

1-2 ProjectView 설치

ProjectView 설치

설치 디렉토리 생성

임시 디렉토리 및 설치 디렉토리를 생성하고 소유권을 설정한다.

```
projectview@projectview:~$ sudo mkdir -p /app/installer
projectview@projectview:~$ sudo mkdir -p /app/projectview
projectview@projectview:~$ sudo chown -R projectview:projectview /app
```

설치 파일 준비

임시 디렉토리에 설치 파일을 복사한다.

```
projectview@projectview:~/다운로드$ cd projectview
projectview@projectview:~/다운로드/projectview$ ls
projectview-installer-v2.0.5.tar
projectview@projectview:~/다운로드/projectview$ cp *.tar /app/installer
projectview@projectview:~/다운로드/projectview$ cd /app/installer
projectview@projectview:/app/installer$ ls
projectview-installer-v2.0.5.tar
```

설치 파일 해제

설치 파일 아카이브를 해제한다.

```
projectview@projectview:/app/installer$ ls
projectview-installer-v2.0.5.tar
projectview@projectview:/app/installer$ tar -xvf *.tar
./
./.git/
./.git/branches/
./.git/description
./.git/hooks/
./.git/hooks/applypatch-msg.sample
... 생략 ...
./data/database/postgresql.conf
./data/database/postmaster.opts
./docker-compose.yml
./install.sh
./projectview-v2.0.5.tgz
```

설정 파일 편집

설정 파일을 vi 편집기나 Visual Studio Code로 편집한다.

```
projectview@projectview:/app/installer$ ls
LICENSE                                common.sh                               data
projectview-installer-v2.0.5.tar
Projectview_Open_Source_License.doc  config.env                             docker-
compose.yml  projectview-v2.0.5.tgz
README.md                                create_nginx_log_rotate.sh  install.sh
projectview@projectview:/app/installer$ vi config.env
```

파일 내용을 필요에 따라 현행화한다.

- PROJECTVIEW_VERSION: 설치 파일 버전
- INSTALL_TARGET_PATH: 설치 디렉토리

```
# ProjectView Version - Use for docker image version to load and docker compose
PROJECTVIEW_VERSION=v2.0.5

# Install target directory path
INSTALL_TARGET_PATH=/app/projectview

# Path to install postgresql database data files
DATABASE_DATA_PATH=${INSTALL_TARGET_PATH}/postgresql/data

# Path of attach files, logs
PROJECTVIEW_ATTACH_FILE_PATH=${INSTALL_TARGET_PATH}/uploadFiles
PROJECTVIEW_LOG_PATH=${INSTALL_TARGET_PATH}/logs
```

설치 스크립트 실행

설치 스크립트에 실행 권한을 부여한 후 실행한다.

```
projectview@projectview:/app/installer$ ls -al
total 8414684
drwxr-xr-x 4 projectview projectview    4096  4월 11 18:20 .
drwxr-xr-x 4 projectview projectview    4096  4월 11 18:08 ..
drwxr-xr-x 8 projectview projectview    4096  3월 27 16:13 .git
-rw-r--r-- 1 projectview projectview    1801  3월 27 16:13 LICENSE
-rw-r--r-- 1 projectview projectview 3200000 3월 27 16:13
Projectview_Open_Source_License.doc
-rw-r--r-- 1 projectview projectview     57  3월 27 16:13 README.md
-rw-r--r-- 1 projectview projectview   3373  3월 27 16:13 common.sh
-rw-r--r-- 1 projectview projectview    429  3월 27 16:13 config.env
-rw-r--r-- 1 projectview projectview    520  3월 27 16:13
```

```
create_nginx_log_rotate.sh
drwxr-xr-x 5 projectview projectview      4096  3월 27 16:13 data
-rw-r--r-- 1 projectview projectview      7191  3월 27 16:13 docker-compose.yml
-rw-r--r-- 1 projectview projectview      3181  3월 27 16:13 install.sh
-rwxr-xr-x 1 projectview projectview 4337397760  4월 11 17:57 projectview-
installer-v2.0.5.tar
-rw-r--r-- 1 projectview projectview 4275975470  3월 27 16:21 projectview-
v2.0.5.tgz
projectview@projectview:/app/installer$ chmod u+x install.sh
projectview@projectview:/app/installer$ ./install.sh
```

--- ProjectView installation is started.----

[Step 1]: checking if docker is installed ...

Note: docker version: 26.0.0

[Step 2]: checking docker-compose is installed ...

Note: Docker Compose version v2.25.0

[Step 3]: loading ProjectView docker images ...

→ Load projectview v2.0.4

open ./projectview-v2.0.4.tgz: no such file or directory

projectview@projectview:/app/installer\$ vi config.env

projectview@projectview:/app/installer\$./install.sh

--- ProjectView installation is started.----

[Step 1]: checking if docker is installed ...

Note: docker version: 26.0.0

[Step 2]: checking docker-compose is installed ...

Note: Docker Compose version v2.25.0

[Step 3]: loading ProjectView docker images ...

... 생략 ...

Loaded image: projectview/base-frontend:rhel-8.9-1107.1705420509-nginx-1.25.3

a92c9b75e345: Loading layer [=====>]

3.072kB/3.072kB

76c48870636f: Loading layer [=====>]

80.59MB/80.59MB

3f4dda9d2290: Loading layer [=====>]

6.144kB/6.144kB

Loaded image: projectview/pms-server-frontend:v2.0.5

[Step 4]: preparing environment ...

→ Install target path : /app/projectview

→ Database install path : /app/projectview/postgresql/data

```

→ Directory for database data is created. - /app/projectview/postgresql/data
→ Copy initial database files.
→ Directory for attach files is created. - /app/projectview/uploadFiles
→ Directory for log files is created. - /app/projectview/logs
→ Copy nginx conf files.
→ Copy cert files.
→ Copy service scripts.

```

Note: stopping existing ProjectView instance ...

Warning: No resource found to remove for project "projectview".

[Step 5]: starting ProjectView ...

WARN[0000] /app/installer/docker-compose.yml: `version` is obsolete

[+] Running 11/12

⋮ Network projectview_promise-network Created

212.7s

✓ Container pms-redis Healthy

27.2s

✓ Container pms-postgresql Healthy

27.2s

✓ Container pms-manual Healthy

181.8s

✓ Container pms-server-backend Healthy

139.2s

✓ Container ph-server-backend Healthy

171.1s

✓ Container pms-multi-dashboard Healthy

170.6s

✓ Container pms-batch Healthy

187.9s

✓ Container pms-mail Healthy

171.1s

✓ Container ph-server-frontend Healthy

186.5s

✓ Container pms-server-frontend Healthy

186.5s

✓ Container pms-nginx Healthy

202.1s

✓ --- ProjectView has been installed and started successfully.----

설치 완료 후 자동으로 실행된다.

설치 결과 확인

설치 디렉토리를 확인한다.

```

projectview@projectview:/app/projectview$ ls
backup-projectview.sh  conf          docker-compose.yml  postgresql

```

```

startup-projectview.sh
cert                  config.env  logs                  shutdown-projectview.sh
uploadFiles

```

디렉토리

- cert : 도메인 인증서 디렉토리
- conf : 웹서버 설정 파일 디렉토리
- logs : 서비스 별 로그 파일 디렉토리
- postgresql : 데이터베이스 데이터 디렉토리
- uploadFiles : 첨부 파일 디렉토리

파일

- config.env : ProjectView 설정 파일
- docker-compose.yml : docker compose 설정 파일
- shutdown-projectview.sh : ProjectView 서비스 종료 스크립트 파일
- startup-projectview.sh : ProjectView 서비스 시작 스크립트 파일

실행 프로세스 확인

실행된 docker 프로세스를 확인한다.

```

projectview@projectview:/app/projectview$ docker ps
CONTAINER ID   IMAGE
COMMAND          CREATED          STATUS          PORTS
NAMES
8966615b8065   projectview/base-frontend:rhel-8.9-1107.1705420509-nginx-1.25.3
"/usr/local/nginx/sb..." About an hour ago Up 59 minutes (healthy)
0.0.0.0:443->443/tcp, :::443->443/tcp
pms-nginx
bddee6b15225   projectview/ph-server-frontend:v2.0.5
"/usr/local/nginx/sb..." About an hour ago Up 59 minutes (healthy)
0.0.0.0:8020->8020/tcp, :::8020->8020/tcp
ph-server-frontend
f3d595bf75fa   projectview/pms-server-frontend:v2.0.5
"/usr/local/nginx/sb..." About an hour ago Up 59 minutes (healthy)
0.0.0.0:8090->8090/tcp, :::8090->8090/tcp
pms-server-frontend
19654ef23787   projectview/pms-batch:v2.0.5
"/bin/sh -c 'exec ja..." About an hour ago Up About an hour (healthy)
0.0.0.0:8081->8081/tcp, :::8081->8081/tcp
pms-batch
be6aa42ad016   projectview/pms-mail:v2.0.5
"/bin/sh -c 'exec ja..." About an hour ago Up About an hour (healthy)
0.0.0.0:8050->8050/tcp, :::8050->8050/tcp
pms-mail
20fc2cc468e5   projectview/pms-multi-dashboard:v2.0.5

```

```

"/bin/sh -c 'exec ja..." About an hour ago Up About an hour (healthy)
0.0.0.0:8060->8060/tcp, :::8060->8060/tcp
pms-multi-dashboard
8fad26f4b067 projectview/ph-server-backend:v2.0.5
"java -jar /promise-..." About an hour ago Up About an hour (healthy)
0.0.0.0:8010->8010/tcp, :::8010->8010/tcp
ph-server-backend
381e2b1bb0c1 projectview/pms-server-backend:v2.0.5
"/bin/sh -c 'exec ja..." About an hour ago Up About an hour (healthy)
0.0.0.0:8080->8080/tcp, :::8080->8080/tcp
pms-server-backend
c44734e168d9 projectview/pms-manual:v2.0.5
"/usr/local/nginx/sb..." About an hour ago Up About an hour (healthy) 80/tcp,
5432/tcp, 8080-8081/tcp, 8090/tcp, 0.0.0.0:8088->8088/tcp, :::8088->8088/tcp
pms-manual
f0df3a8b86e8 projectview/postgres:13.13
"docker-entrpoint.s..." About an hour ago Up About an hour (healthy)
5432/tcp, 0.0.0.0:35432->35432/tcp, :::35432->35432/tcp
pms-postgresql
0eab33a92799 projectview/redis:7.2.3
"docker-entrpoint.s..." About an hour ago Up About an hour (healthy)
0.0.0.0:36379->6379/tcp, :::36379->6379/tcp
pms-redis

```

서비스 종료

실행 중인 서비스를 종료한다.

```

projectview@projectview:/app/projectview$ ls
backup-projectview.sh cert conf config.env docker-compose.yml logs
postgresql shutdown-projectview.sh startup-projectview.sh uploadFiles
projectview@projectview:/app/projectview$ ./shutdown-projectview.sh
[+] Running 12/12
✓ Container pms-batch Removed
0.4s
✓ Container pms-nginx Removed
0.3s
✓ Container ph-server-frontend Removed
0.5s
✓ Container pms-server-frontend Removed
0.7s
✓ Container pms-manual Removed
0.4s
✓ Container pms-mail Removed
0.6s
✓ Container pms-multi-dashboard Removed
0.5s
✓ Container ph-server-backend Removed
0.7s
✓ Container pms-server-backend Removed

```

```

0.7s
✓ Container pms-postgresql      Removed
0.4s
✓ Container pms-redis           Removed
0.5s
✓ Network projectview_promise-network  Removed
0.4s

```

서비스 시작

서비스를 시작한다.

```

projectview@projectview:/app/projectview$ ls
backup-projectview.sh  cert  conf  config.env  docker-compose.yml  logs
postgresql  shutdown-projectview.sh  startup-projectview.sh  uploadFiles
projectview@projectview:/app/projectview$ ./startup-projectview.sh
Warning: No resource found to remove for project "projectview".
WARN[0000] /app/projectview/docker-compose.yml: `version` is obsolete
[+] Running 11/12
  :: Network projectview_promise-network  Created
139.4s
✓ Container pms-postgresql      Healthy
16.0s
✓ Container pms-manual          Healthy
108.6s
✓ Container pms-redis           Healthy
16.0s
✓ Container pms-mail            Healthy
47.7s
✓ Container ph-server-backend   Healthy
62.7s
✓ Container pms-batch           Healthy
124.3s
✓ Container pms-server-backend  Healthy
107.7s
✓ Container pms-multi-dashboard Healthy
47.7s
✓ Container ph-server-frontend  Healthy
123.5s
✓ Container pms-server-frontend Healthy
123.5s
✓ Container pms-nginx           Healthy
139.2s

```

서버 IP 주소 확인

클라이언트에서 서버로 접속하기 위한 IP 주소를 확인한다.

```
projectview@projectview:~$ ifconfig
br-4e362cda3ae4: flags=4163<UP,BROADCAST,RUNNING,MULTICAST> mtu 1500
    inet 192.168.30.1 netmask 255.255.255.0 broadcast 192.168.30.255
    inet6 fe80::42:e0ff:fe68:fda8 prefixlen 64 scopeid 0x20<link>
    ether 02:42:e0:68:fd:a8 txqueuelen 0 (Ethernet)
    RX packets 477 bytes 40616 (39.6 KiB)
    RX errors 0 dropped 0 overruns 0 frame 0
    TX packets 408 bytes 66863 (65.2 KiB)
    TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0

docker0: flags=4099<UP,BROADCAST,MULTICAST> mtu 1500
    inet 172.17.0.1 netmask 255.255.0.0 broadcast 172.17.255.255
    ether 02:42:17:96:da:7e txqueuelen 0 (Ethernet)
    RX packets 0 bytes 0 (0.0 B)
    RX errors 0 dropped 0 overruns 0 frame 0
    TX packets 0 bytes 0 (0.0 B)
    TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0

enp3s0: flags=4099<UP,BROADCAST,MULTICAST> mtu 1500
    ether 98:83:89:43:66:98 txqueuelen 1000 (Ethernet)
    RX packets 0 bytes 0 (0.0 B)
    RX errors 0 dropped 0 overruns 0 frame 0
    TX packets 0 bytes 0 (0.0 B)
    TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0

lo: flags=73<UP,LOOPBACK,RUNNING> mtu 65536
    inet 127.0.0.1 netmask 255.0.0.0
    inet6 ::1 prefixlen 128 scopeid 0x10<host>
    loop txqueuelen 1000 (Local Loopback)
    RX packets 413978 bytes 29534429 (28.1 MiB)
    RX errors 0 dropped 0 overruns 0 frame 0
    TX packets 413978 bytes 29534429 (28.1 MiB)
    TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0

veth57b0db0: flags=4163<UP,BROADCAST,RUNNING,MULTICAST> mtu 1500
    inet6 fe80::d063:faff:fe67:dbbd prefixlen 64 scopeid 0x20<link>
    ether d2:63:fa:67:db:bd txqueuelen 0 (Ethernet)
    RX packets 10510 bytes 2917047 (2.7 MiB)
    RX errors 0 dropped 0 overruns 0 frame 0
    TX packets 15620 bytes 1511974 (1.4 MiB)
    TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0

veth664b285: flags=4163<UP,BROADCAST,RUNNING,MULTICAST> mtu 1500
    inet6 fe80::2cdf:ebff:fe7c:21c1 prefixlen 64 scopeid 0x20<link>
    ether 2e:df:eb:7c:21:c1 txqueuelen 0 (Ethernet)
    RX packets 35148 bytes 3275279 (3.1 MiB)
    RX errors 0 dropped 0 overruns 0 frame 0
    TX packets 27209 bytes 19124436 (18.2 MiB)
    TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0

veth76005c5: flags=4163<UP,BROADCAST,RUNNING,MULTICAST> mtu 1500
    inet6 fe80::fc98:c3ff:febd:6a0e prefixlen 64 scopeid 0x20<link>
    ether fe:98:c3:bd:6a:0e txqueuelen 0 (Ethernet)
```



```
RX packets 11575 bytes 1095648 (1.0 MiB)
RX errors 0 dropped 0 overruns 0 frame 0
TX packets 8987 bytes 2681052 (2.5 MiB)
TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0
```

```
veth8d1ad6f: flags=4163<UP,BROADCAST,RUNNING,MULTICAST> mtu 1500
inet6 fe80::5ca1:60ff:fe42:5029 prefixlen 64 scopeid 0x20<link>
ether 5e:a1:60:42:50:29 txqueuelen 0 (Ethernet)
RX packets 35 bytes 2546 (2.4 KiB)
RX errors 0 dropped 0 overruns 0 frame 0
TX packets 952 bytes 98387 (96.0 KiB)
TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0
```

```
veth9b516c0: flags=4163<UP,BROADCAST,RUNNING,MULTICAST> mtu 1500
inet6 fe80::4df:46ff:fe41:b14f prefixlen 64 scopeid 0x20<link>
ether 06:df:46:41:b1:4f txqueuelen 0 (Ethernet)
RX packets 35 bytes 2546 (2.4 KiB)
RX errors 0 dropped 0 overruns 0 frame 0
TX packets 939 bytes 97145 (94.8 KiB)
TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0
```

```
vethabc5e6f: flags=4163<UP,BROADCAST,RUNNING,MULTICAST> mtu 1500
inet6 fe80::386e:b5ff:fe15:7f82 prefixlen 64 scopeid 0x20<link>
ether 3a:6e:b5:15:7f:82 txqueuelen 0 (Ethernet)
RX packets 122 bytes 15466 (15.1 KiB)
RX errors 0 dropped 0 overruns 0 frame 0
TX packets 1034 bytes 119484 (116.6 KiB)
TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0
```

```
vethaf99464: flags=4163<UP,BROADCAST,RUNNING,MULTICAST> mtu 1500
inet6 fe80::c71:25ff:feaf:c1d2 prefixlen 64 scopeid 0x20<link>
ether 0e:71:25:af:c1:d2 txqueuelen 0 (Ethernet)
RX packets 26259 bytes 19022984 (18.1 MiB)
RX errors 0 dropped 0 overruns 0 frame 0
TX packets 36013 bytes 3357393 (3.2 MiB)
TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0
```

```
vethb95a21b: flags=4163<UP,BROADCAST,RUNNING,MULTICAST> mtu 1500
inet6 fe80::38e2:5cff:fec9:4789 prefixlen 64 scopeid 0x20<link>
ether 3a:e2:5c:c9:47:89 txqueuelen 0 (Ethernet)
RX packets 35 bytes 2546 (2.4 KiB)
RX errors 0 dropped 0 overruns 0 frame 0
TX packets 953 bytes 98457 (96.1 KiB)
TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0
```

```
vethbdb219b: flags=4163<UP,BROADCAST,RUNNING,MULTICAST> mtu 1500
inet6 fe80::e4f7:8cff:fef8:9164 prefixlen 64 scopeid 0x20<link>
ether e6:f7:8c:f8:91:64 txqueuelen 0 (Ethernet)
RX packets 3320 bytes 335644 (327.7 KiB)
RX errors 0 dropped 0 overruns 0 frame 0
TX packets 3250 bytes 420325 (410.4 KiB)
TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0
```

```
vethf81e2fe: flags=4163<UP,BROADCAST,RUNNING,MULTICAST> mtu 1500
```

```

    inet6 fe80::60a2:1dff:fe03:87ca prefixlen 64 scopeid 0x20<link>
    ether 62:a2:1d:03:87:ca txqueuelen 0 (Ethernet)
    RX packets 50 bytes 4103 (4.0 KiB)
    RX errors 0 dropped 0 overruns 0 frame 0
    TX packets 953 bytes 99988 (97.6 KiB)
    TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0

vethf84072a: flags=4163<UP,BROADCAST,RUNNING,MULTICAST> mtu 1500
    inet6 fe80::d0eb:1dff:feb4:686d prefixlen 64 scopeid 0x20<link>
    ether d2:eb:1d:b4:68:6d txqueuelen 0 (Ethernet)
    RX packets 35 bytes 2546 (2.4 KiB)
    RX errors 0 dropped 0 overruns 0 frame 0
    TX packets 953 bytes 98477 (96.1 KiB)
    TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0

wlp2s0: flags=4163<UP,BROADCAST,RUNNING,MULTICAST> mtu 1500
    inet 192.168.0.247 netmask 255.255.255.0 broadcast 192.168.0.255
    inet6 fe80::e7c7:e170:7fb3:6716 prefixlen 64 scopeid 0x20<link>
    ether f8:59:71:72:7c:1b txqueuelen 1000 (Ethernet)
    RX packets 46354 bytes 50962225 (48.6 MiB)
    RX errors 0 dropped 0 overruns 0 frame 0
    TX packets 15844 bytes 3553817 (3.3 MiB)
    TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0

```

위 예에서는 IP 주소가 아래와 같다.

- 192.168.0.247

hosts 파일을 편집한다.

```
projectview@projectview:~$ sudo vi /etc/hosts
```

아래와 같이 IP 주소를 'site.projectview.io' URL을 등록한다.

```

127.0.0.1      localhost
127.0.1.1      projectview
192.168.0.247  site.projectview.io

# The following lines are desirable for IPv6 capable hosts
::1          ip6-localhost ip6-loopback
fe00::0      ip6-localnet
ff00::0      ip6-mcastprefix
ff02::1      ip6-allnodes
ff02::2      ip6-allrouters

```

인증서 등록

- Chrome을 실행한다.
- URL에 'chrome://settings'를 입력하고 해당 페이지로 이동한다.
- 왼쪽에서 '개인 정보 보호 및 보안'을 클릭한다.
- '보안'을 클릭한다.
- '고급'까지 스크롤한다.
- '인증서 관리'를 클릭한다.
- '인증 기관' 탭을 선택한다.
- '가져오기'를 클릭한다.
- 제공된 파일 중 아래 인증서를 선택한다.

```
projectview@projectview:~/다운로드$ ls
certificate  chrome  docker  documents  projectview  utility  'vs code'
projectview@projectview:~/다운로드$ cd certificate
projectview@projectview:~/다운로드/certificate$ ls
'SDS.ACT Root Certificate.crt'
```

- 모든 선택 사항을 설정해서 등록한다.
- 등록 후 인증 기관 목록에 아래 내용이 표시된다.

```
org-SDS
    SDS.ACT Root Certificate
```

웹 브라우저로 서비스 확인

아래 URL로 첫 페이지가 표시되는지 확인한다.

- <https://site.projectview.io>

프로젝트 관리자 등록

로그인 창에서 '회원가입'을 클릭하여 프로젝트 관리자를 등록한다. 가입이 완료되면 등록된 관리자로 자동 로그인된다. 로그인 후 '가입된 프로젝트가 없습니다.'라는 표시가 나오면 정상이다.

시스템 관리자 로그인

시스템 관리자로 로그인한다.

- ID: system.admin
- Password: system.admin01!

로그인에 성공하면 비밀번호를 재설정한다.

Warning 변경된 비밀번호를 잊지 않도록 메모한다.

프로젝트 생성 및 관리자 지정

- '코드 관리 > 회사코드'에서 고객사 코드를 추가한다.
- '코드 관리 > 회사코드'에서 협력사 코드를 추가한다.
- 프로젝트를 생성한다.
- 프로젝트 관리자를 지정한다.

프로젝트 관리자 로그인

로그인 후 '프로젝트 첫 방문입니다.'라는 표시가 나오면 정상이다.

매뉴얼을 참고하여 프로젝트를 관리한다.

- 관리자 매뉴얼 : <https://site.projectview.io/projectview-manual/admin-manual/>
- 사용자 매뉴얼 : <https://site.projectview.io/projectview-manual/user-manual/>