

CFD-ACE+ Installation

V2024

(주)경원이앤씨

Software 설치

※ V2022 이하 버전을 사용 중이면서 V2023, V2024를 설치 할 경우 다른 폴더 내에 설치 필요

ex) /usr/local/KWENC_1/ACE+Suite/V2022

/usr/local/KWENC_2/ACE+Suite/V2024

- V2024 Install 방법 (관리자 권한으로 실행)

Supported Platforms

ACE+ SUITE V2024.0 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 Applied Materials, ensure that you have the right directory structure.

1. 설치파일 위치에서 권한 변경 후 Install.com 실행

→ 설치파일 : ACE+Suite_V2024.0_Linux_x64-glibc2.17

chmod755 ./install.com

./install.com

- V2024 Install 방법 (관리자 권한으로 실행)

2. License Agreement 끝 부분까지 'Enter'

License Agreement 동의 "y"를 선택.

```
[root@kwenc 2024.0]# chmod 755 install
[root@kwenc 2024.0]# ./install
*****
ACE Suite Software Installation
*****
Please consult the
Getting Started Guide
for detailed instructions.
*****

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

Press 'Enter' for 'End User License Agreement'.

CFD ACE+ SOFTWARE LICENSE AGREEMENT APPLIED MATERIALS CONFIDENTIAL
Copyright © 2007-2022, Applied Materials, Inc. 6 REV20220824
CFD ACE+ SOFTWARE LICENSE AGREEMENT
THIS CFD ACE+ SOFTWARE LICENSE AGREEMENT IS ENTERED INTO BY AND BETWEEN PURCHASER (THE ENTITY IDENTIFIED IN THE QUOTATIO
N "LICENSEE") AND APPLIED MATERIALS, INC. ("APPLIED"), AND IS MADE EFFECTIVE AS OF THE DATE OF LICENSEE'S FIRST DOWNLOAD

such form of purchase order, and any additional terms printed on such purchase order will be of no effect.
CFD ACE+ SOFTWARE LICENSE AGREEMENT APPLIED MATERIALS CONFIDENTIAL
Copyright © 2007-2022, Applied Materials, Inc. 6 REV20220824

Do you agree with the 'License Agreement'? [y/n]
Please answer y or n.
Do you agree with the 'License Agreement'? [y/n] y

Thank you.
```

- V2024 Install 방법 (관리자 권한으로 실행)

3. 설치를 원하는 위치 설정

설치 위치를 기본 위치에서 변경하고자 한다면 "n"를 선택

Ex) /Home/kwenc/Software/2024.0/ACE+Suite → /usr/local/KWENC

```
Package(s) will be installed in directory:
Install path : /home/kwenc/Software/2024.0/ACE+Suite

Is this ok? [y/n] n

Provide a new installation path (ACE+Suite will be added at the end):
/usr/local/KWENC
Install path : /usr/local/KWENC/ACE+Suite

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

선택하지 않고 전체 프로그램을 설치하고자 한다면 "y"를 선택.

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

```
Extracting packages at /home/kwenc/Software/2024.0/ACE+Suite

Install ALL packages? [y/n] y
```

- V2024 Install 방법 (관리자 권한으로 실행)

4. Software 설치 완료

License 서버 및 사용자 환경 추가 설정 필요(다음페이지 참고)

```
Installation complete.
```

```
*****  
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. Run /home/kwenc/Software/2024.0/ACE+Suite/config_user_account to setup the environment.

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

```
/home/kwenc/Software/2024.0
```

```
[root@kwenc 2024.0]#
```

[Install the license server]

License 서버 설정

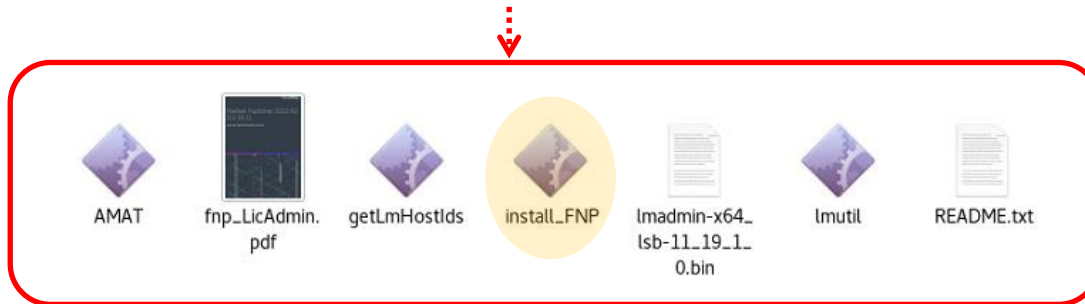
FlexNet 11.19

※ V2022이하 버전을 사용 중이면서 V2023, V2024를 설치 한 경우, V2022와 다른 Port 설정 필요

❖ Install_FNP 실행 (관리자 권한으로 실행)

- install_FNP 관리자 권한으로 실행

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

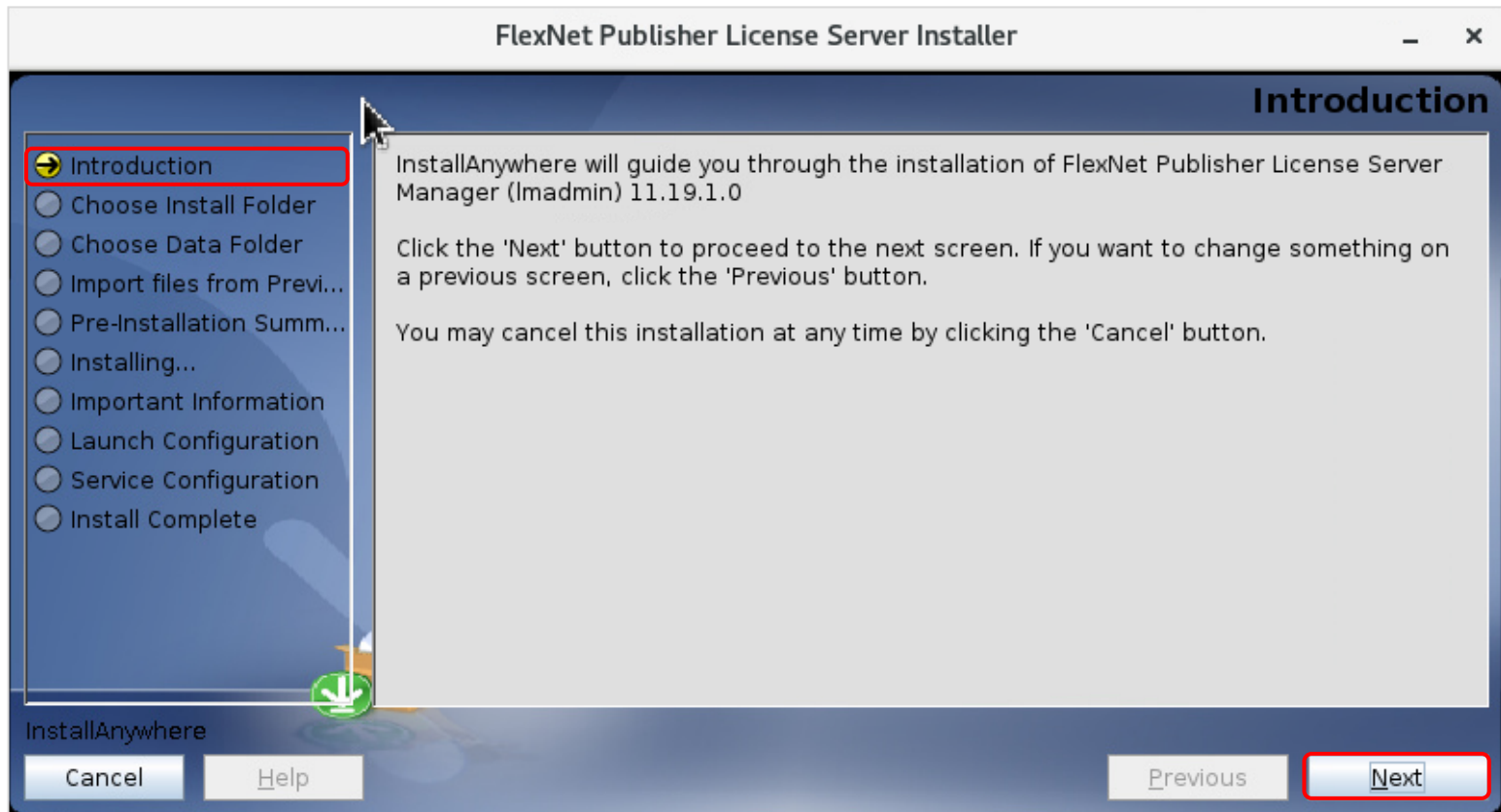


```
[kwenc@kwenc LICENSES_11.19-linux-x64-intel19-glibc2.17]$ pwd
/home/kwenc/Software/LICENSES_11.19-linux-x64-intel19-glibc2.17
[kwenc@kwenc LICENSES_11.19-linux-x64-intel19-glibc2.17]$ ll
total 68636
-rwxr-xr-x. 1 kwenc kwenc 1522816 Oct 26 2022 AMAT
-rw-r--r--. 1 kwenc kwenc 3487422 Dec 19 2022 fnp_LicAdmin.pdf
-rwxr-xr-x. 1 kwenc kwenc 10968616 Jan 6 2023 getLmHostIds
-rwxr-xr-x. 1 kwenc kwenc 10969656 Jan 6 2023 install_FNP
-rwxr-xr-x. 1 kwenc kwenc 42036801 Dec 16 2022 lmadmin-x64_lsb-11_19_1_0.bin
-rwxr-xr-x. 1 kwenc kwenc 1281400 May 18 2022 lmutil
-rw-r--r--. 1 kwenc kwenc 5908 Dec 24 2022 README.txt
[kwenc@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/tmpkpq7q5mp/fnpInstallerResponses.txt
Preparing to install
Extracting the installation resources from the installer archive...
Configuring the installer for this system's environment...

Launching installer...
```

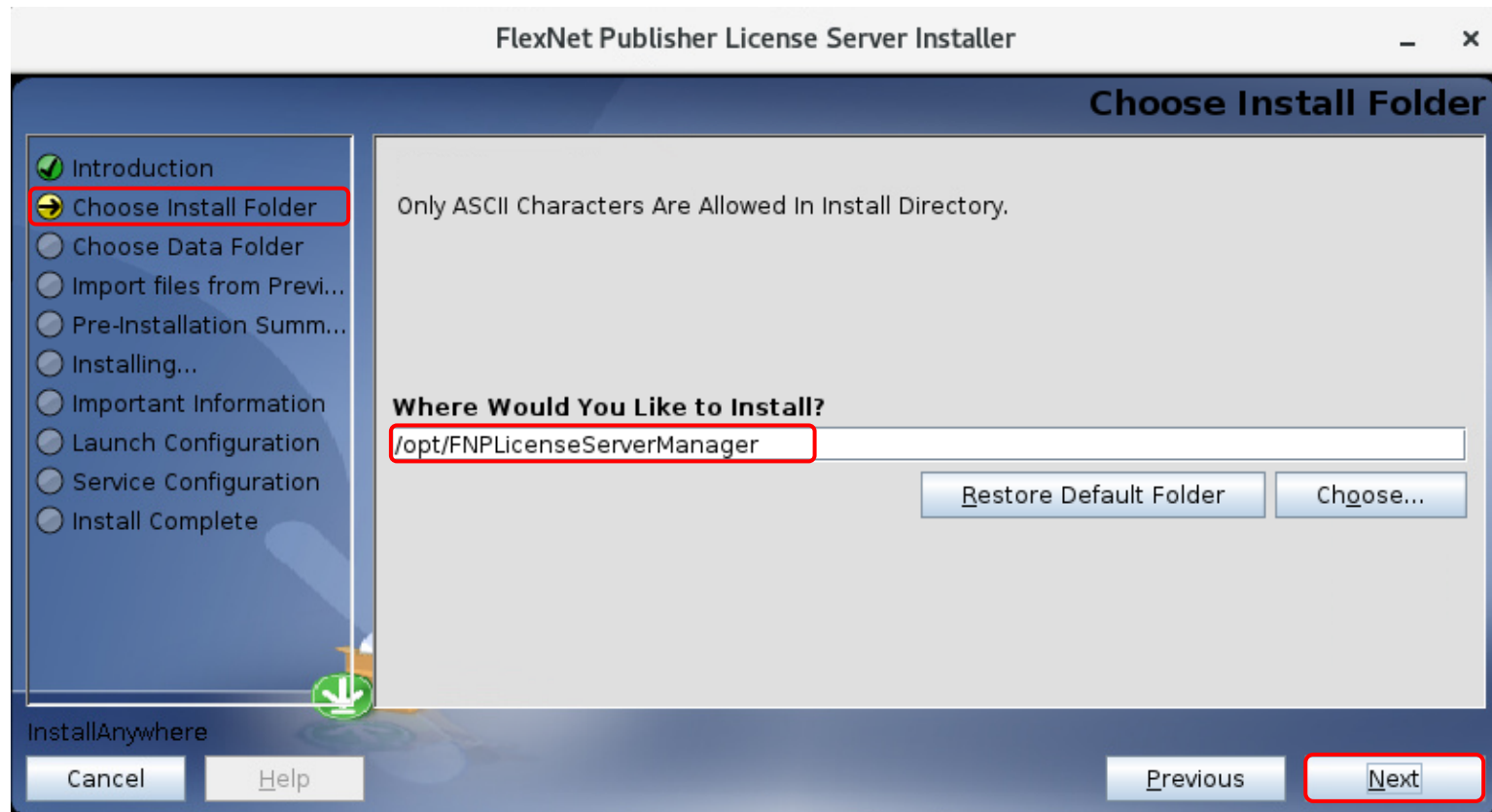

❖ Flexera software 설치

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



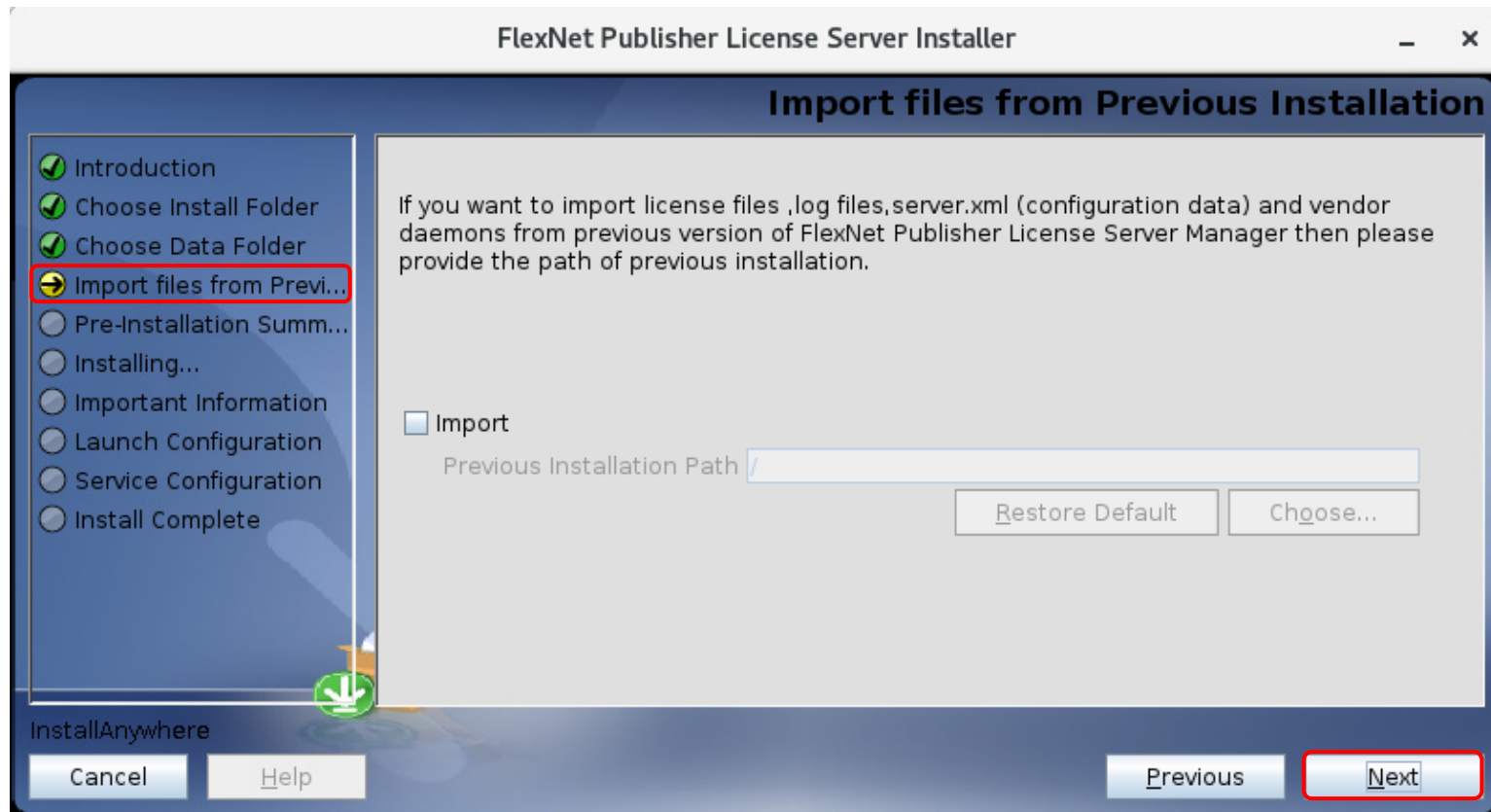
❖ Flexera software 설치

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



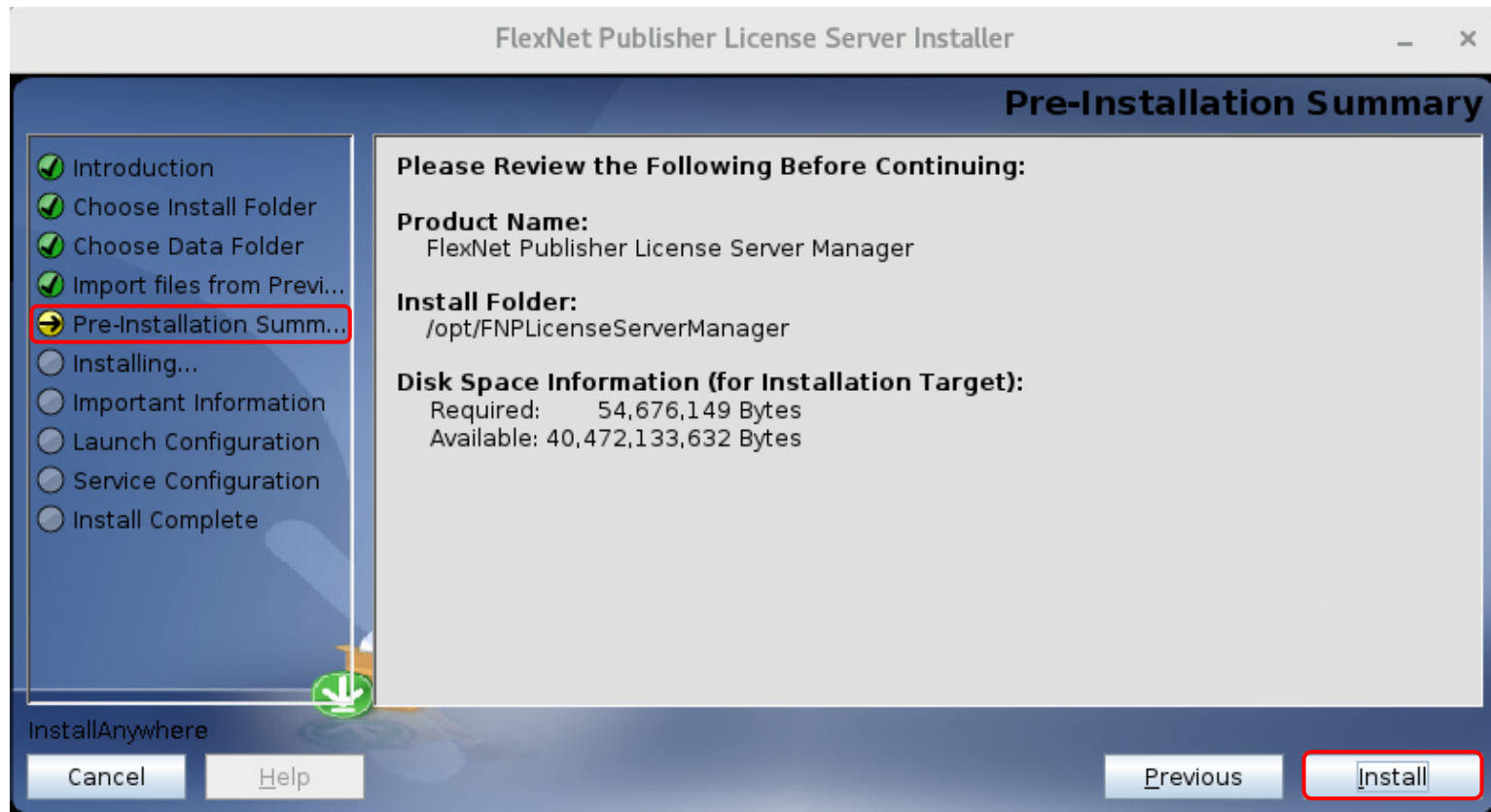
❖ Flexera software 설치

- "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



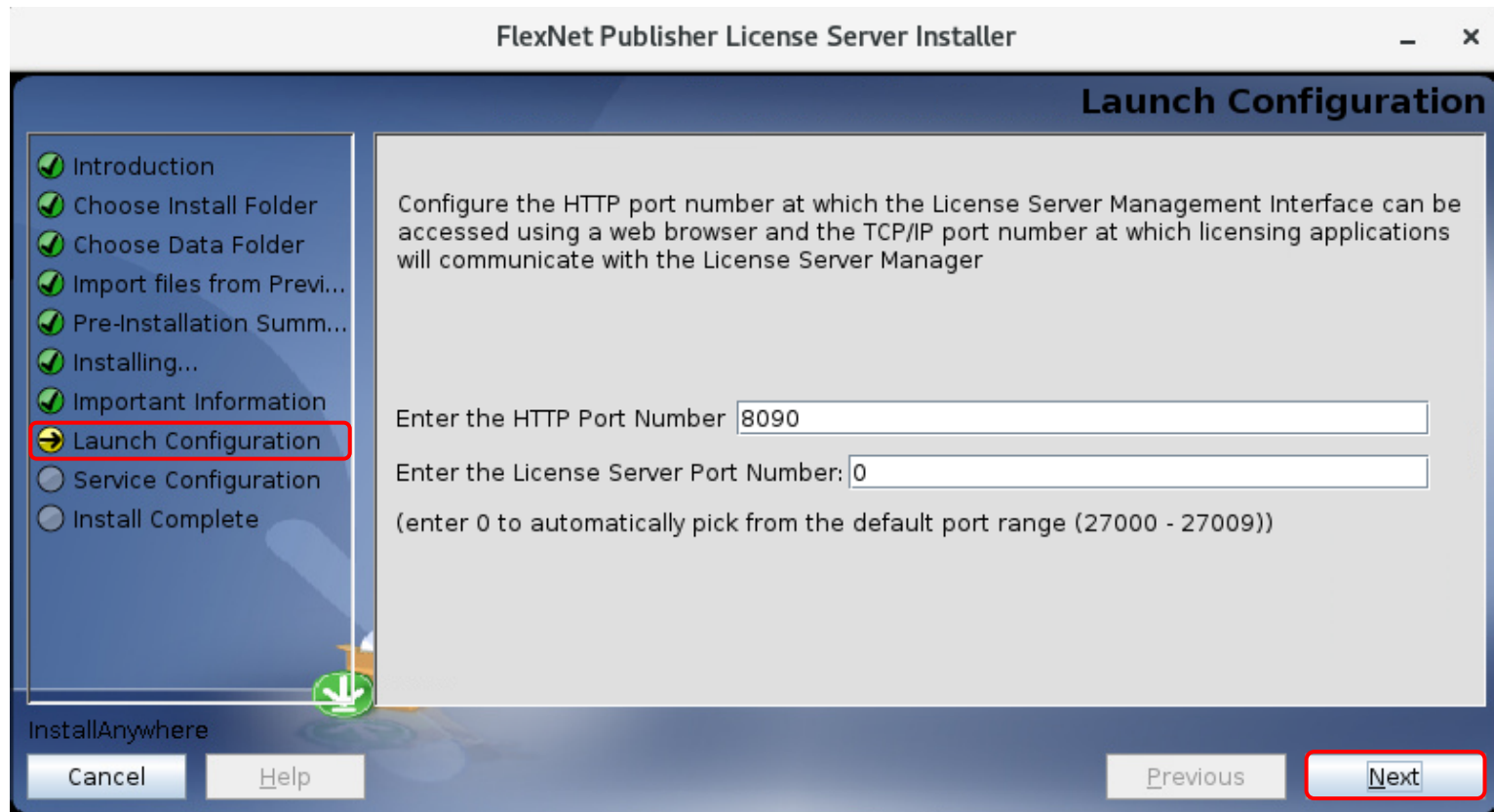
❖ Flexera software 설치

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



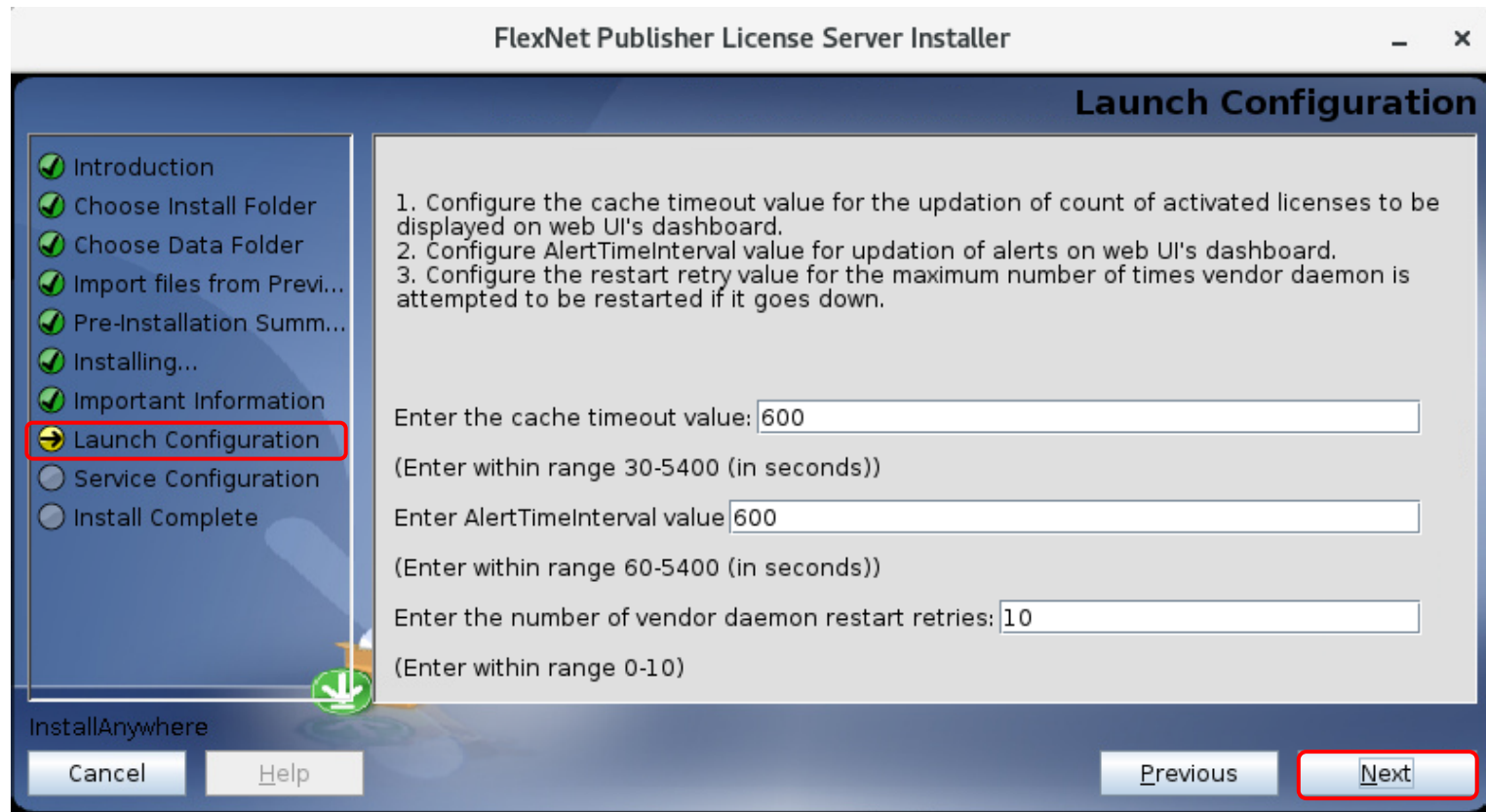
❖ Flexera software 설치

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



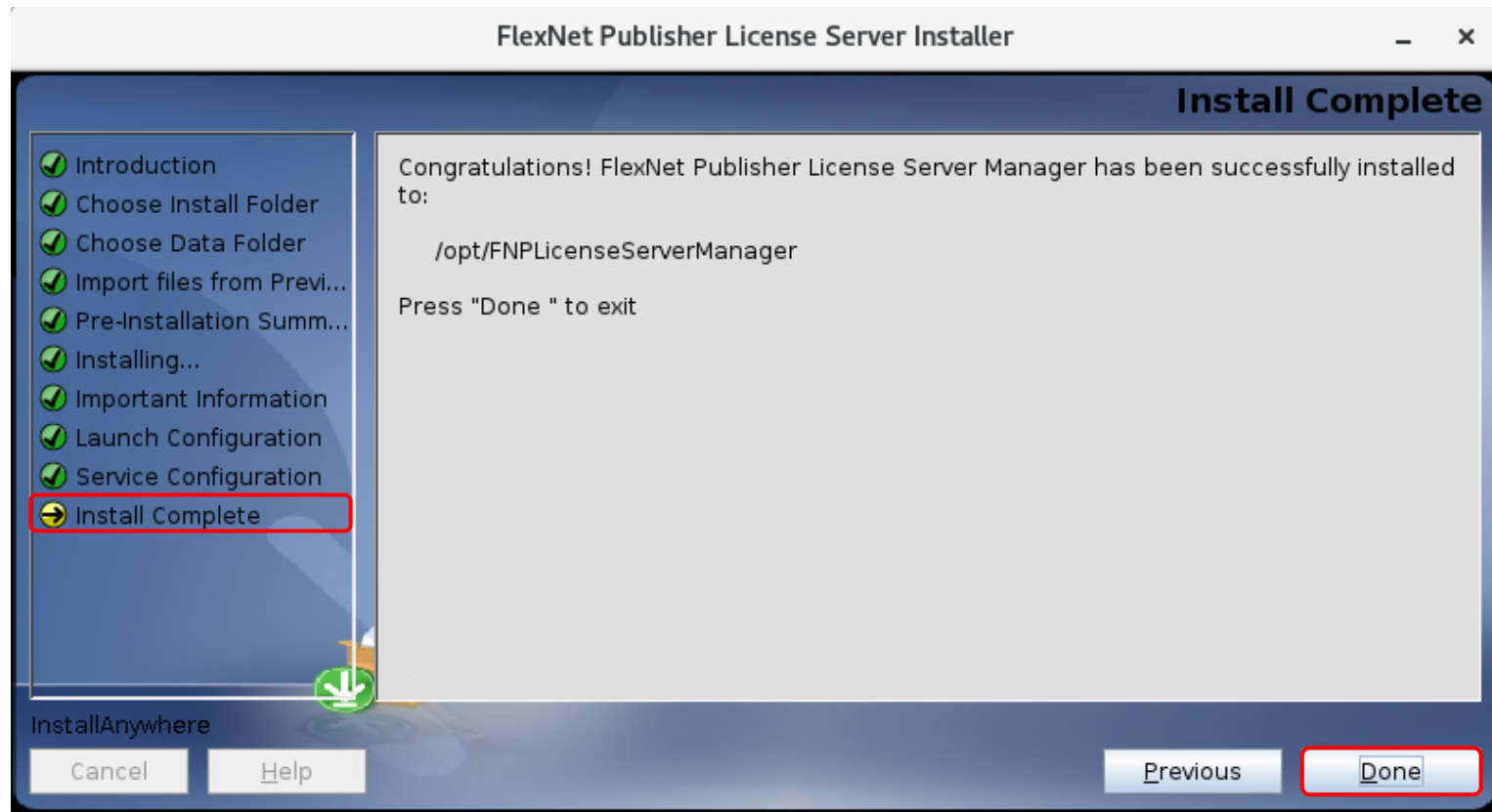
❖ Flexera software 설치

- "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

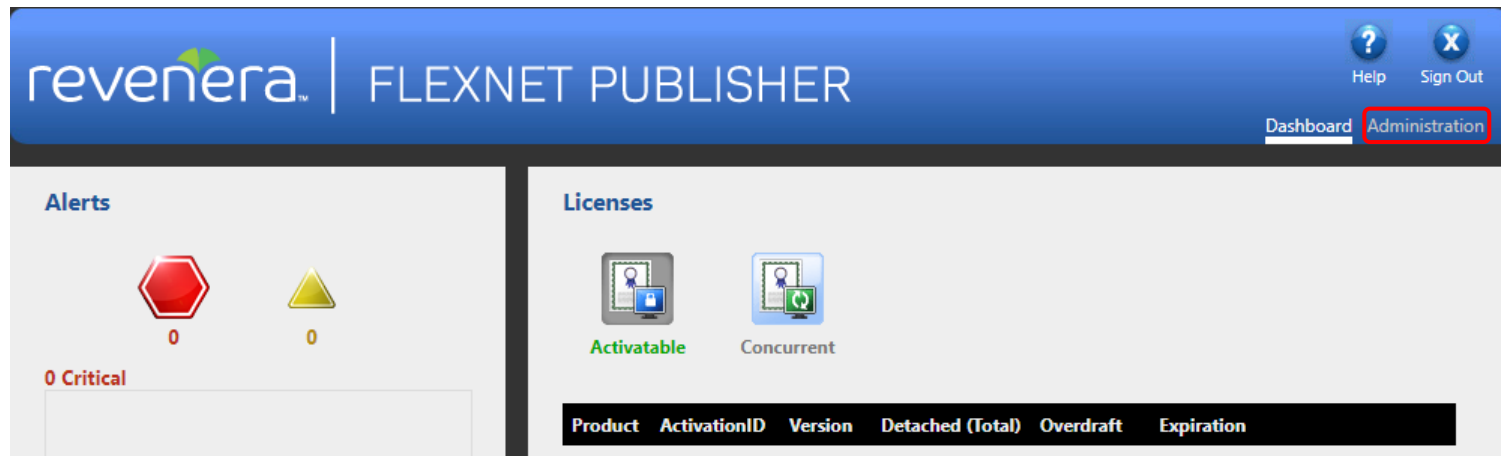
```
[root@kwenc FNPLicenseServerManager]# ll
total 42684
-rwxr-xr-x. 1 root root 1522816 Oct 26 2022 AMAT
drwxrwxr-x. 2 root root 96 Jun 13 14:39 conf
drwxrwxr-x. 2 root root 38 Apr 26 11:31 demo
drwxrwxr-x. 5 root root 51 Apr 26 11:31 examples
-rw-r--r--. 1 root root 10849572 May 18 2022 libcrypto.so
-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/>



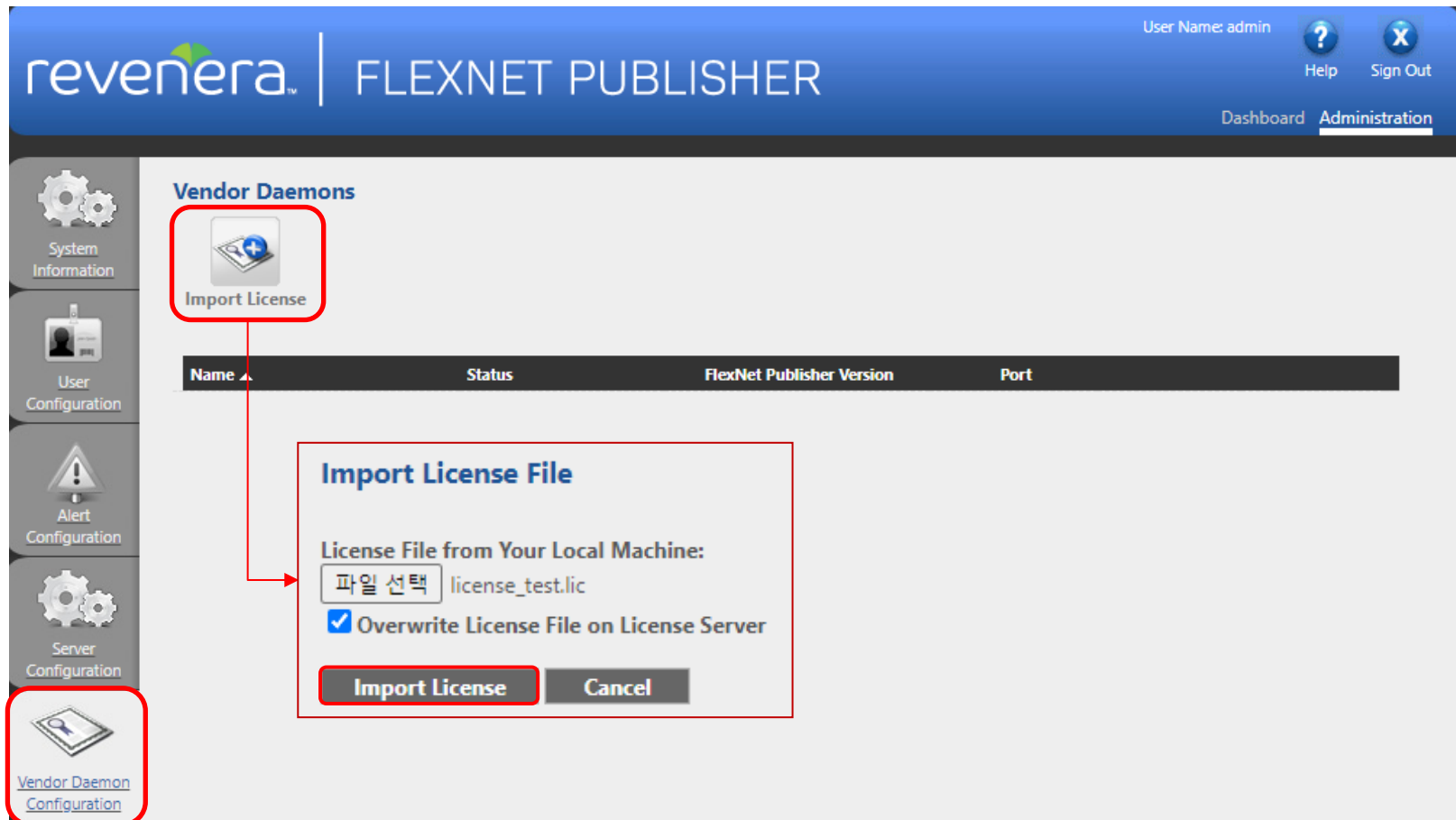
→ 오른쪽 상단 Administration을 클릭하여 아래 정보를 통해 로그인

user=admin / password=admin

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

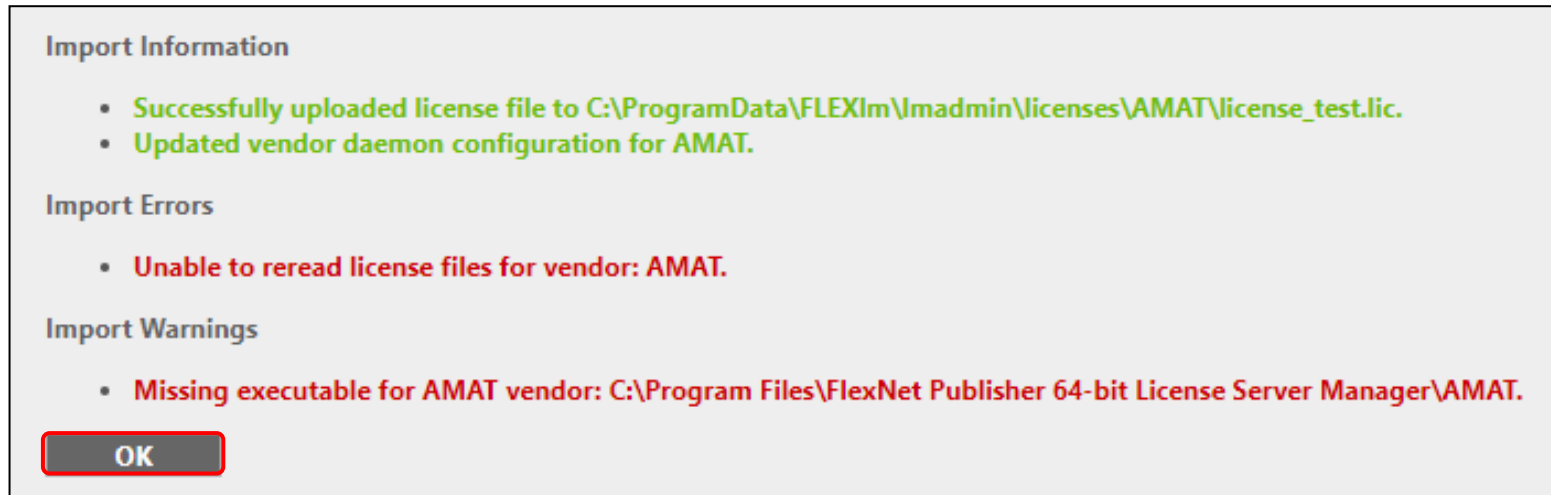
❖ FNP license service 활성화

- 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



revenera | FLEXNET PUBLISHER

User Name: admin Help Sign Out

Dashboard Administration

Vendor Daemons

Import License

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

❖ FNP license service 활성화

Vendor Daemon:AMAT

Vendor Daemon Actions

④ **Start**

General Configuration

* License File or Directory
/home/kwenc/license/AMAT/license_test.lic

① **Vendor Daemon Location:**
/home/kwenc/software/2023/LICENSES_11.19-linux-x64-intel19-glibc2.17/AMAT ← 8페이지 참고

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

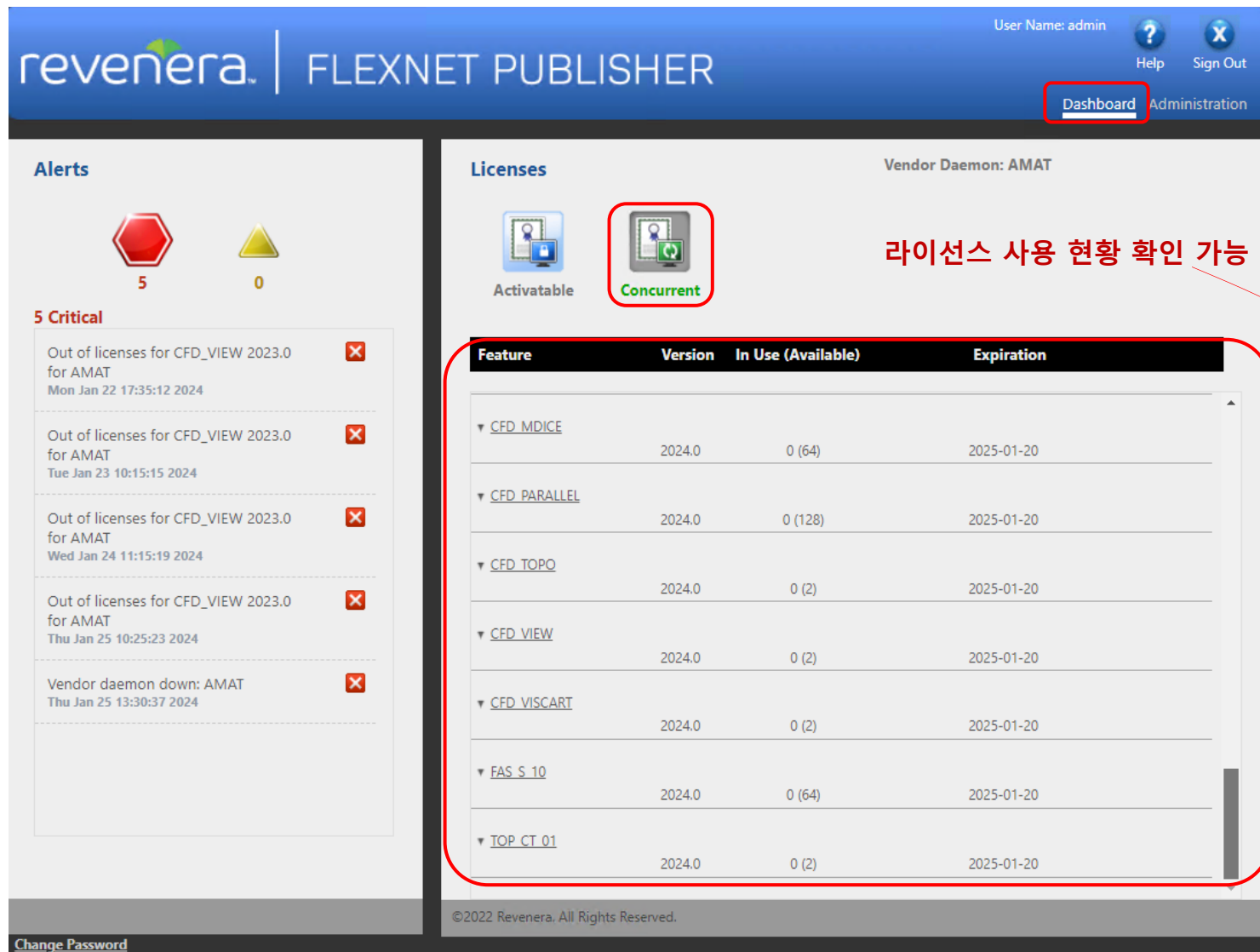
- 라이선스 관리자는 웹 인터페이스를 통해 구성

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



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

❖ FNP license service 활성화



revenera | FLEXNET PUBLISHER

User Name: admin Help Sign Out

Dashboard Administration

Alerts

5 Critical

- Out of licenses for CFD_VIEW 2023.0 for AMAT
Mon Jan 22 17:35:12 2024
- Out of licenses for CFD_VIEW 2023.0 for AMAT
Tue Jan 23 10:15:15 2024
- Out of licenses for CFD_VIEW 2023.0 for AMAT
Wed Jan 24 11:15:19 2024
- Out of licenses for CFD_VIEW 2023.0 for AMAT
Thu Jan 25 10:25:23 2024
- Vendor daemon down: AMAT
Thu Jan 25 13:30:37 2024

Licenses Vendor Daemon: AMAT

Activatable Concurrent

라이선스 사용 현황 확인 가능

Feature	Version	In Use (Available)	Expiration
CFD_MDICE	2024.0	0 (64)	2025-01-20
CFD_PARALLEL	2024.0	0 (128)	2025-01-20
CFD_TOPO	2024.0	0 (2)	2025-01-20
CFD_VIEW	2024.0	0 (2)	2025-01-20
CFD_VISCART	2024.0	0 (2)	2025-01-20
FAS_S_10	2024.0	0 (64)	2025-01-20
TOP_CT_01	2024.0	0 (2)	2025-01-20

©2022 Revenera. All Rights Reserved.

[Change Password](#)

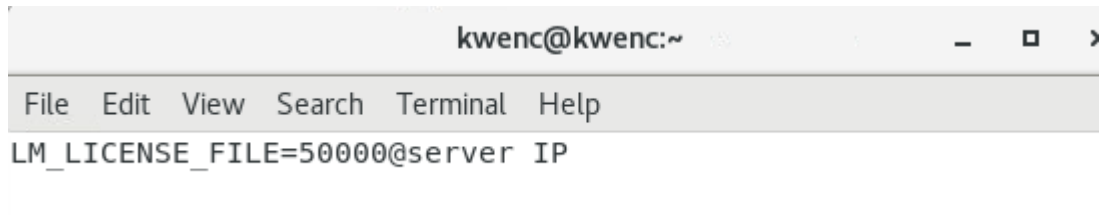
사용자 환경 설정

- 사용자 환경 설정하기 (프로그램을 사용할 사용자 계정에서 실행)

1. 사용자 계정 home 디렉토리에서 .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 /usr/local/KWENC

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

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

```
export PATH=$ACE_SUITE_HOME/ACE+Suite/2024.0/UTILS/bin:$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=

# User specific aliases and functions

export ACE_SUITE_HOME=/usr/local/KWENC
export PATH=$ACE_SUITE_HOME/ACE+Suite/2024.0/UTILS/bin:$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(23page) 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

Address : 704, Woolim Lions Valley, 311-3 Sangdaewon, Jungwon, Seongnam, Gyeonggi,
462-806 Korea

Copyright(c)KWENC, All right reserved.
