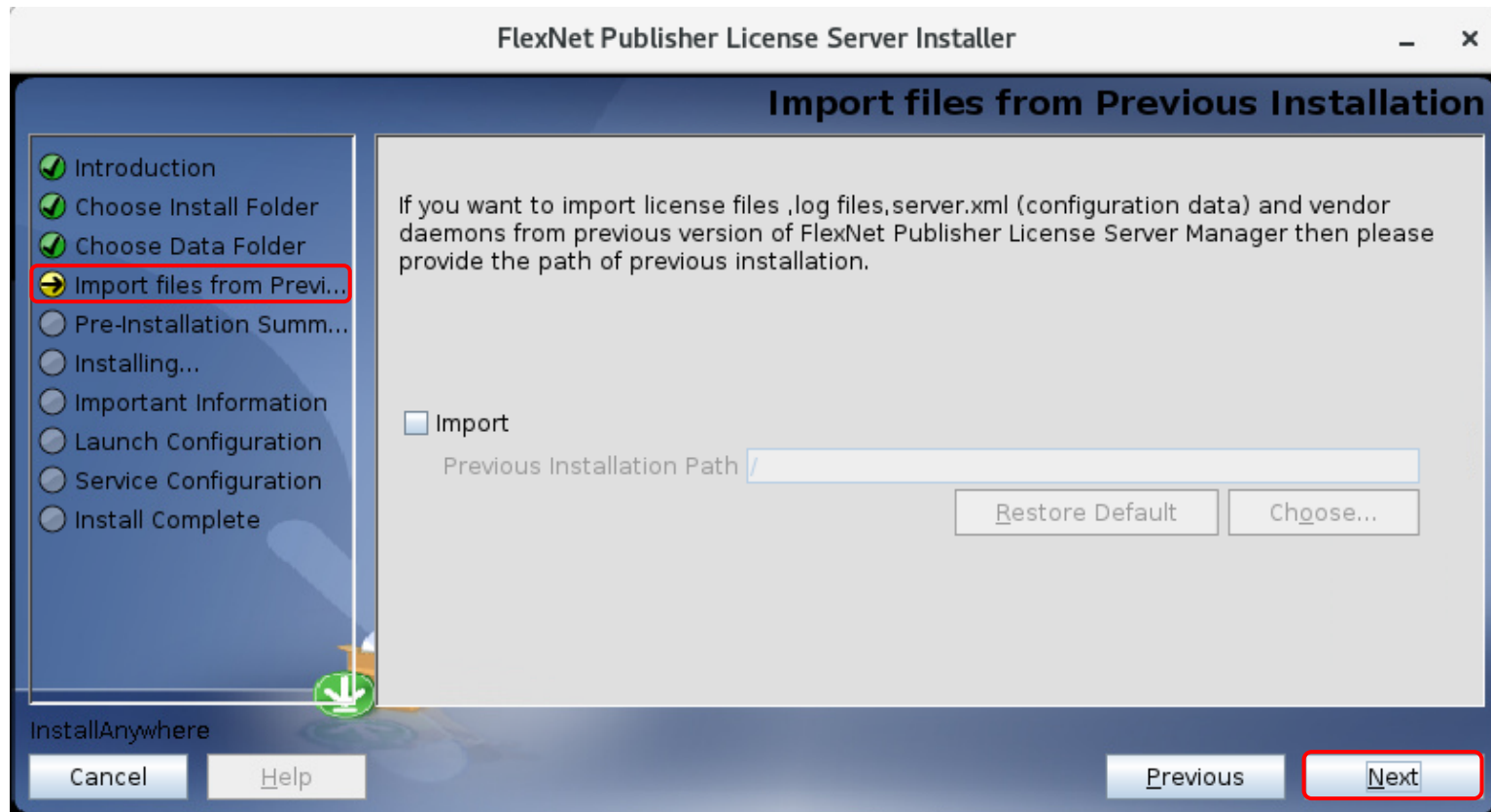
❖ Flexera software 설치

- "lmadmin-x64_n6-11_19_1_0.exe" 관리자 권한으로 실행
→ Visual C++ Redistributable 설치 선택



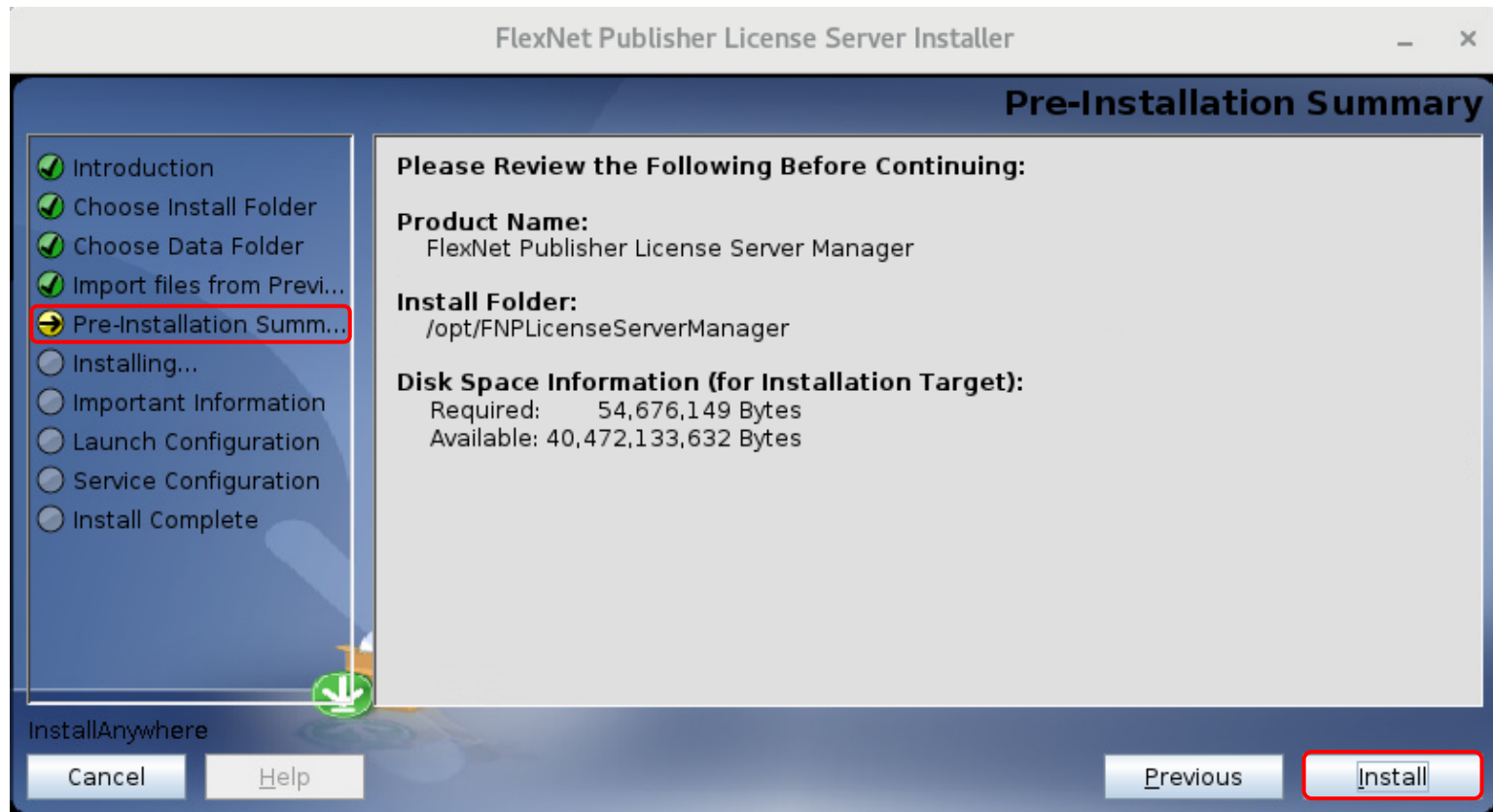
❖ Flexera software 설치

- "lmadmin-x64_n6-11_19_1_0.exe" 관리자 권한으로 실행
→ Visual C++ Redistributable 설치 선택



❖ Flexera software 설치

- "lmadmin-x64_n6-11_19_1_0.exe" 관리자 권한으로 실행
→ Visual C++ Redistributable 설치 선택



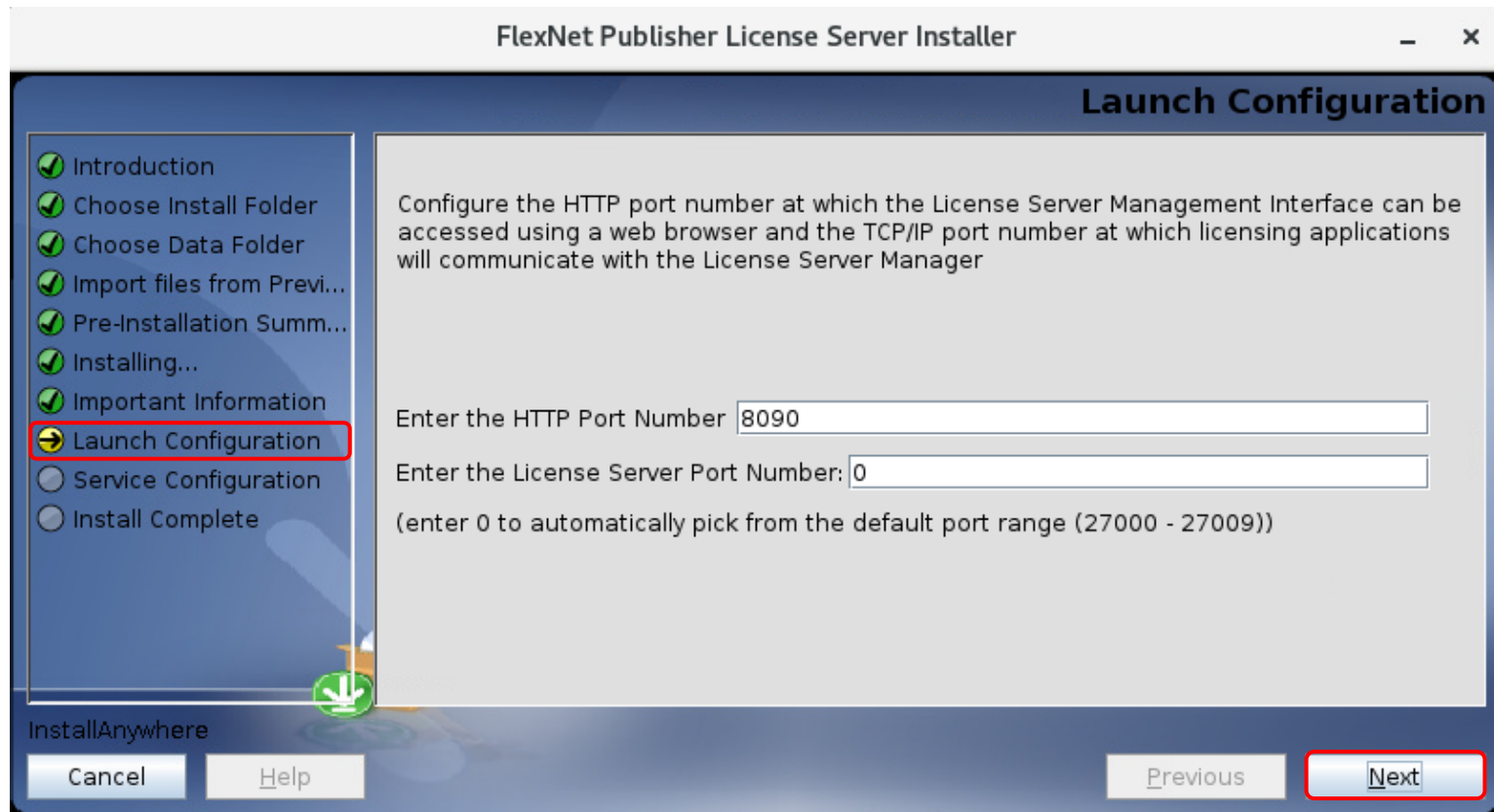
❖ Flexera software 설치

- "lmadmin-x64_n6-11_19_1_0.exe" 관리자 권한으로 실행
→ Visual C++ Redistributable 설치 선택



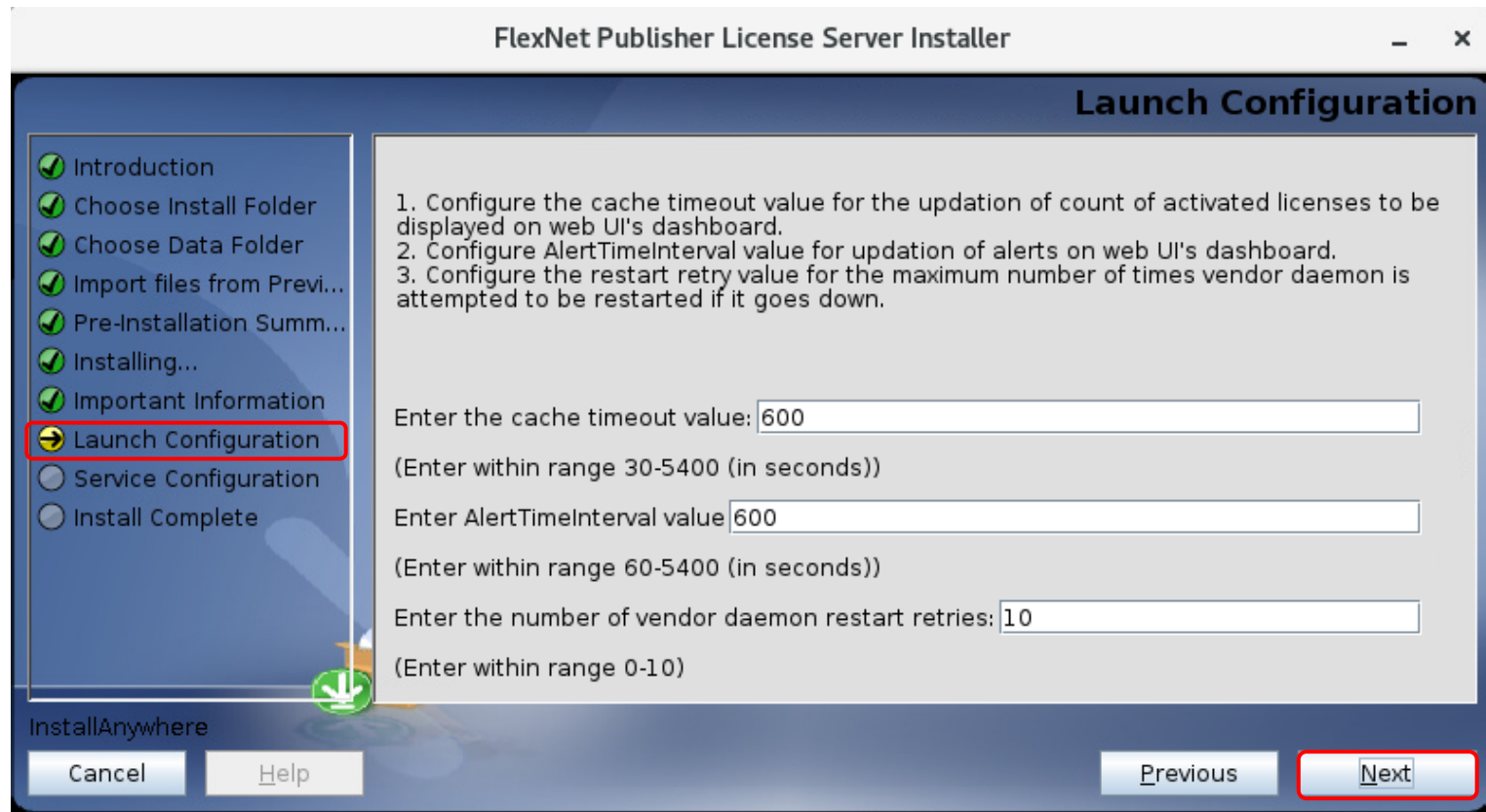
❖ Flexera software 설치

- "lmadmin-x64_n6-11_19_1_0.exe" 관리자 권한으로 실행
→ Visual C++ Redistributable 설치 선택



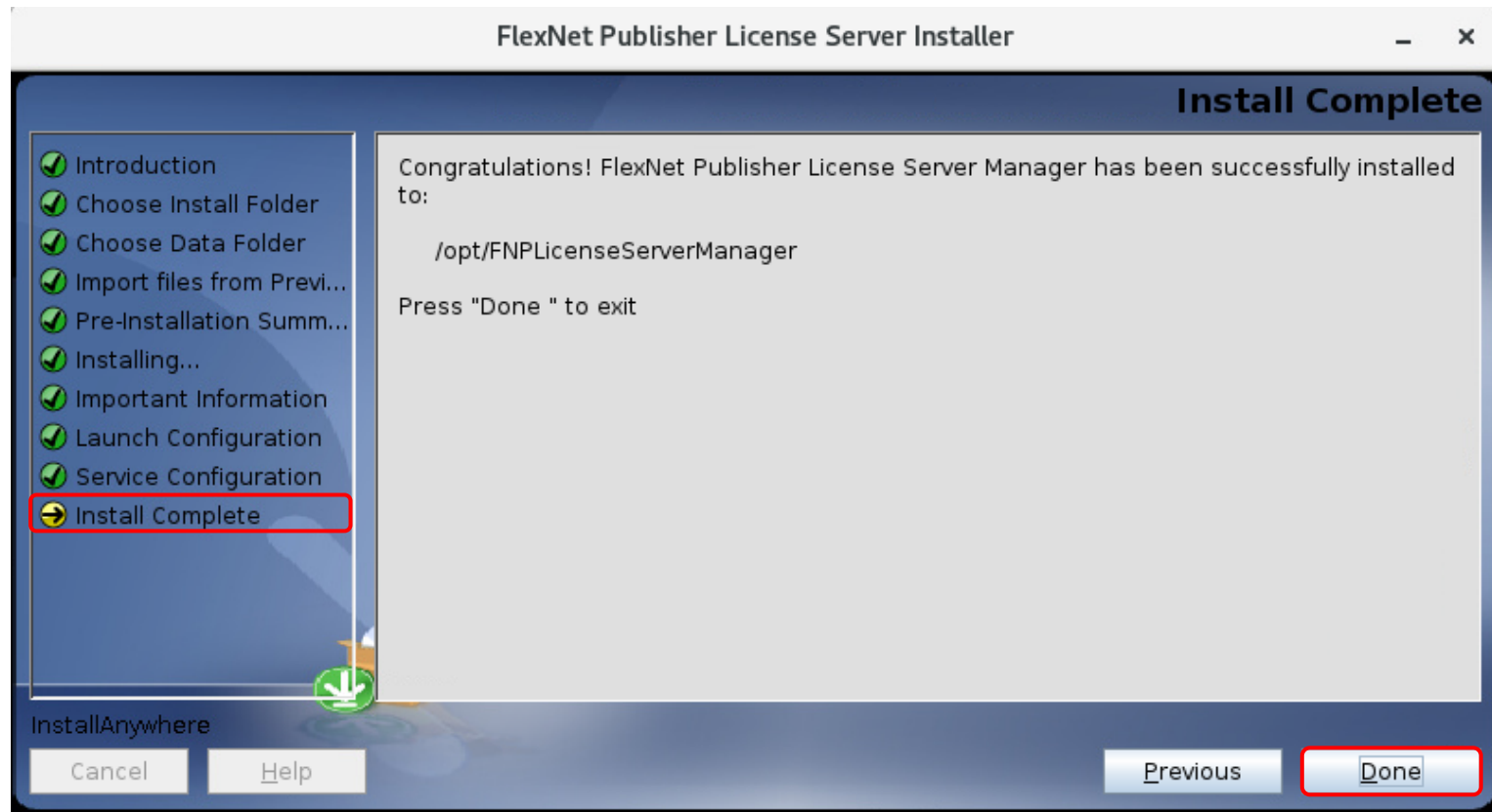
❖ Flexera software 설치

- "lmadmin-x64_n6-11_19_1_0.exe" 관리자 권한으로 실행
→ Visual C++ Redistributable 설치 선택



❖ Flexera software 설치

- "lmadmin-x64_n6-11_19_1_0.exe" 관리자 권한으로 실행
→ Visual C++ Redistributable 설치 선택



❖ FNP license service 활성화

- "lmadmin" 관리자 권한으로 실행

→ 위치 : /opt/FNPLicenseServerManager/lmadmin

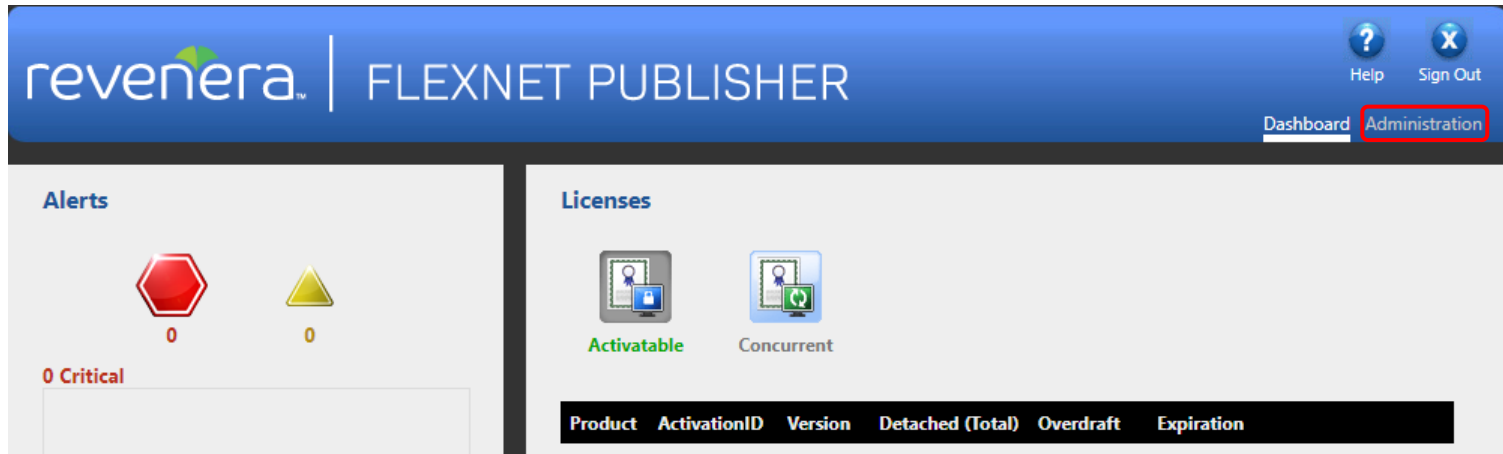
```
[root@kwenc FNPLicenseServerManager]# ll
total 42684
-rwxr-xr-x. 1 root root 1522816 Oct 26 2022 AMAT
drwxrwxr-x. 2 root root 96 Jun 13 14:39 conf
drwxrwxr-x. 2 root root 38 Apr 26 11:31 demo
drwxrwxr-x. 5 root root 51 Apr 26 11:31 examples
-rw-r--r--. 1 root root 10849572 May 18 2022 libcrypto.so
-rw-r--r--. 1 root root 10849572 May 18 2022 libcrypto.so.1.1
-rw-r--r--. 1 root root 3142888 May 4 2022 libhasp_linux_x86_64.so
-rw-r--r--. 1 root root 70447 May 18 2022 liblber.so
-rw-r--r--. 1 root root 70447 May 18 2022 liblber.so.2
-rw-r--r--. 1 root root 70447 May 18 2022 liblber.so.2.0.200
-rw-r--r--. 1 root root 428223 May 18 2022 libldap.so
-rw-r--r--. 1 root root 428223 May 18 2022 libldap.so.2
-rw-r--r--. 1 root root 428223 May 18 2022 libldap.so.2.0.200
-rw-r--r--. 1 root root 2612801 May 18 2022 libssl.so
-rw-r--r--. 1 root root 2612801 May 18 2022 libssl.so.1.1
-rwxr-xr-x. 1 root root 10583928 May 18 2022 lmadmin
drwxr-xr-x. 2 root root 77 Jun 13 14:39 logs
-rw-r--r--. 1 root root 1267 May 4 2022 README-swidtag-lmadmin.txt
-rw-r--r--. 1 root root 8804 May 4 2022 regid.2009-06.com.flexerasoftware_f646749c-e3a1-45a3-8ea5-e3b65044c359.swidtag
drwxr--r--. 2 root root 270 Apr 26 11:31 uninstall
drwxrwxr-x. 7 root root 131 Apr 26 11:31 web
drwxrwxr-x. 2 root root 32 Apr 26 11:31 wsd
[root@kwenc FNPLicenseServerManager]# ./lmadmin
[root@kwenc FNPLicenseServerManager]# httpd (pid 9032) already running
```

❖ FNP license service 활성화

- 라이선스 관리자는 웹 인터페이스를 통해 구성

→ 인터넷 주소창에 아래 내용 작성

<http://localhost:8090/>



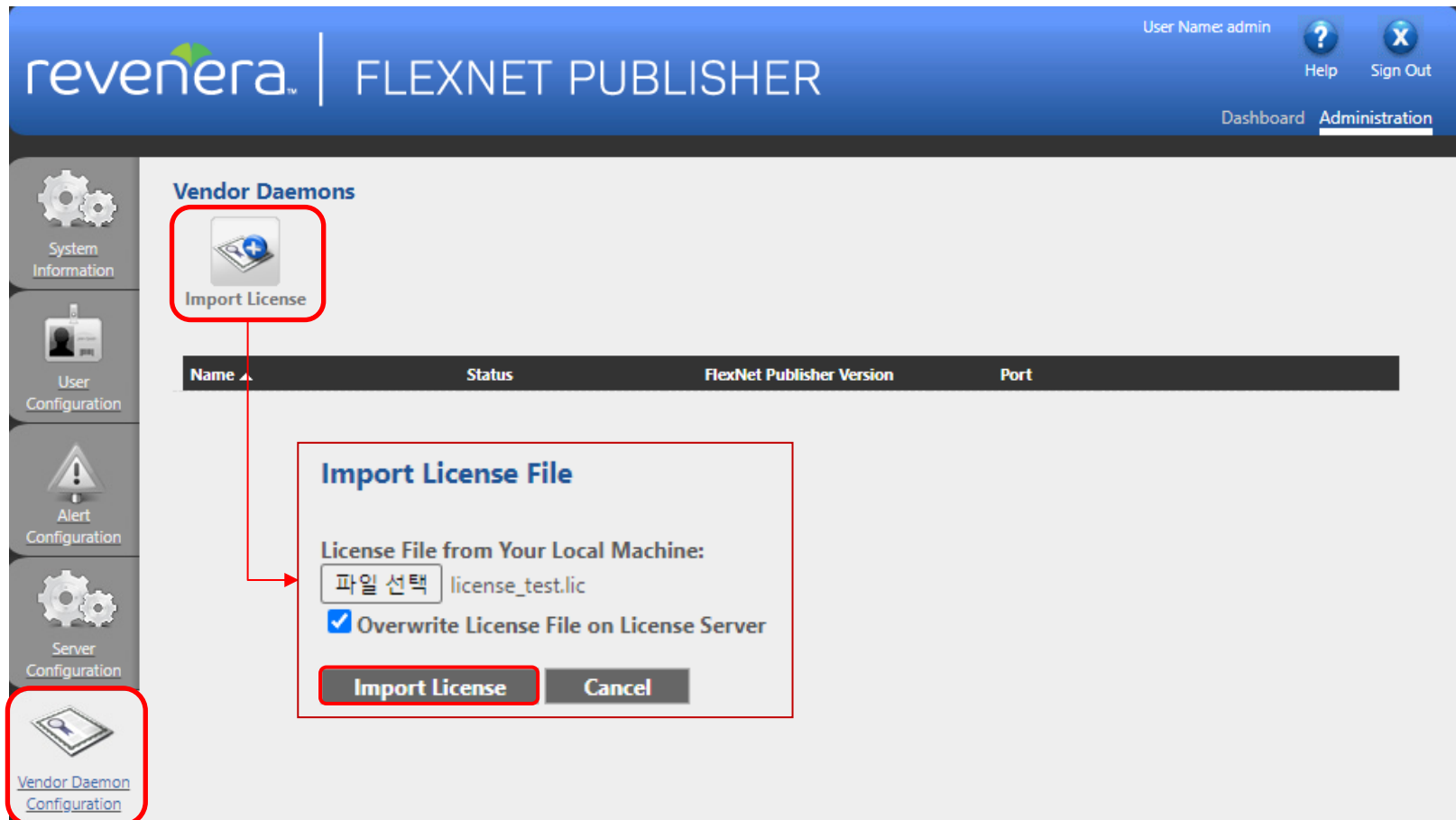
→ 오른쪽 상단 Administration을 클릭하여 아래 정보를 통해 로그인

user=admin / password=admin

(로그인 정보를 변경할 경우 경원이앤씨 담당자와 공유 필요 - 추후 조치시 필요)

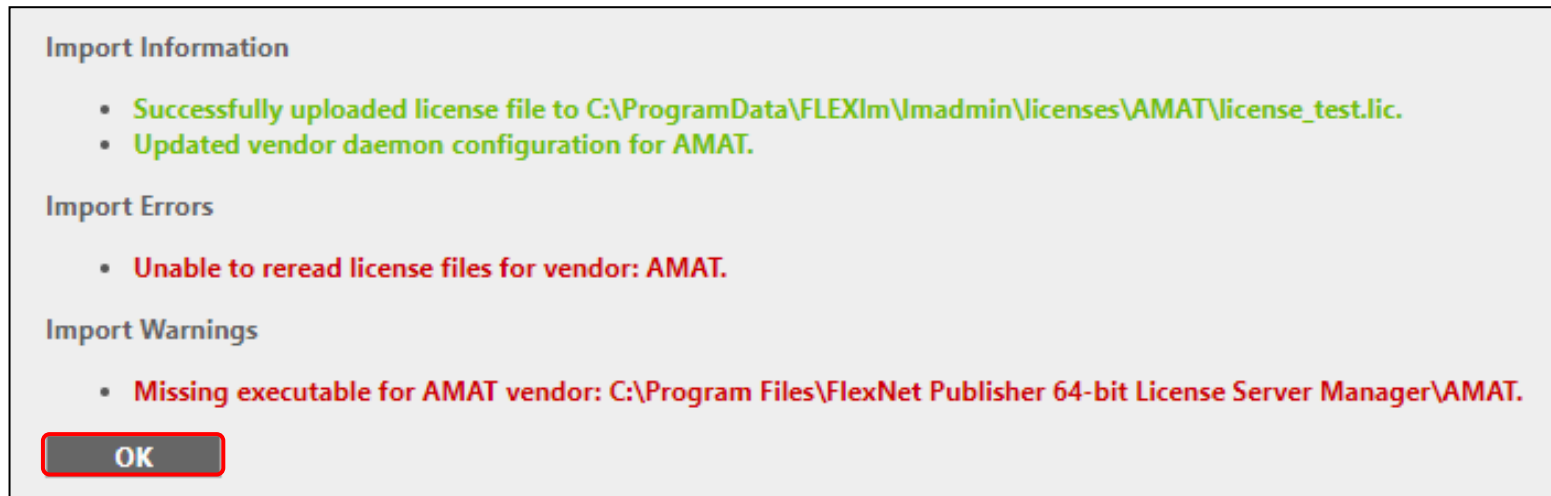
❖ FNP license service 활성화

- 라이선스 관리자는 웹 인터페이스를 통해 구성
 - 왼쪽 하단 'Vendor Daemon Configuration' 탭 이동
 - 왼쪽 상단 'Import License' 탭을 통해 라이선스 파일 import



❖ FNP license service 활성화

- 라이선스 관리자는 웹 인터페이스를 통해 구성
→ 아래와 같은 에러 발생시 OK 클릭



❖ FNP license service 활성화

- 라이선스 관리자는 웹 인터페이스를 통해 구성

→ 붉은색 상자 영역 클릭



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User Name: admin Help Sign Out

Dashboard **Administration**

Vendor Daemons

System Information

Import License

Name ▲	Status	FlexNet Publisher Version	Port	
AMAT	Stopped	0.0	Administer	Delete

User Configuration

Alert Configuration

Server Configuration

Vendor Daemon Configuration

❖ FNP license service 활성화

Vendor Daemon:AMAT

Vendor Daemon Actions

④ **Start**

General Configuration

* **License File or Directory**
licenses/AMAT/pam_lmd.temp

① **Vendor Daemon Location:**
/home/kwenc/software/2023/LICENSES_11.19-linux-x64-intel19-glibc2.17/AMAT

② *** Vendor Daemon Port:**
☐ Use default port
☒ Use this port: 50000

* **Restart Retries:**
10
☐ Preserve Vendor Daemon Restart Retries value during Imadmin restart

☐ Enable Date-based Versions

Vendor Daemon Log

☐ Overwrite Vendor Daemon Log

Vendor Daemon Log Location:
./AMAT.log

[View file externally](#) → 오류 발생시 클릭하여 오류 내용 확인

③ **Save** **Cancel**

❖ FNP license service 활성화

- 라이선스 관리자는 웹 인터페이스를 통해 구성

→ Vendor Daemons 활성화 후 확인되는 Port No.는 사용자 환경설정에서 사용 됨

revenera FLEXNET PUBLISHER

User Name: admin Help Sign Out

Dashboard Administration

Vendor Daemons

Starting vendor daemon: AMAT

Import License

Name ▲	Status	FlexNet Publisher Version	Port		
AMAT	Starting Up	0.0	50000	Administer	Delete

System Information

User Configuration

Alert Configuration


Server Configuration

Vendor Daemon Configuration


❖ FNP license service 활성화

Dashboard
Administration

Alerts



14



1


14 Critical

- Vendor daemon down: AMAT
Thu Mar 9 15:22:35 2023 ✕
- Vendor daemon down: AMAT
Thu Mar 9 15:39:46 2023 ✕
- Vendor daemon down: AMAT
Thu Mar 9 15:40:17 2023 ✕
- Vendor daemon down: AMAT
Thu Mar 9 15:40:18 2023 ✕
- Vendor daemon down: AMAT
Thu Mar 9 15:40:19 2023 ✕
- Vendor daemon down: AMAT
Thu Mar 9 15:40:20 2023 ✕
- Vendor daemon down: AMAT
Thu Mar 9 15:40:21 2023 ✕
- Vendor daemon down: AMAT ✕


[Change Password](#)

Licenses

Vendor Daemon: AMAT



Activatable



Concurrent

라이선스 사용 현황 확인 가능


Feature	Version	In Use (Available)	Expiration
CFD_ALL	2023.0	1 (1)	2023-03-16 Hosts
CFD_EDU_ACE	2023.0	0 (1)	2023-03-16

Hosts - Google Chrome

localhost:8090/concurrenthosts?vendor=AMAT&feature=CFD_ALL&version=2023.0

Hosts

Feature Name/Version:
CFD_ALL 2023.0 Export Data



Search for:

Search

Page 1 of 1

Host	User	Display Name	Count
20WLS4PPF3Q3KEW	e185928	20WLS4PPF3Q3KEW	1

사용자 환경 설정

- 사용자 환경 설정하기 (프로그램을 사용할 사용자 계정에서 실행)

1. 사용자 계정 home 디렉토리에 .flexlmrc 파일을 생성하여 아래와 같은 내용을 작성 후 저장

vi .flexlmrc

LM_LICENSE_FILE=Port No.@IP 주소



※ License 파일의 “Server(s) and daemon Definition” 첫 줄 확인

```
#----- Server(s) and VendorDaemon Definition -----  
#  
#SERVER line format is:   SERVER hostname hostid [port] [PRIMARY_IS_MASTER]  
[HEARTBEAT_INTERVAL=seconds]  
#Only Hostname and Port (2nd and 4th parameters) can be changed before license  
installation  
#VENDOR line format is:   VENDOR vendor [vendor_daemon_path] [[OPTIONS=]  
options_file_path] [[PORT=]port]  
#Only VendorDaemonPath (3rd parameter) can be changed, If needed add  
OptionsFilePath and PortNb (4th and 5th parameters).  
#  
#Please do not delete this comment line.  
SERVER licserver 010b5f01a46  
VENDOR AMAT  
USE_SERVER
```

Hostname은 licserver, 물리적 주소는 0010b5f01a46, Port No.는 50000(24page 참고)로 설정되어 있는 상태

- 사용자 환경 설정하기 (프로그램을 사용할 사용자 계정에서 실행)

2. 자동 환경 설정

Home 디렉토리에서 실행한 .bashrc 파일(bash shell을 사용할 경우)에 아래와 같이 환경설정

→ 아래 예시의 경우 Home 디렉토리는 /home/kwenc

```
[kwenc@kwenc ~]$ cd
[kwenc@kwenc ~]$ pwd
/home/kwenc
[kwenc@kwenc ~]$ vi .bashrc
```

```
export ACE_SUITE_HOME=/usr/local/KWENC
```

```
export PATH=$ACE_SUITE_HOME/ACE+Suite/2023.0/UTILS/bin:$PATH
```

```
# .bashrc

# Source global definitions
if [ -f /etc/bashrc ]; then
    . /etc/bashrc
fi

# Uncomment the following line if you don't like systemctl's auto-paging feature:
# export SYSTEMD_PAGER=

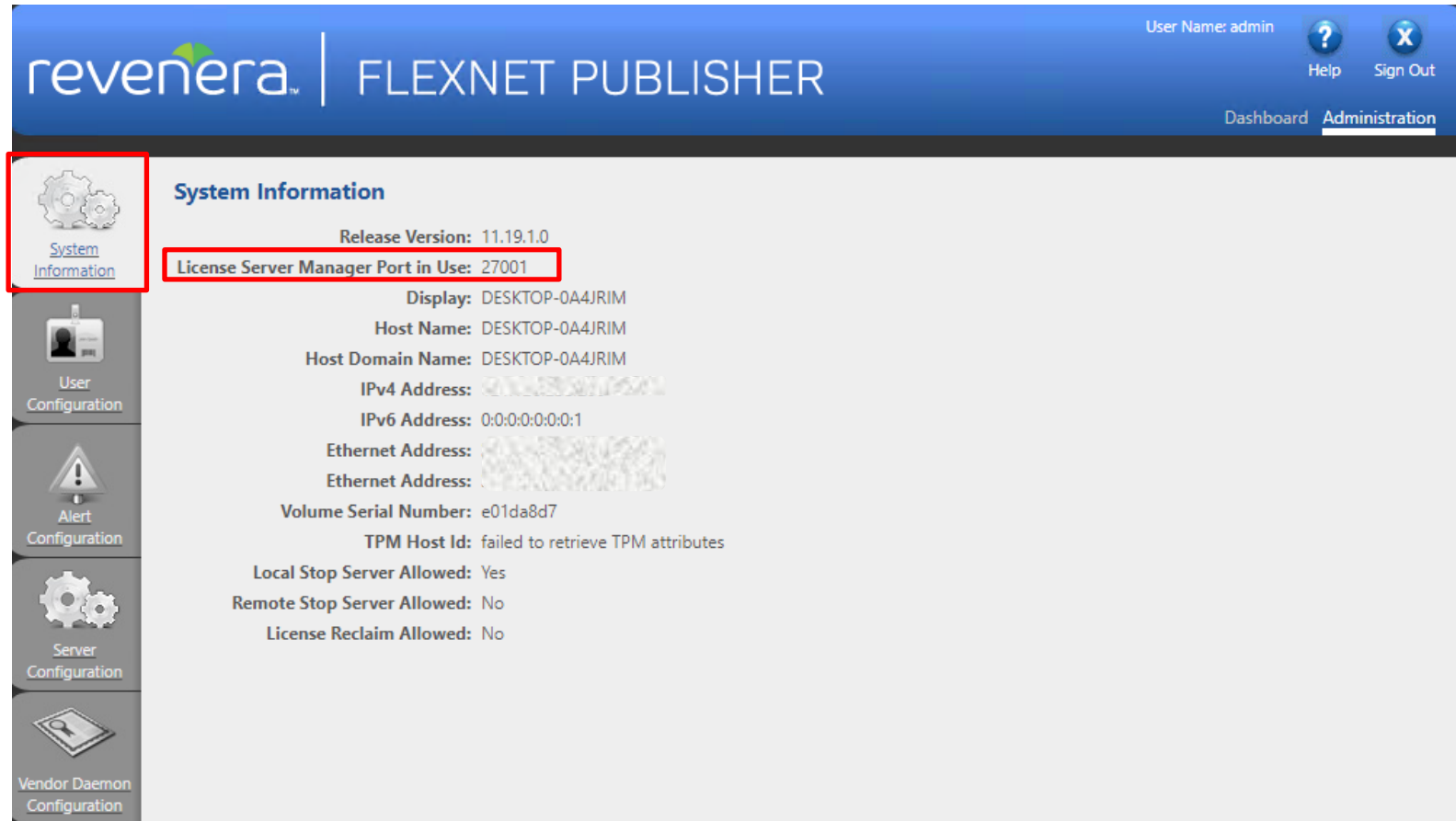
# Use specific aliases and functions

export ACE_SUITE_HOME=/usr/local/KWENC
export PATH=$ACE_SUITE_HOME/ACE+Suite/2023.0/UTILS/bin:$PATH
```

.bashrc 파일은 수정 후 재 Login을 해야 환경변수가 적용 됨

- **License Server Manager Port 확인**

- License Server Manager Port를 확인하여 방화벽에서 제외 : **27000 또는 27001**
- Vender Daemons(24page) Port 확인 후 방화벽에서 추가 제외 : **50000**



Thank you for your attention

KWEnC CAE solution provider

Mail to : support@kwenc.kr

Phone : +82-31-737-2987

Fax : +82-31-737-2989

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