

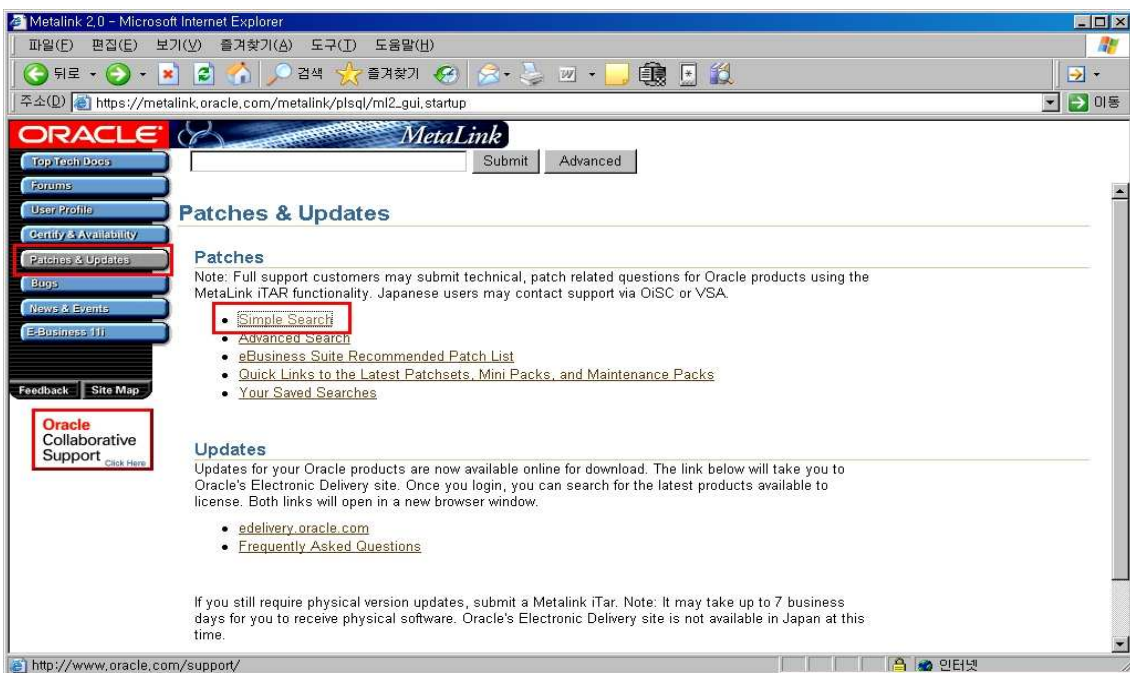
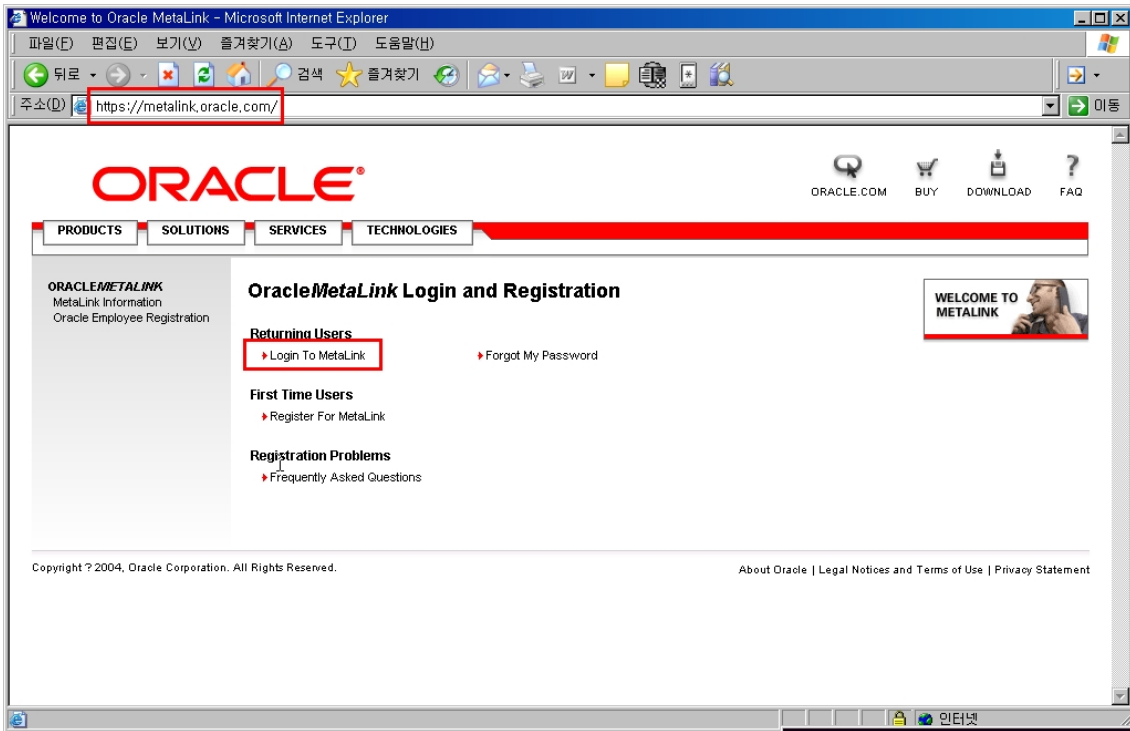
ORACLE PATCHSET UPGRADE

→ written by 유 찬 흥 (rchwin@nate.com http://linuxtown.net)

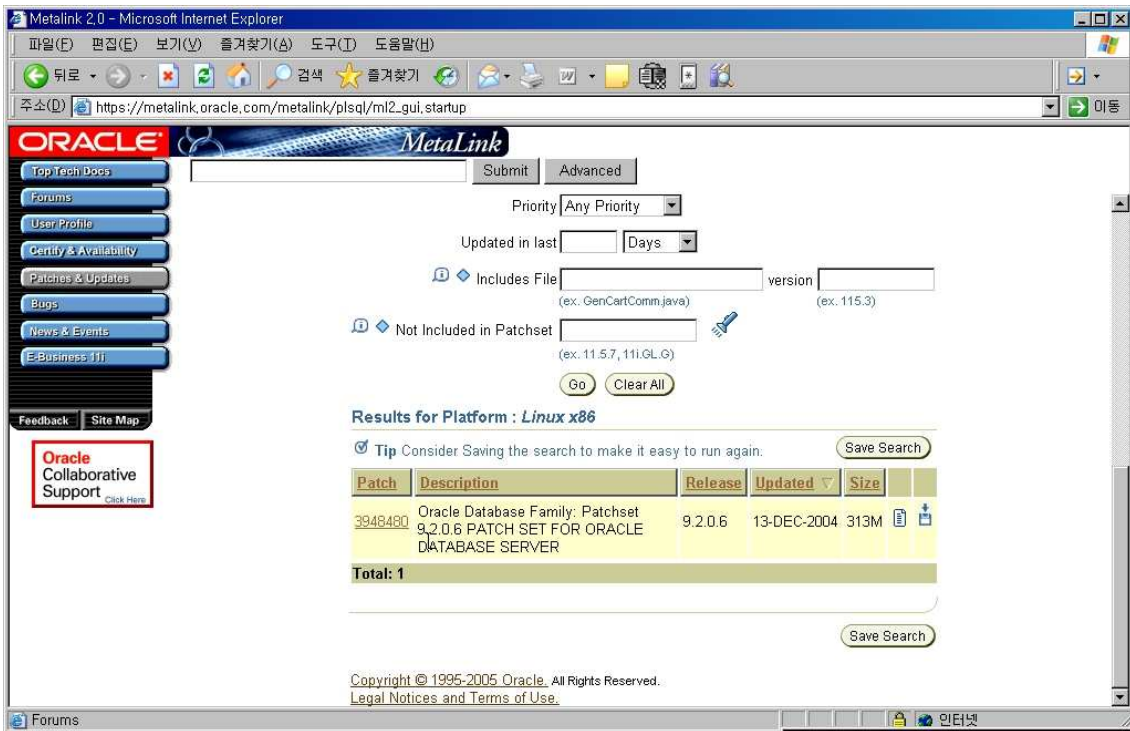
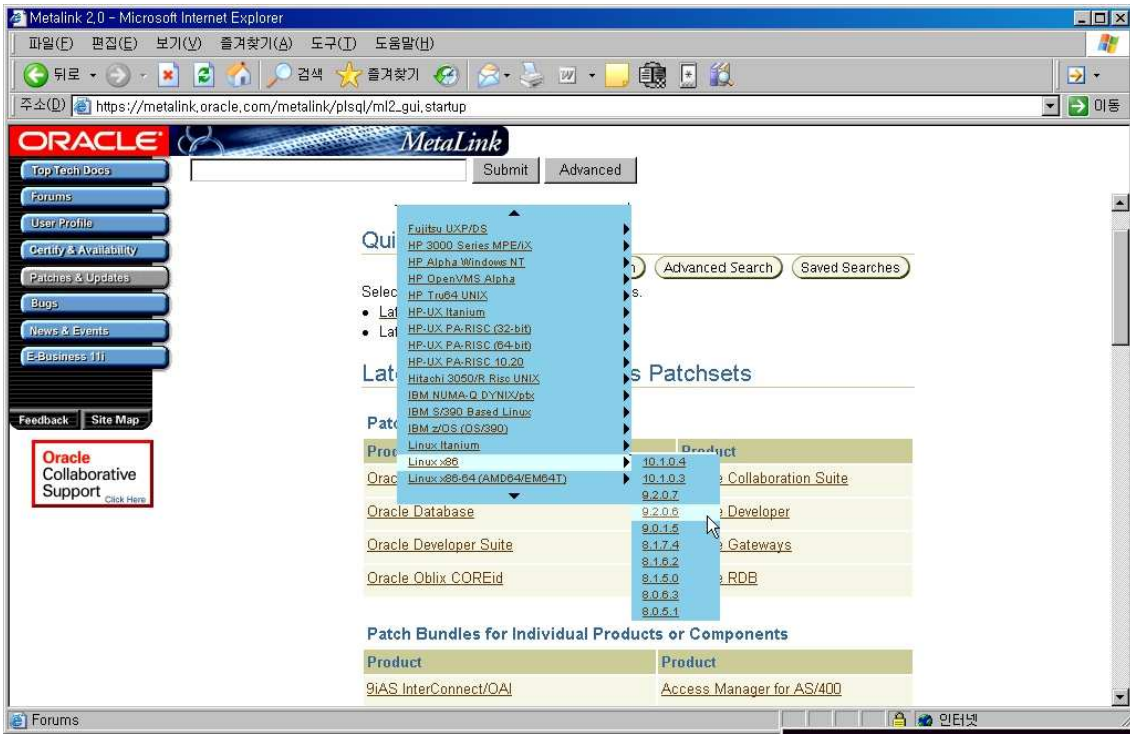
※ 작업전 주의사항

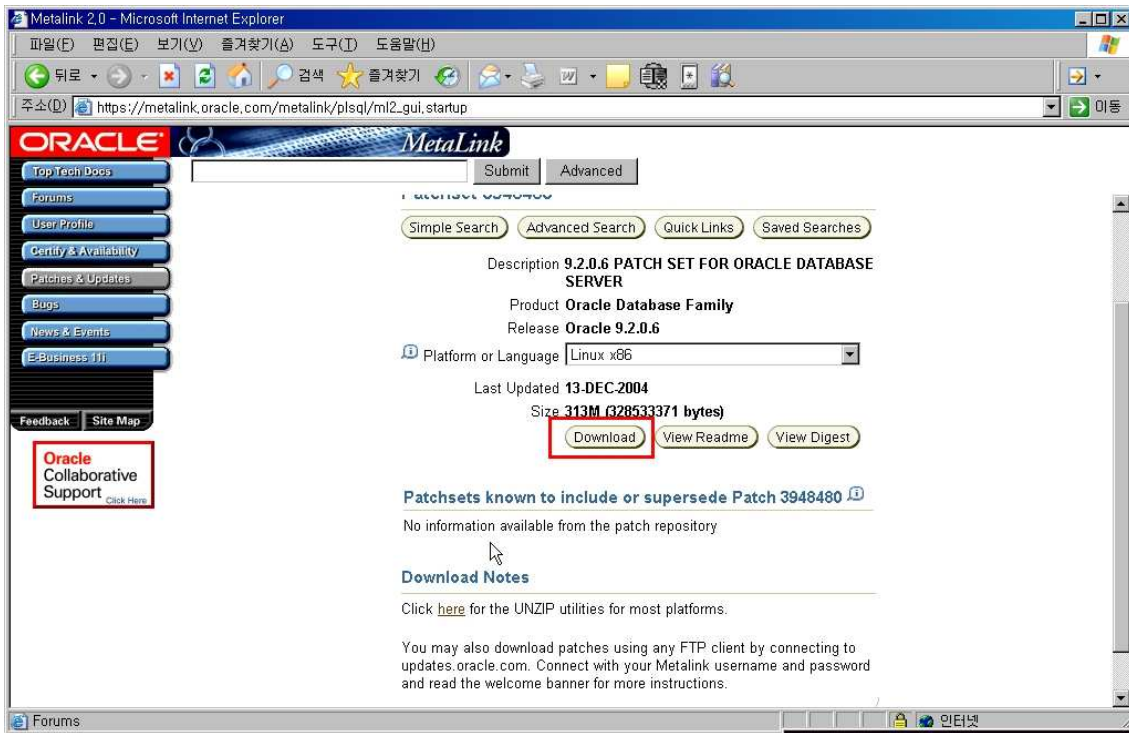
- 반드시 DB 를 종료한후 진행해야 합니다.
- 혹시 모를 장애에 대비하여 반드시 FULL BACKUP 을 한 후 작업을 진행하시길 바랍니다.

1. 오라클 패치를 적용하려면 <https://metalink.oracle.com> 에서 시스템에 맞는 패치파일을 다운받으셔야 합니다. 단 메타링크는 오라클 정식 사용자만 접근이 가능하면 정식사용자는 오라클에서 제공하는 패치셋 및 싱글패치들을 다운 받으실수 있습니다. 아래는 메타링크에서 다운 받는 방법에 관한 방법입니다.

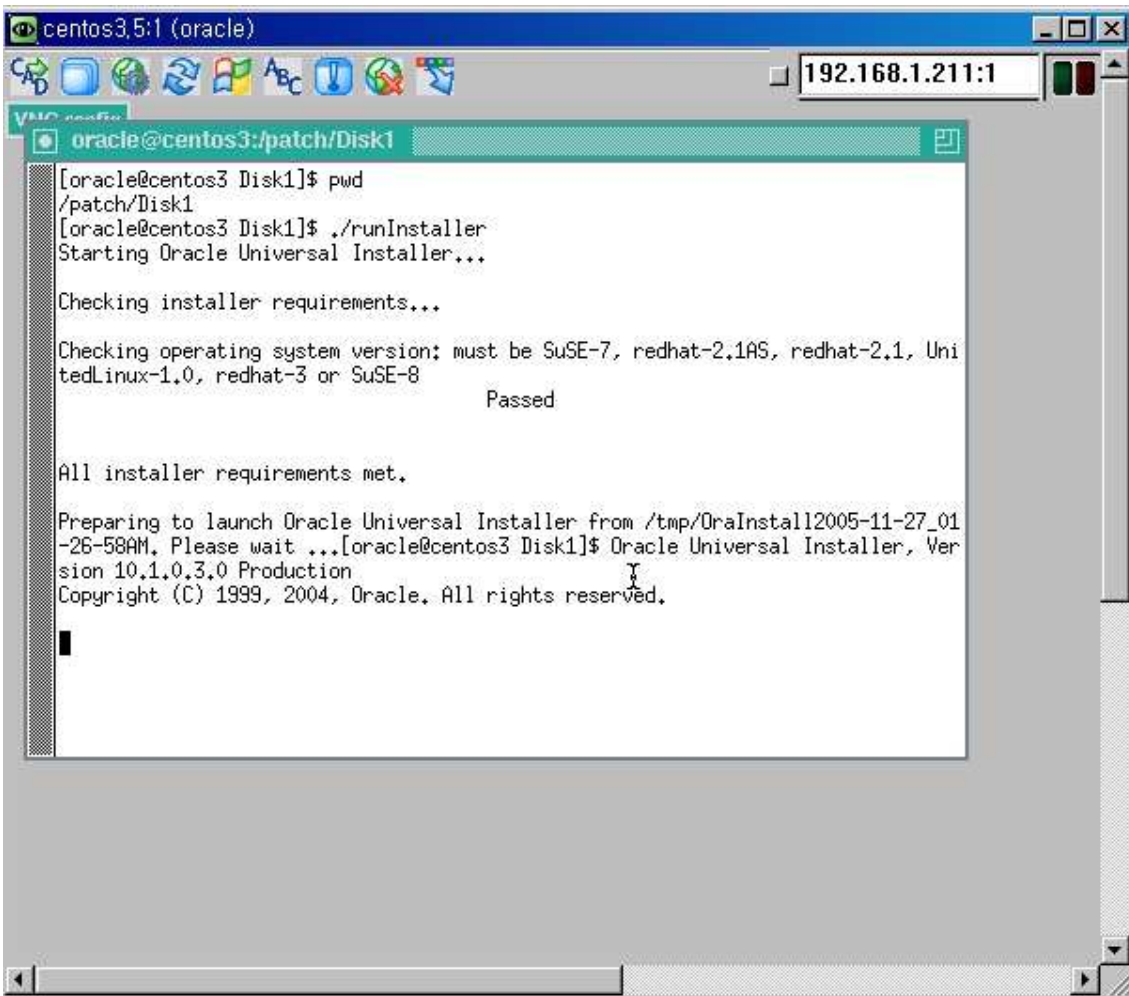


2. 현재 필자가 적용할 시스템은 Centos 3.5 이며 oracle 9.2.0.4 에서 9.2.0.6 으로 적용할 예정입니다.

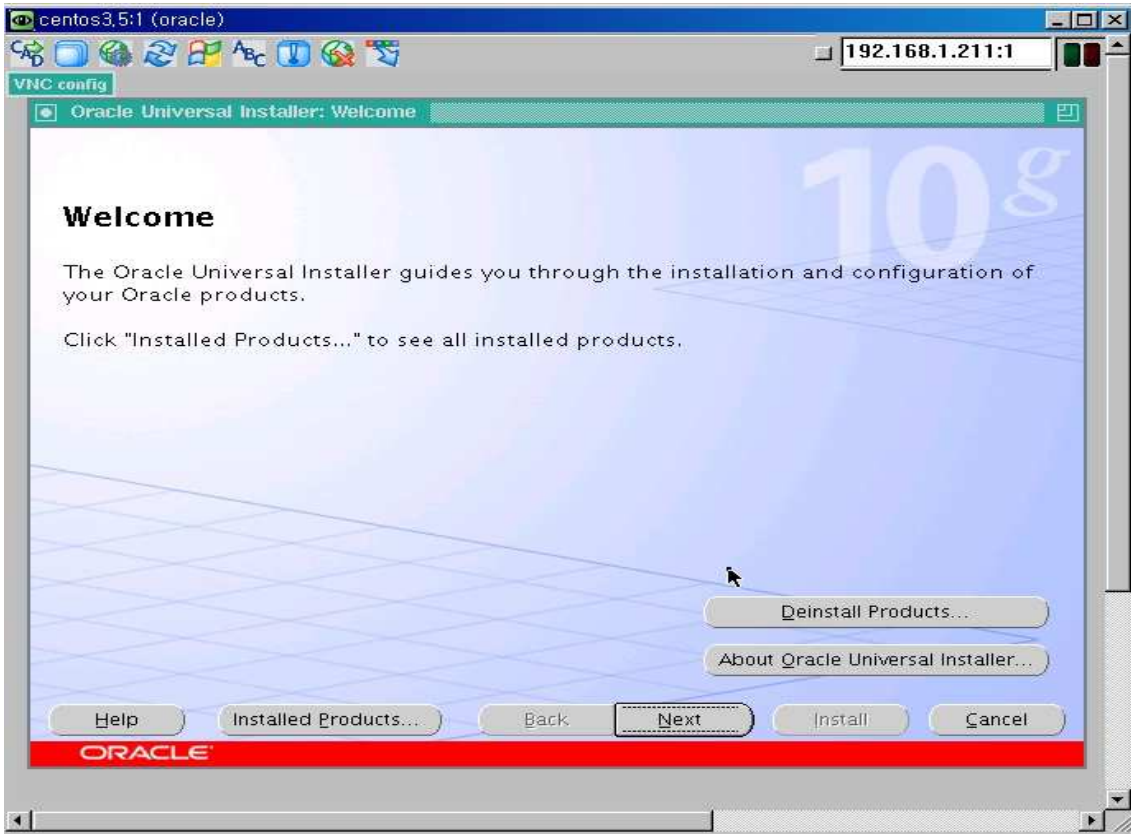




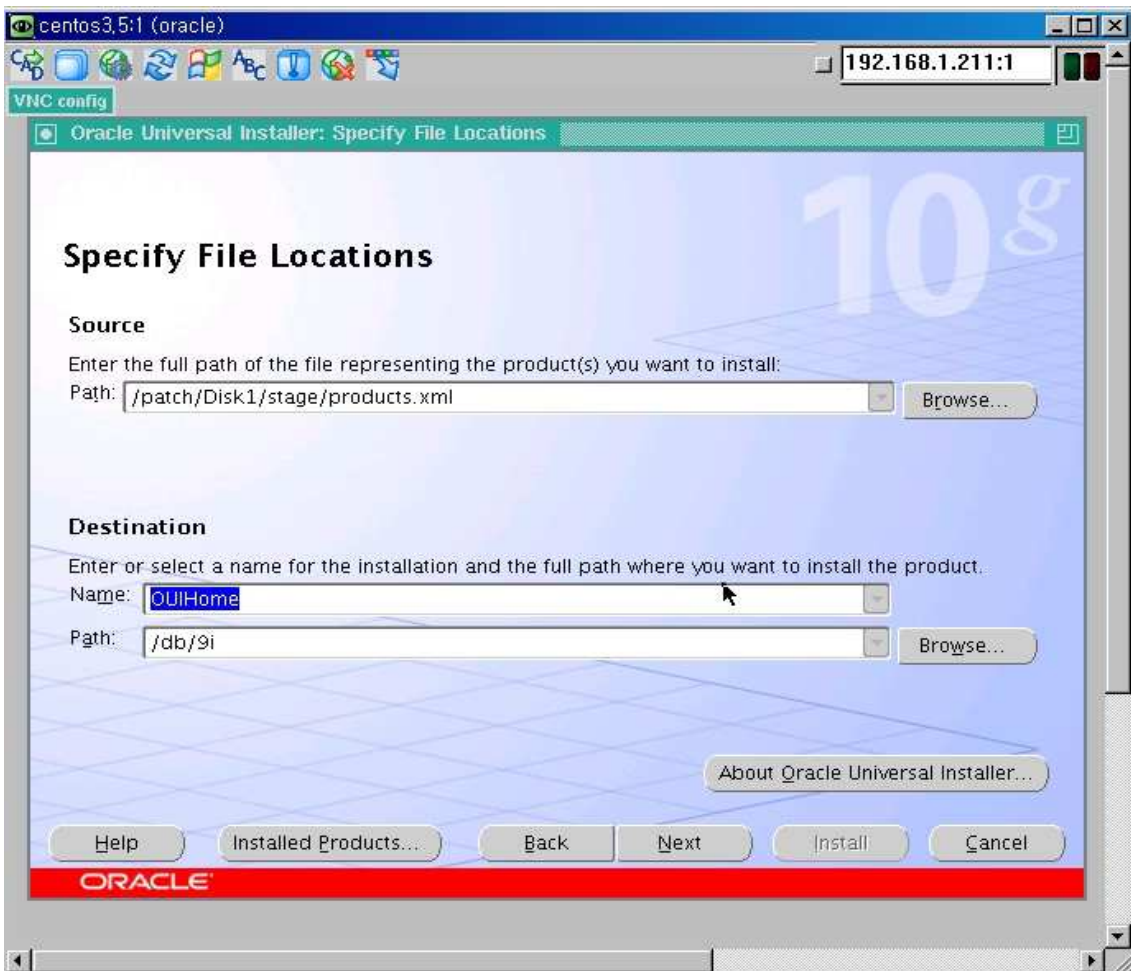
3. 패치를 받은 후 압축을 푼 후 오라클 계정으로 아래와 같이 runInstaller 를 실행합니다.



4. runinstaller 를 실행한 모습입니다.

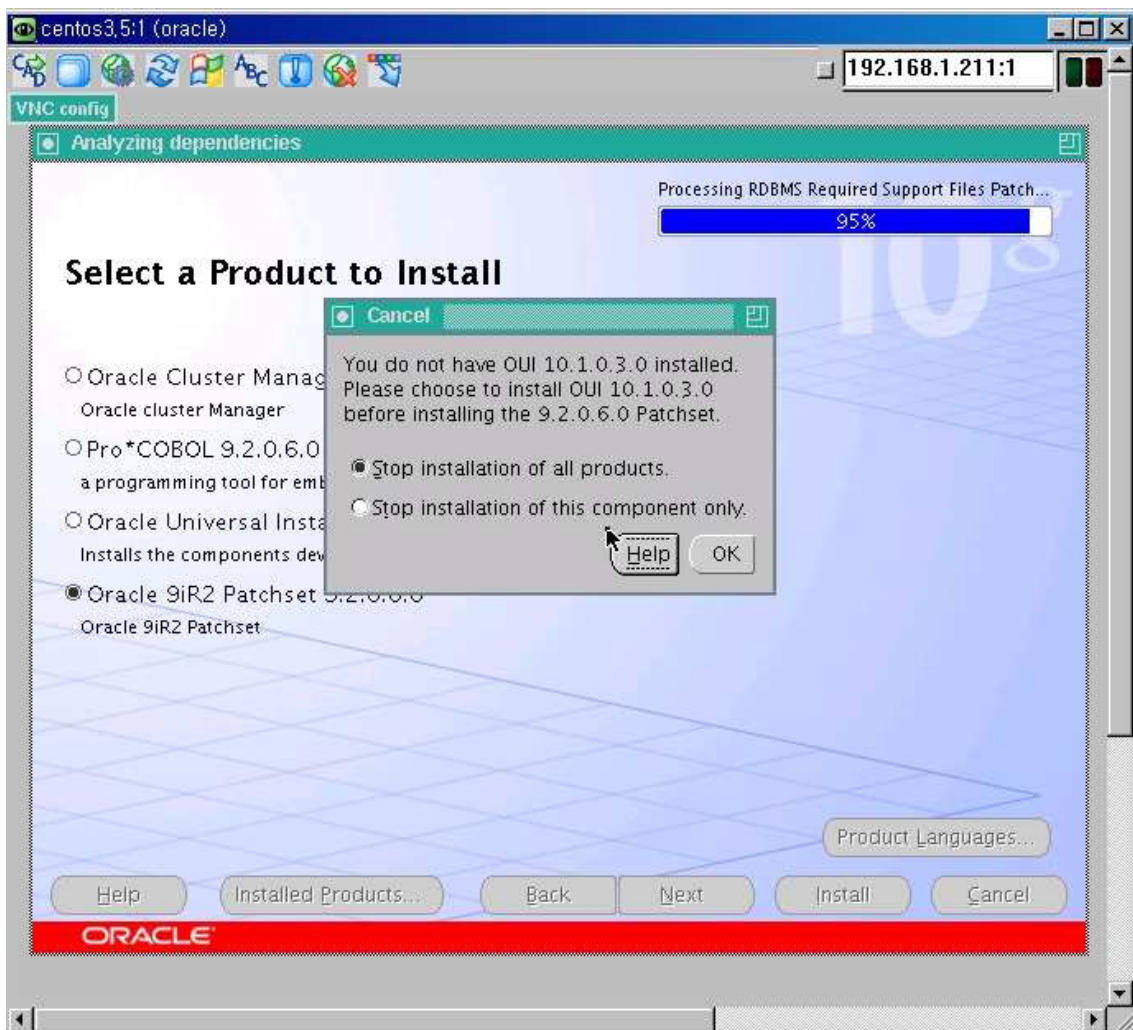
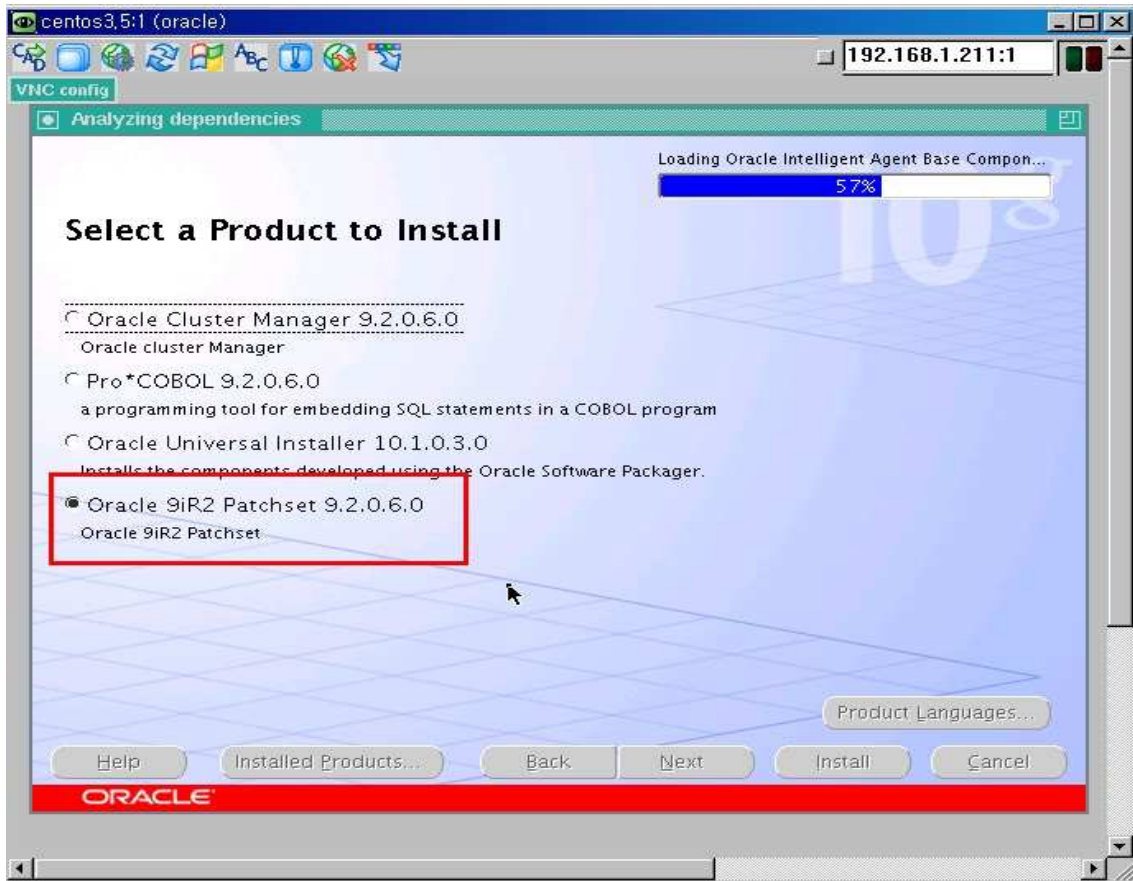


5. source 부분에 다운받은 패치폴더의 products.xml 을 지정하고 Destination 에 OUIHome 을 지정해줍니다.

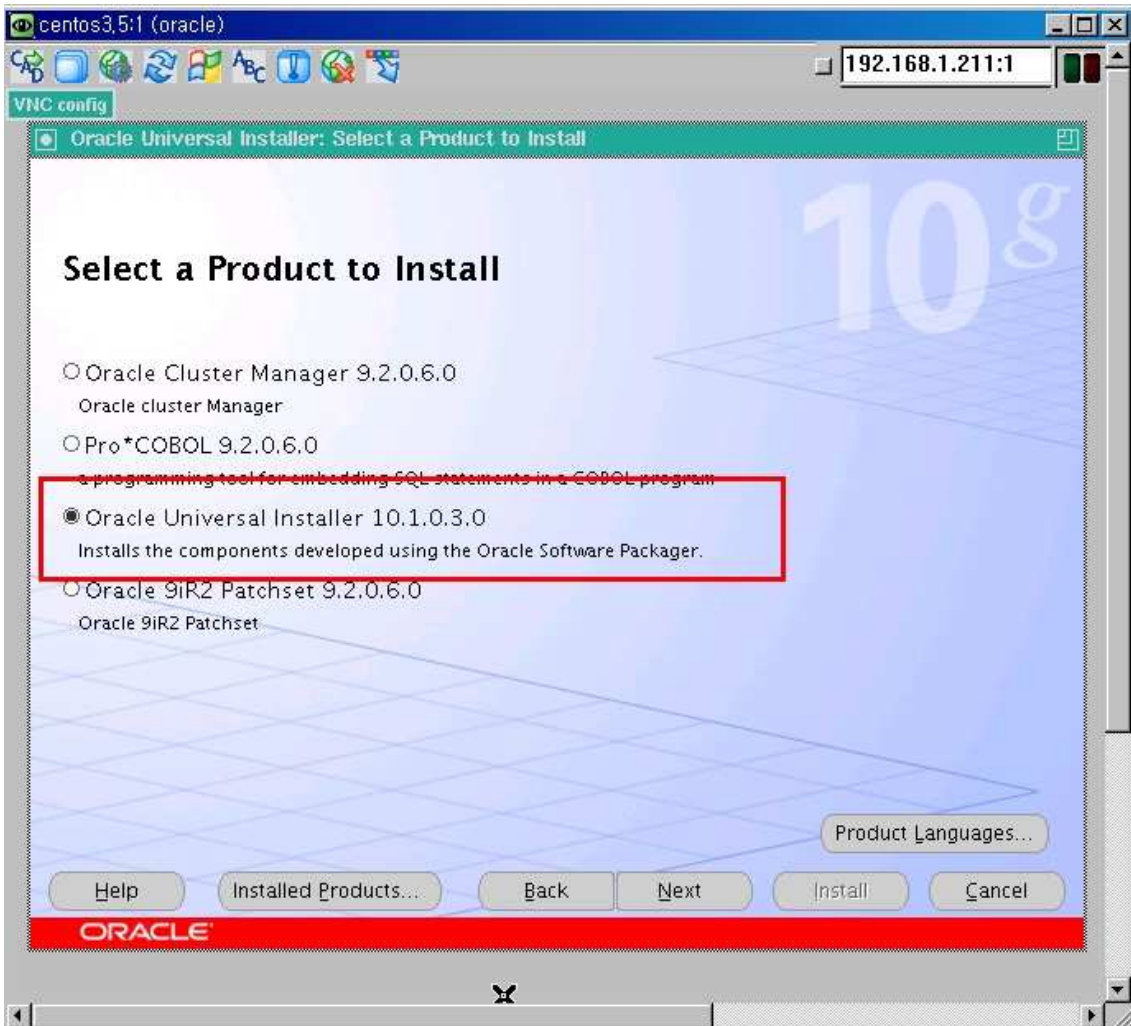
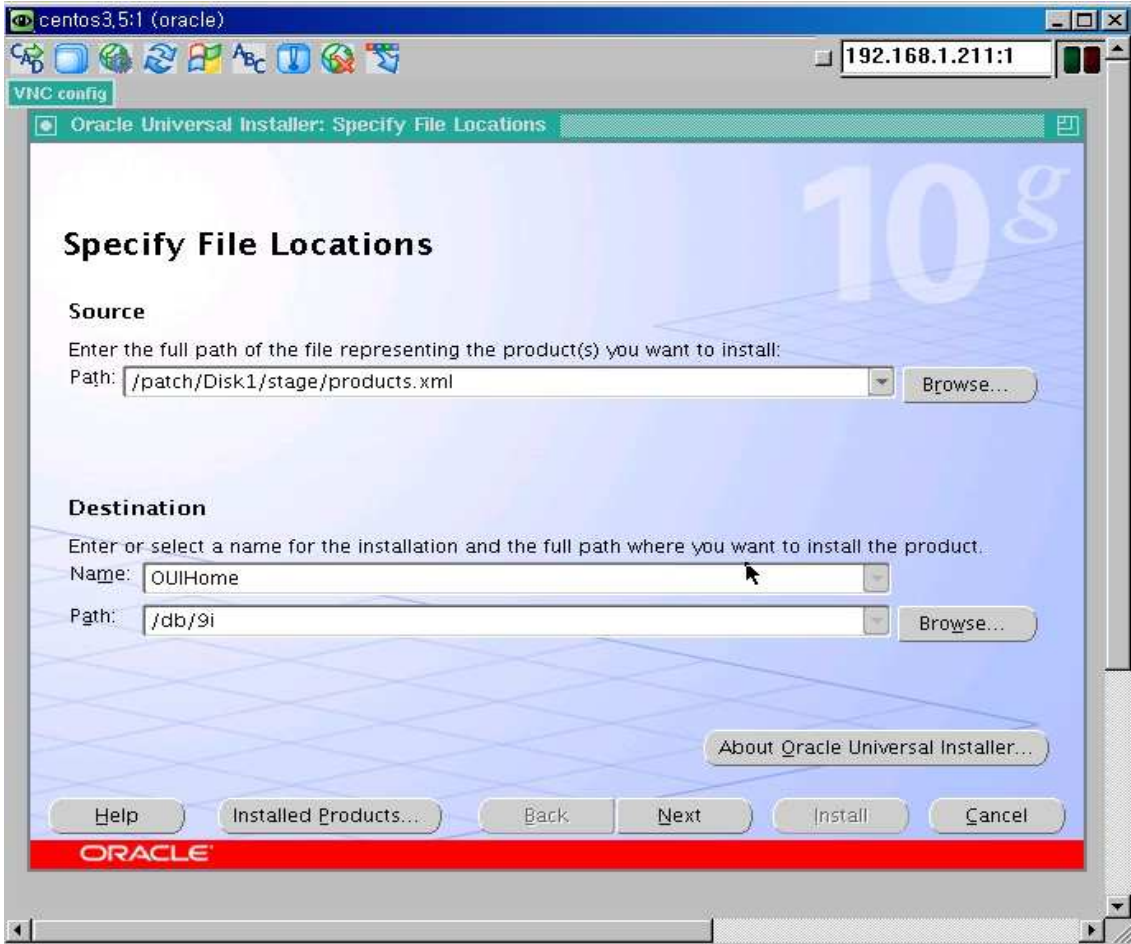


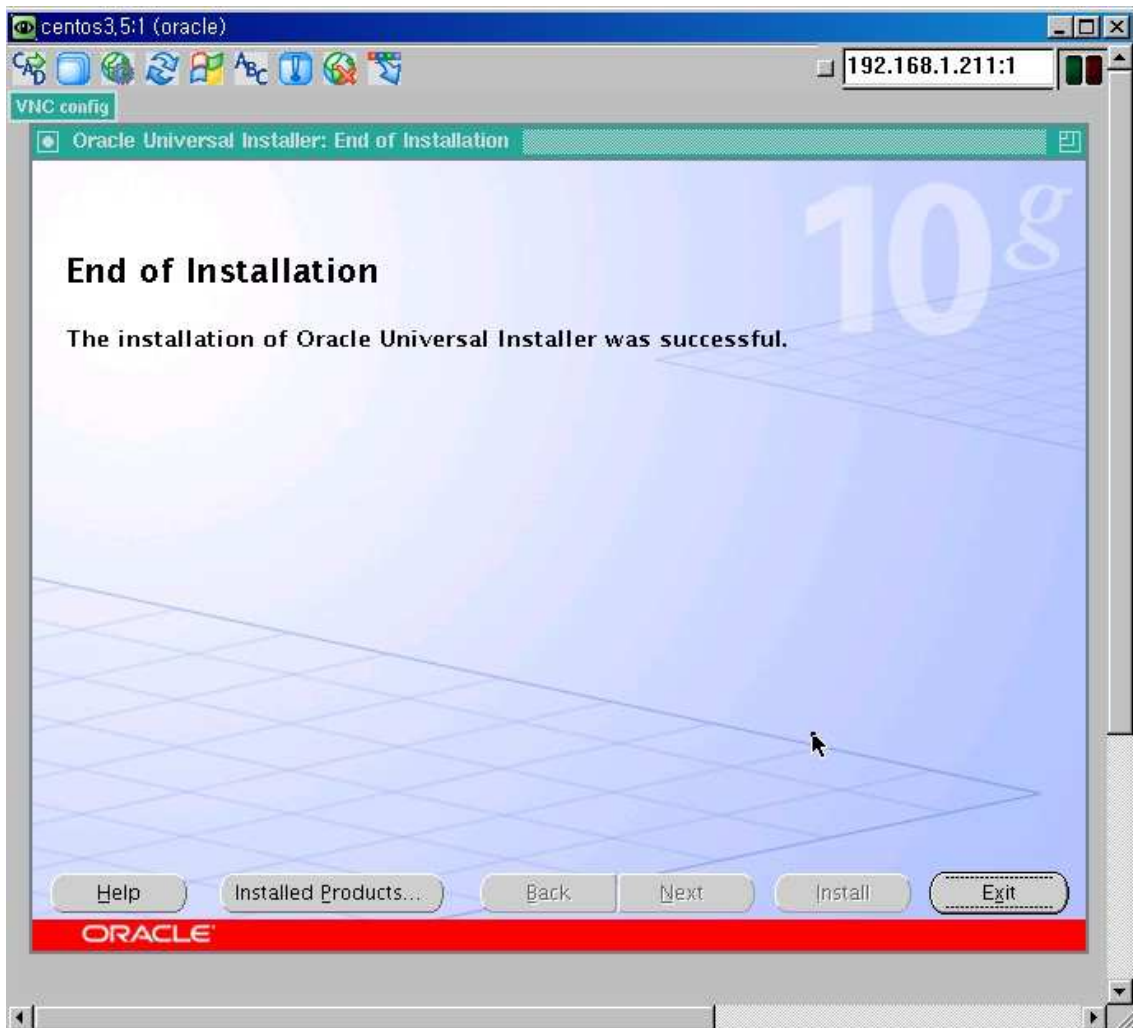
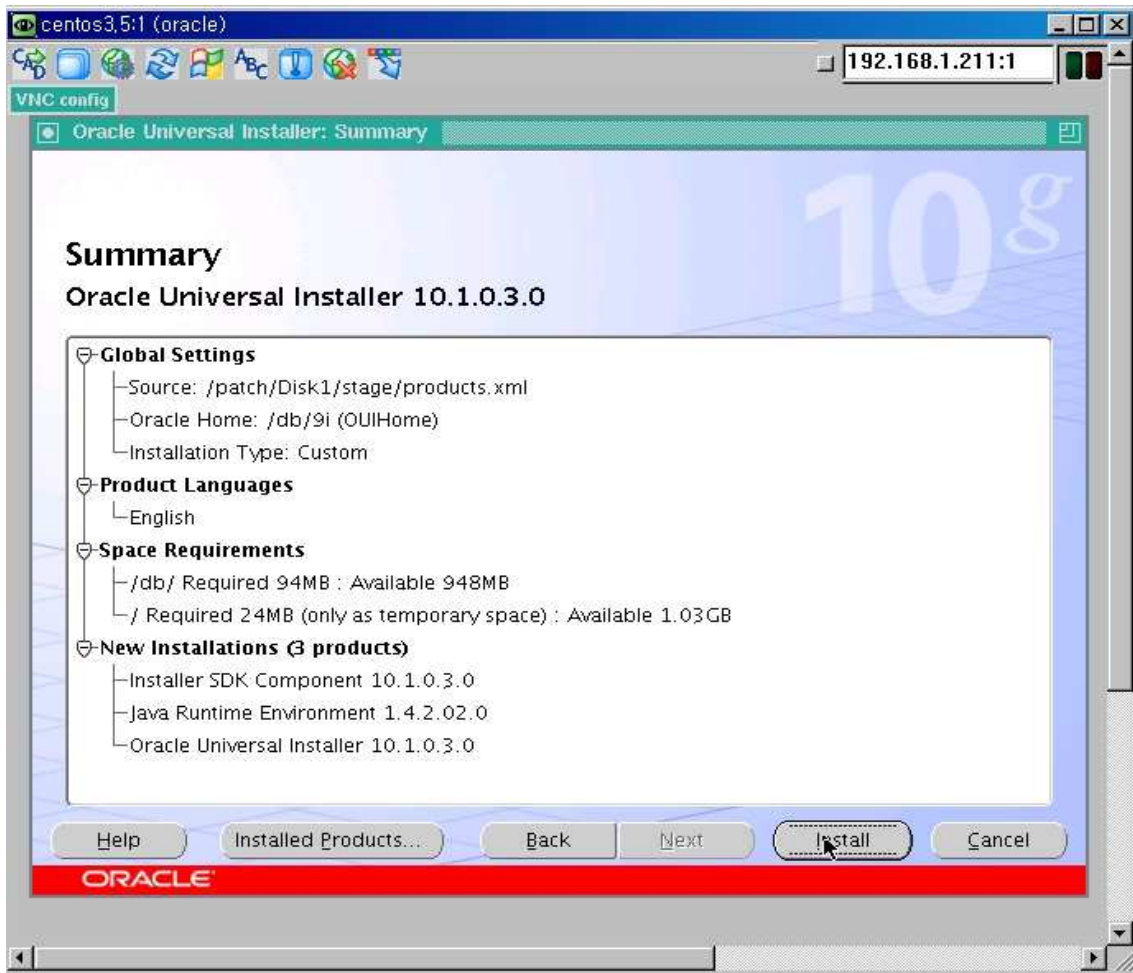
6. 아래와 같이 패치셋을 적용하려고 하면 에러가 발생합니다.

다시 전단계로 돌아간후 oracle universal installer 10.1.0.3.0 를 먼저 설치후 다시 패치셋을 적용합니다.

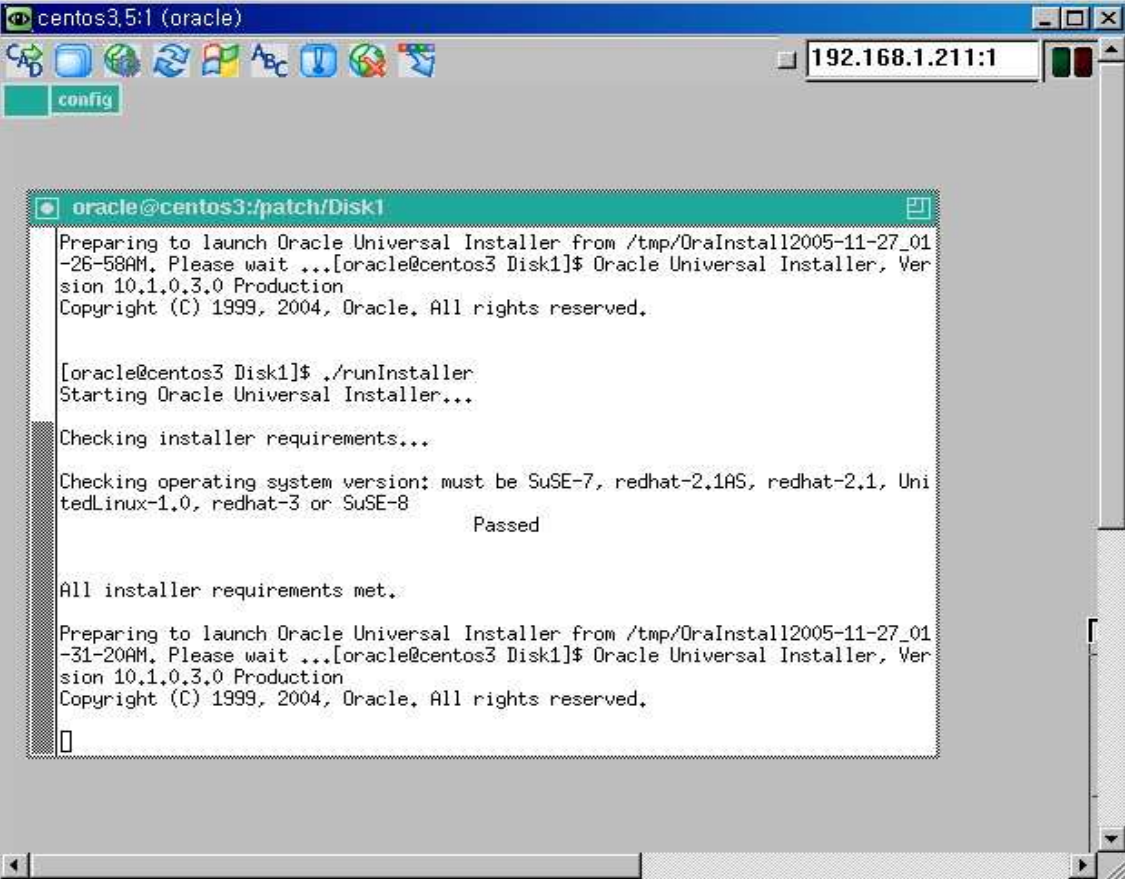


7. 다시 전단계로 돌아온 후 oracle universal installer 10.1.0.3.0 을 설치합니다.





8. patchset 을 설치하기 위해 다시 runinstaller 를 실행합니다.



```
centos3,5:1 (oracle)
config

oracle@centos3:/patch/Disk1
Preparing to launch Oracle Universal Installer from /tmp/OraInstall2005-11-27_01-26-58AM. Please wait ...[oracle@centos3 Disk1]$ Oracle Universal Installer, Version 10.1.0.3.0 Production
Copyright (C) 1999, 2004, Oracle. All rights reserved.

[oracle@centos3 Disk1]$ ./runInstaller
Starting Oracle Universal Installer...

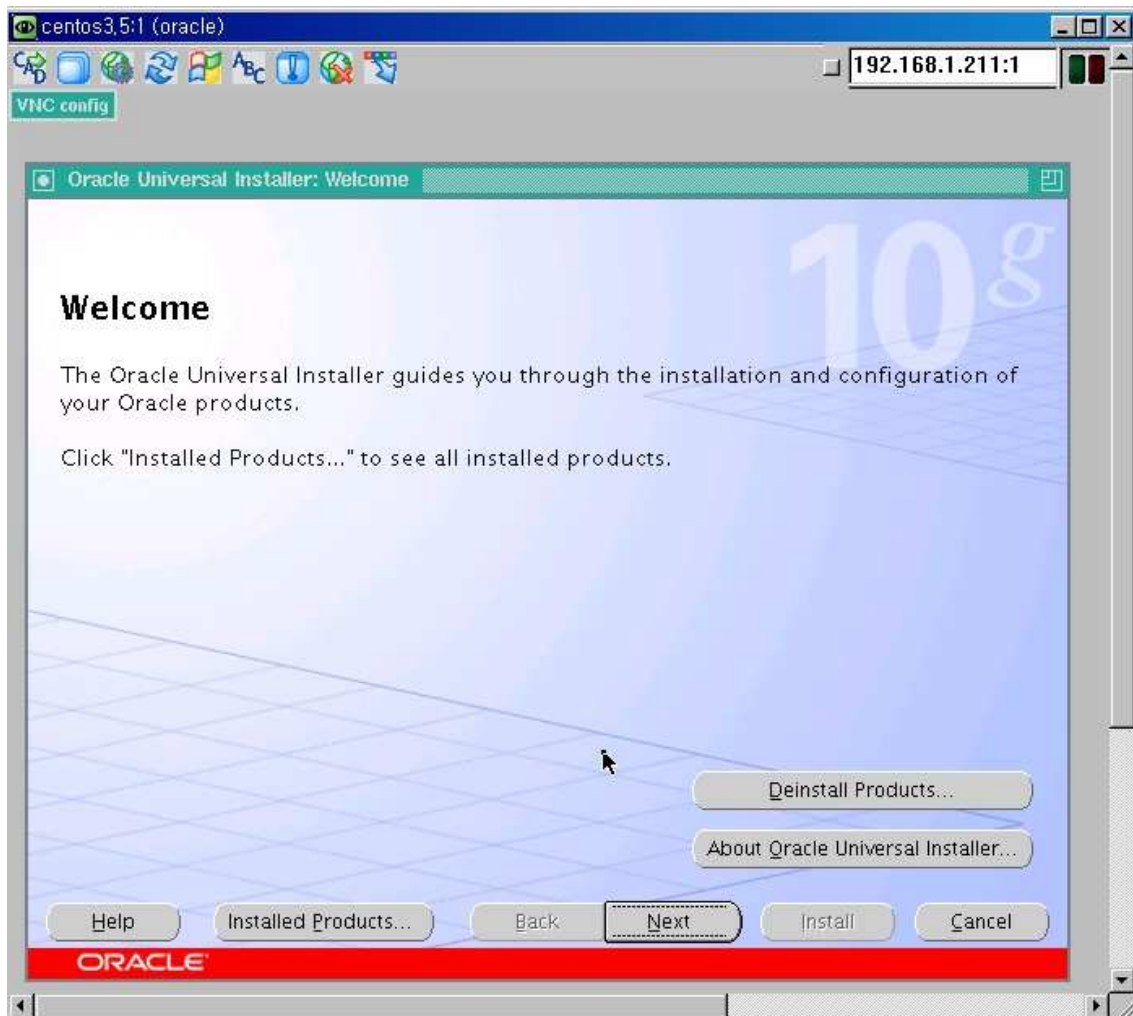
Checking installer requirements...

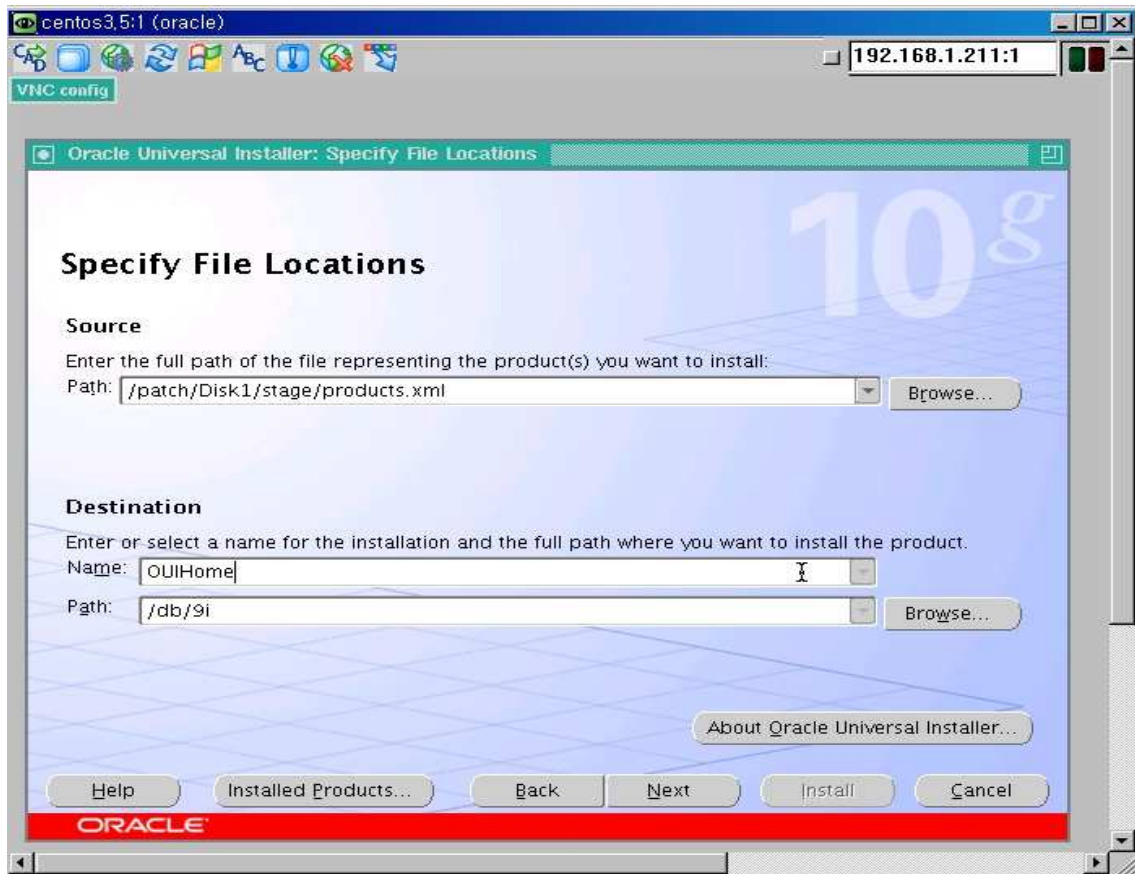
Checking operating system version: must be SuSE-7, redhat-2.1AS, redhat-2.1, UnitedLinux-1.0, redhat-3 or SuSE-8
                                     Passed

All installer requirements met.

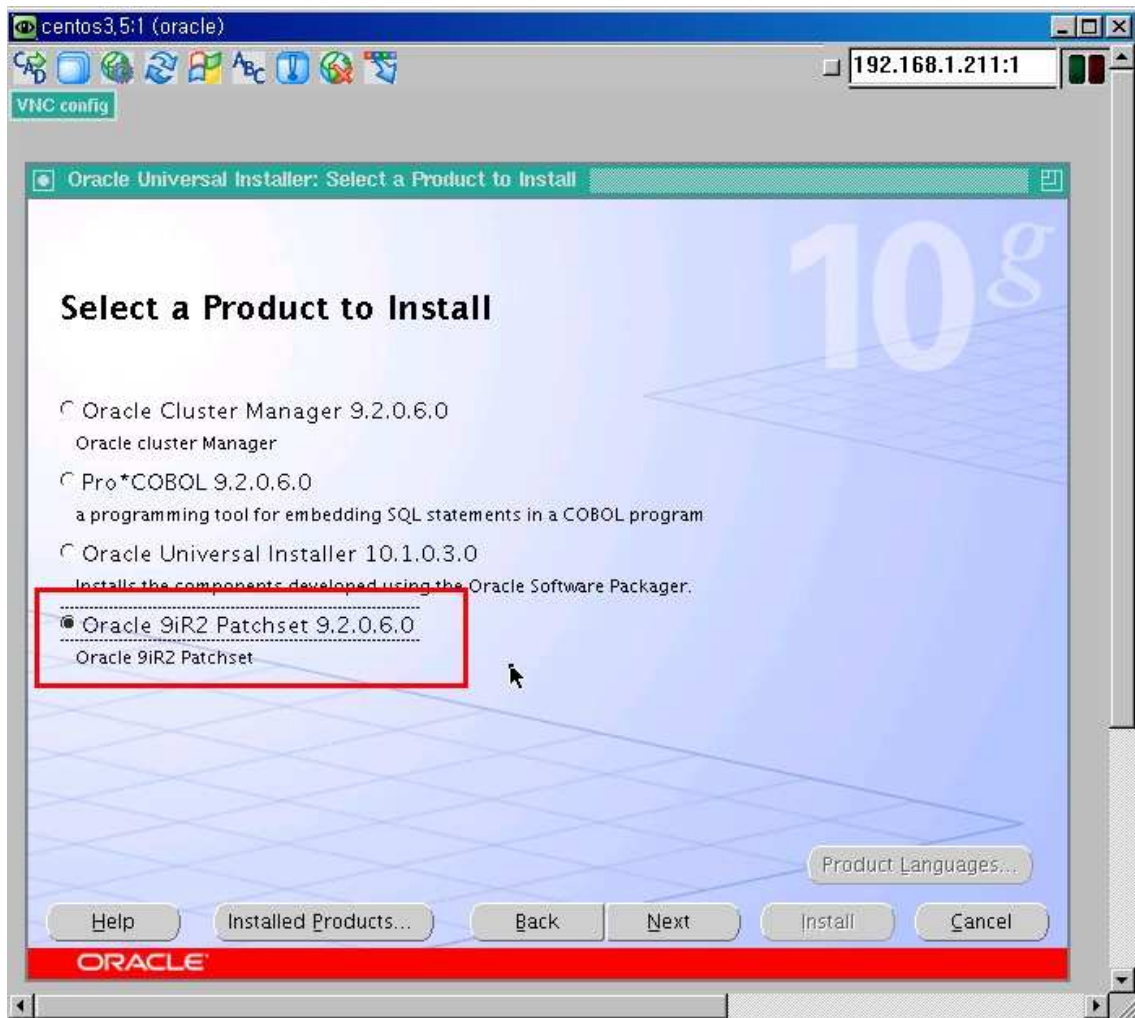
Preparing to launch Oracle Universal Installer from /tmp/OraInstall2005-11-27_01-31-20AM. Please wait ...[oracle@centos3 Disk1]$ Oracle Universal Installer, Version 10.1.0.3.0 Production
Copyright (C) 1999, 2004, Oracle. All rights reserved.

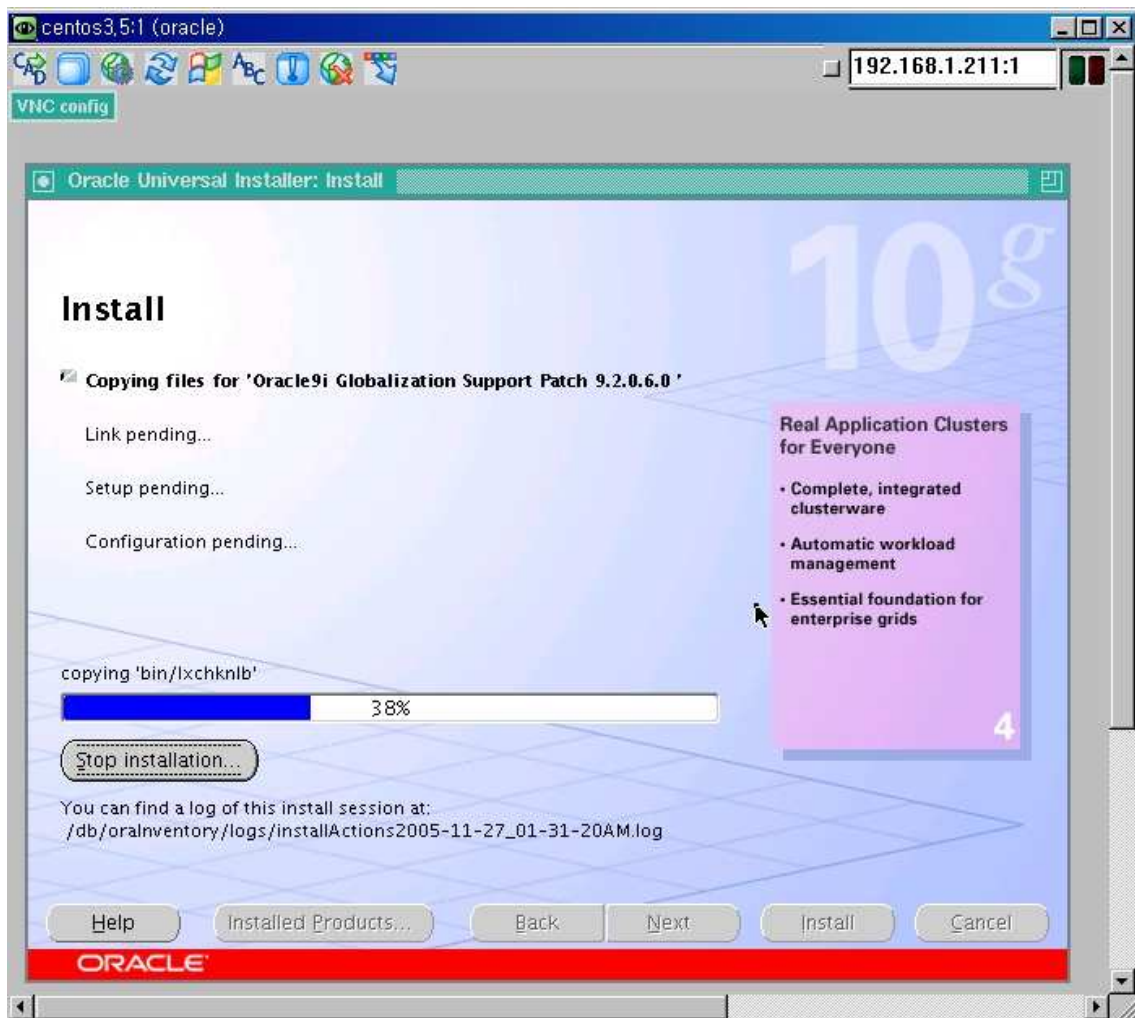
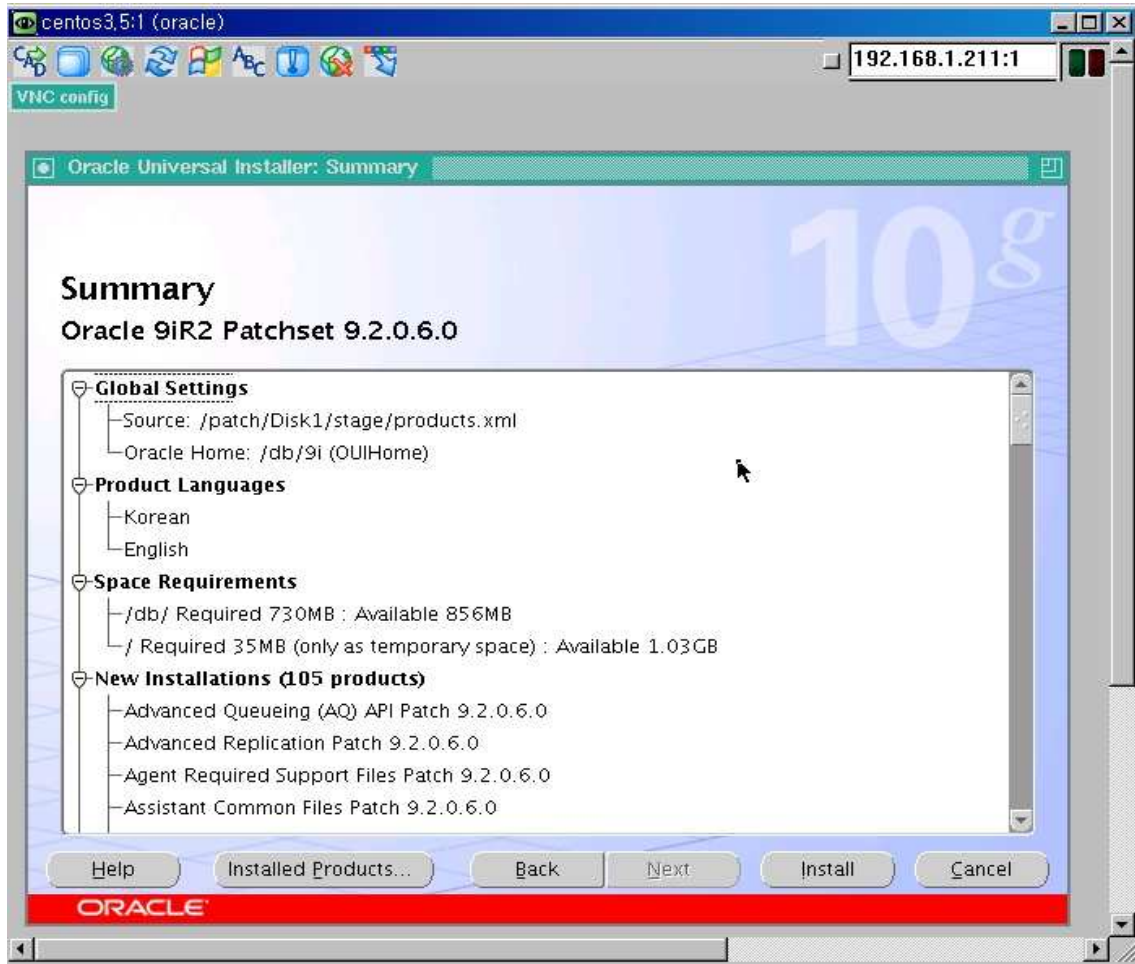
█
```



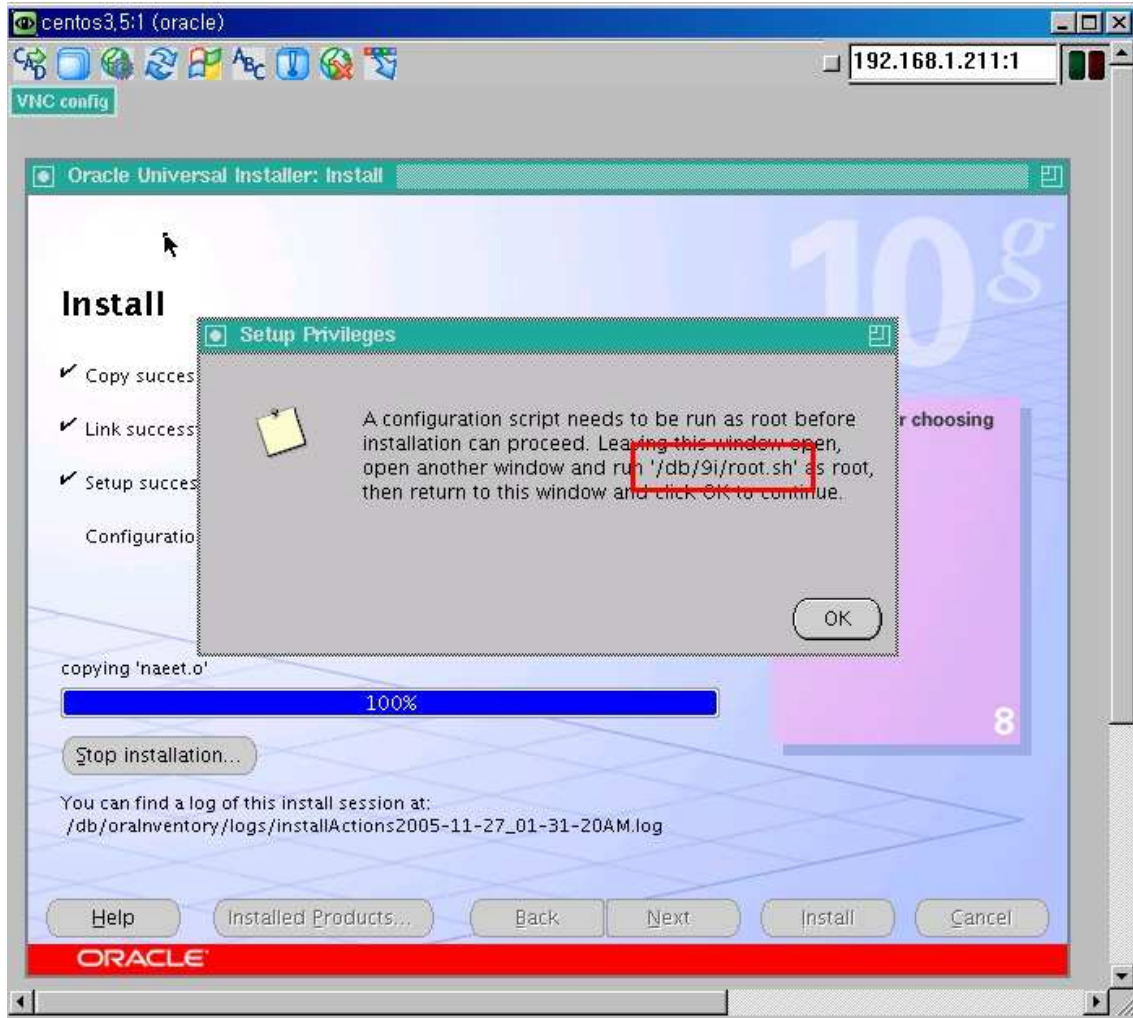


9. 오라클 patchset 을 선택후 진행합니다.

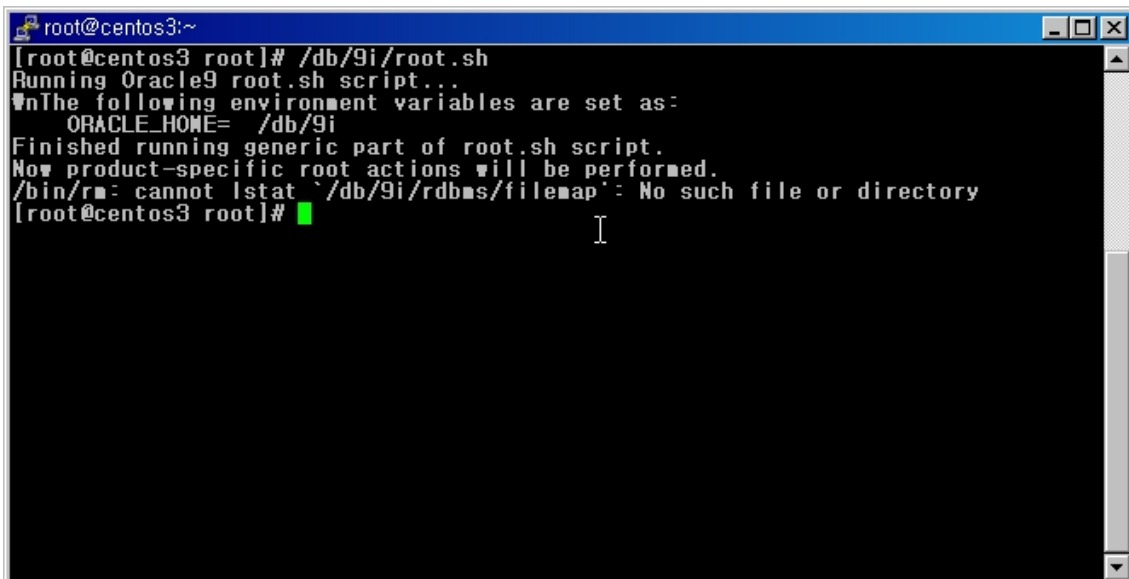


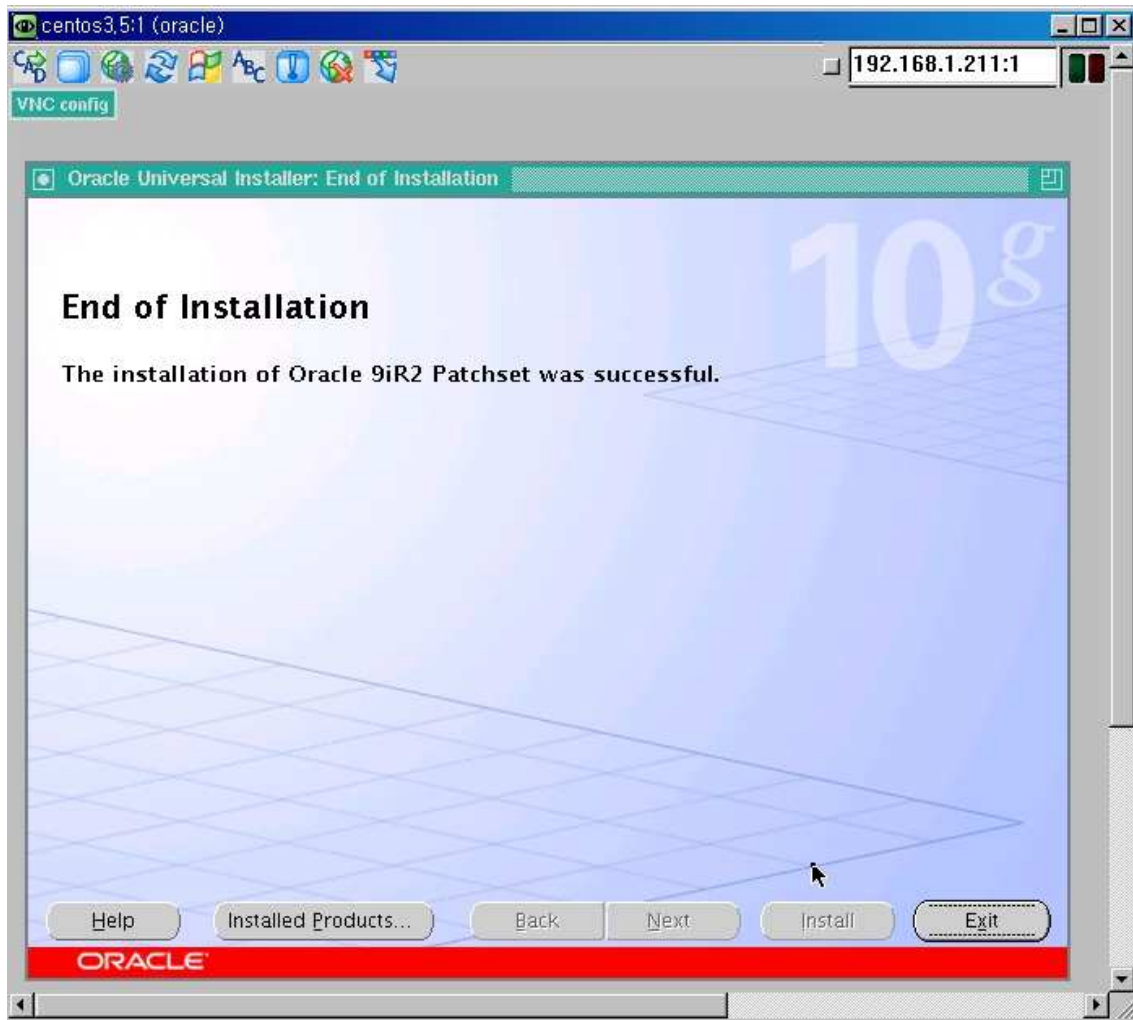


10. 설치가 완료된 후에는 아래와 같은 메시지가 나옵니다. 이때 반드시 root 권한으로 자신의 오라클홈디렉토리의 root.sh 를 실행해줍니다. 현재 필자가 실행할 파일 경로는 /db/9i/root.sh 입니다.



11. 아래는 새창을 띄워 root 권한으로 root.sh 를 실행한 모습입니다.

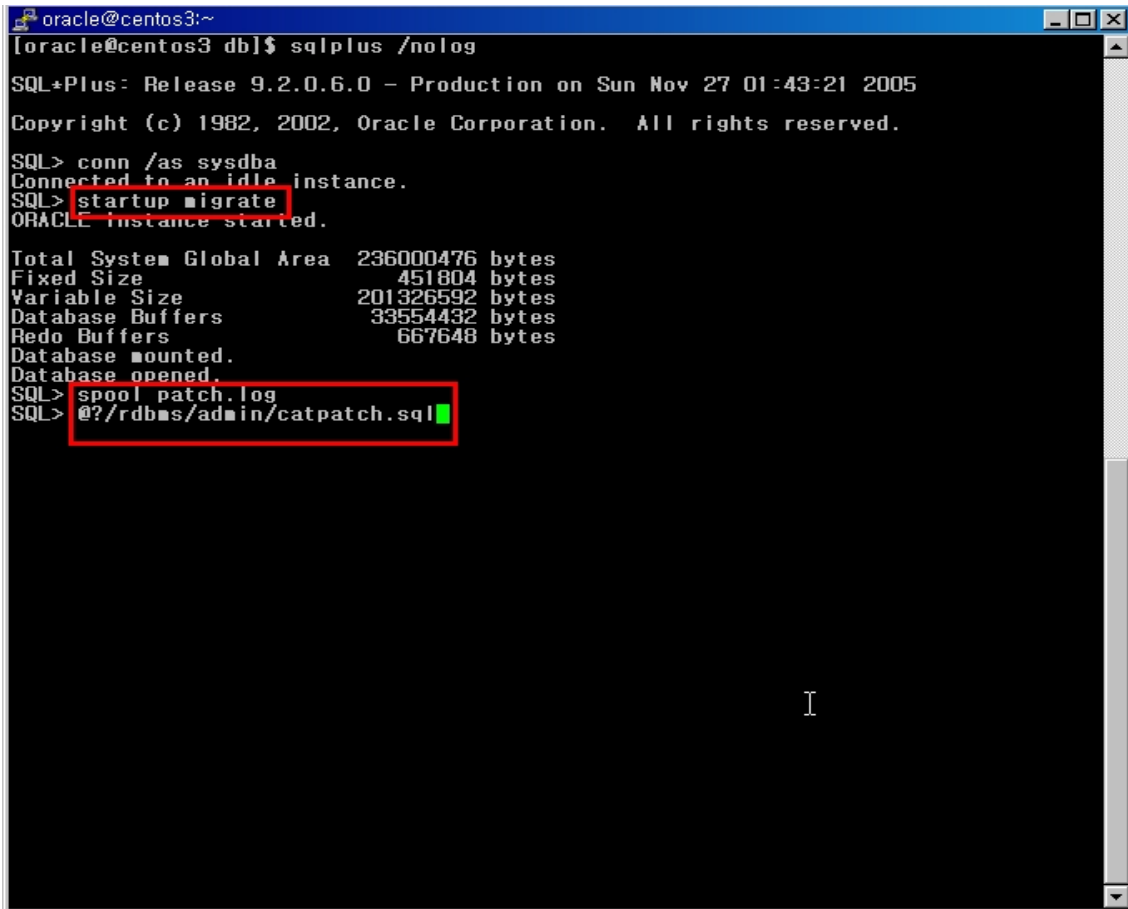




12. 아래는 sqlplus 를 실행한 모습입니다. 현재 sqlplus 버전이 9.2.0.6.0 으로 업데이트된 것을 확인할 수 있습니다.

```
[oracle@centos3 db]$ sqlplus /nolog
SQL*Plus: Release 9.2.0.6.0 - Production on Sun Nov 27 01:41:23 2005
Copyright (c) 1982, 2002, Oracle Corporation. All rights reserved.
SQL> █
```

13. sysdba 권한으로 접속후 oracle 을 시작하는데 반드시 migrate 모드로 실행을 하고 로그를 남기기 위해 spool patch.log 를 실행해주고 @?/rdbms/admin/catpatch.sql 스크립트를 실행시켜줍니다.
- 시스템 환경에 따라 다르지만 스크립트가 적용되는 시간이 상당히 오래걸립니다.
- 필자의 시스템 사양이 AMD 2800 에 램 2기가인데 약 25 분정도 소요 되었습니다.

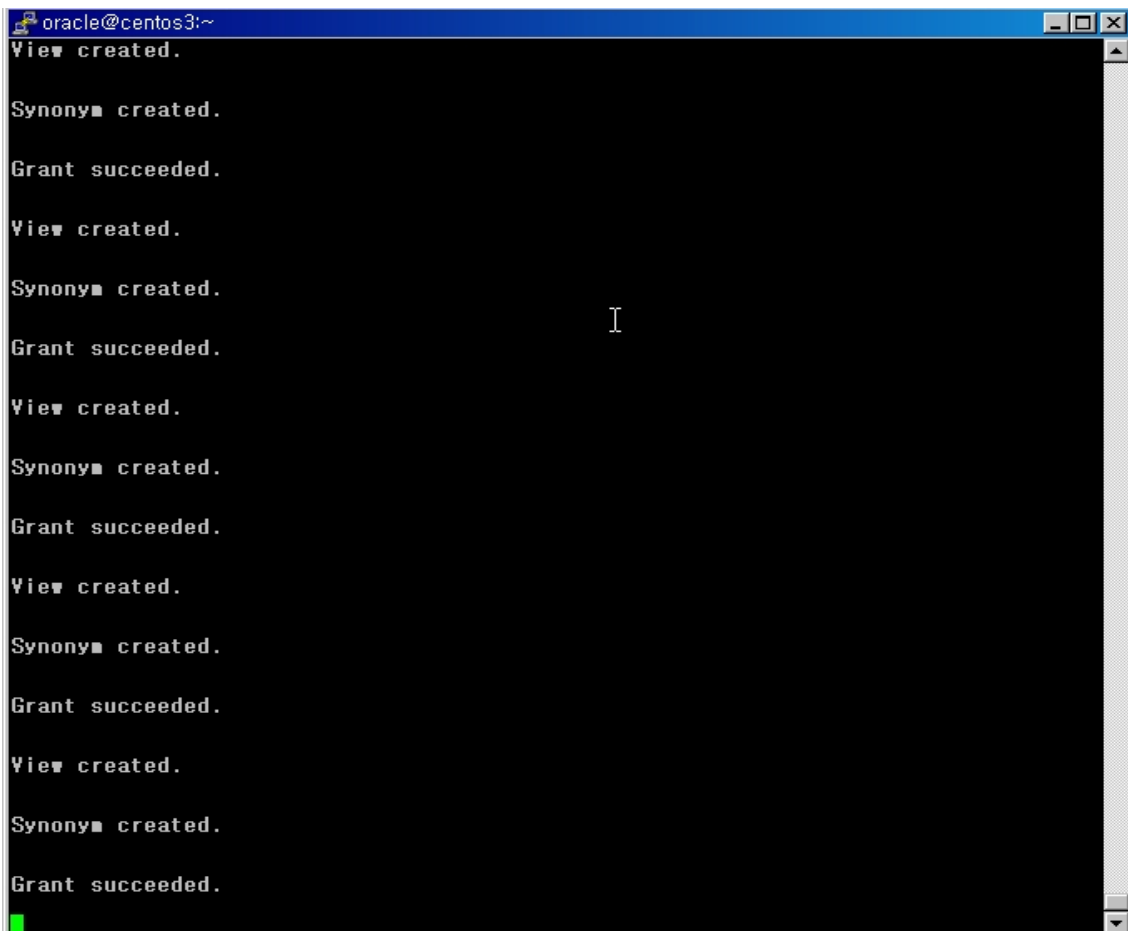


```
oracle@centos3:~
[oracle@centos3 db]$ sqlplus /nolog

SQL*Plus: Release 9.2.0.6.0 - Production on Sun Nov 27 01:43:21 2005
Copyright (c) 1982, 2002, Oracle Corporation. All rights reserved.

SQL> conn /as sysdba
Connected to an idle instance.
SQL> startup migrate
ORACLE instance started.

Total System Global Area 236000476 bytes
Fixed Size 451804 bytes
Variable Size 201326592 bytes
Database Buffers 33554432 bytes
Redo Buffers 667648 bytes
Database mounted.
Database opened.
SQL> spool patch.log
SQL> @?/rdbms/admin/catpatch.sql
```



```
View created.

Synonym created.

Grant succeeded.

View created.

Synonym created.

Grant succeeded.

View created.

Synonym created.

Grant succeeded.

View created.

Synonym created.

Grant succeeded.

View created.

Synonym created.

Grant succeeded.
```

14. 아래는 @?/rdbms/admin/catpatch.sql 스크립트를 실행한 후의 모습이며 로그 기록을 그만 남기기 위해 spool off 를 실행해줍니다.

```
oracle@centos3:~  
... creating procedure WK$PRE_OPTIMIZE_INDEX  
... creating procedure WK$POST_OPTIMIZE_INDEX  
... creating procedure WK$UPD_INST  
... creating change tracking triggers  
  
TIMESTAMP  
-----  
COMP_TIMESTAMP WK          27-NOV-05 02.05.54.288568000 AM +09:00  
  
TIMESTAMP  
-----  
DOC> END Component Patches */  
  
COMP_NAME                STATUS                VERSION  
-----  
Oracle9i Catalog Views   VALID                 9.2.0.6.0  
Oracle9i Packages and Types VALID                 9.2.0.6.0  
Oracle Workspace Manager VALID                 9.2.0.1.0  
JServer JAVA Virtual Machine VALID                 9.2.0.6.0  
Oracle XDK for Java      VALID                 9.2.0.8.0  
Oracle9i Java Packages   VALID                 9.2.0.6.0  
Oracle interMedia        VALID                 9.2.0.6.0  
Spatial                   VALID                 9.2.0.6.0  
Oracle Text               VALID                 9.2.0.6.0  
Oracle XML Database      VALID                 9.2.0.6.0  
Oracle Ultra Search      VALID                 9.2.0.6.0  
  
COMP_NAME                STATUS                VERSION  
-----  
Oracle Data Mining       VALID                 9.2.0.6.0  
OLAP Analytic Workspace  UPGRADED             9.2.0.6.0  
Oracle OLAP API          UPGRADED             9.2.0.6.0  
OLAP Catalog             VALID                 9.2.0.6.0  
=====
```

DOC> The above query lists the components in the database, along
DOC> with their current patchset version and status.
DOC> =====
DOC> */
DOC> END CATPATCH.SQL */
SQL> SPPOOL OFF
SQL> █

15. 오라클 database 를 종료한 후 다시 시작하고 @?/rdbms/admin/utltp.sql 스크립트를 실행시켜 주면 모든 패치 적용이 완료됩니다. 마지막으로 패치가 정상적으로 적용이 되었는지 확인을 해보기 위해 select * from v\$version 을 실행시켜 패치 버전을 확인합니다.

```
SQL> SHUTDOWN
Database closed.
Database dismounted.
ORACLE instance shut down.
SQL> STARTUP
ORACLE instance started.

Total System Global Area 236000476 bytes
Fixed Size                  451804 bytes
Variable Size               201326592 bytes
Database Buffers           33554432 bytes
Redo Buffers                 667648 bytes
Database mounted.
Database opened.
SQL> @?/rdbms/admin/utltp.sql
PL/SQL procedure successfully completed.

Table created.

Table created.

Table created.

Index created.

Table created.

Table created.

View created.

View created.

Package created.

No errors.

Package body created.

No errors.

PL/SQL procedure successfully completed.

PL/SQL procedure successfully completed.

SQL> select * from v$version
2
;

BANNER
-----
Oracle9i Enterprise Edition Release 9.2.0.6.0 - Production
PL/SQL Release 9.2.0.6.0 - Production
CORE    9.2.0.6.0      Production
TNS for Linux: Version 9.2.0.6.0 - Production
NLSRTL Version 9.2.0.6.0 - Production

5 rows selected.
```