

172.21.0.71 - PuTTY

```
root@aix71:/] d^??^?  
ksh: d^??^?: not found.  
root@aix71:/] lsdev -Cc disk  
hdisk0      Available 02-08-00 SAS Disk Drive  
hdisk1      Available 02-08-00 SAS Disk Drive  
hdisk2      Available 03-00-02 Falconstor IPStor Disk Drive For MPIO  
hdisk3      Available 03-00-02 Falconstor IPStor Disk Drive For MPIO  
hdisk4      Available 03-00-02 Falconstor IPStor Disk Drive For MPIO  
hdisk5      Available 03-00-02 Falconstor IPStor Disk Drive For MPIO  
hdisk6      Available 03-00-02 Falconstor IPStor Disk Drive For MPIO  
hdisk7      Available 03-00-02 Falconstor IPStor Disk Drive For MPIO  
hdiskdpdctrl Available      DynaPath Multipath Device  
root@aix71:/] cfgmgr -v
```

기존 hdisk 넘버 확인 후 cfgmgr -v 명령어 실행하여
TimeView 디스크 스캔

172.21.0.71 - PuTTY

```
root@aix71:/] lsdev -Cc disk
hdisk0      Available 02-08-00 SAS Disk Drive
hdisk1      Available 02-08-00 SAS Disk Drive
hdisk2      Available 03-00-02 Falconstor IPStor Disk Drive For MPIO
hdisk3      Available 03-00-02 Falconstor IPStor Disk Drive For MPIO
hdisk4      Available 03-00-02 Falconstor IPStor Disk Drive For MPIO
hdisk5      Available 03-00-02 Falconstor IPStor Disk Drive For MPIO
hdisk6      Available 03-00-02 Falconstor IPStor Disk Drive For MPIO
hdisk7      Available 03-00-02 Falconstor IPStor Disk Drive For MPIO
hdisk8      Available 03-00-02 Falconstor IPStor Disk Drive For MPIO
hdisk9      Available 03-00-02 Falconstor IPStor Disk Drive For MPIO
hdisk10     Available 03-00-02 Falconstor IPStor Disk Drive For MPIO
hdisk11     Available 03-00-02 Falconstor IPStor Disk Drive For MPIO
hdisk12     Available 03-00-02 Falconstor IPStor Disk Drive For MPIO
hdisk13     Available 03-00-02 Falconstor IPStor Disk Drive For MPIO
hdiskdpdctrl Available          DynaPath Multipath Device
root@aix71:/] █
```

새롭게 붙은 Snapshot 볼륨 hdisk8~13 확인

```
root@aix71:/] chdev -l hdisk8 -a pv=clear
hdisk8 changed
root@aix71:/] chdev -l hdisk9 -a pv=clear
hdisk9 changed
root@aix71:/] chdev -l hdisk10 -a pv=clear
hdisk10 changed
root@aix71:/] chdev -l hdisk11 -a pv=clear
hdisk11 changed
root@aix71:/] chdev -l hdisk12 -a pv=clear
hdisk12 changed
root@aix71:/] chdev -l hdisk13 -a pv=clear
hdisk13 changed
root@aix71:/] █
```

chdev -l hdisk8~13 -a pv=clear 명령어로
PVID clear 진행

```
root@aix71:/] lspv
hdisk0      00ccc31264fb9127      rootvg      active
hdisk1      00ccc312798dfcc4      rootvg      active
hdisk2      00ccc312964b6e7e    newtestvg    active
hdiskdpcctl none                      None
hdisk3      00ccc312965e61a6    newtestvg    active
hdisk4      00ccc3129738ae6e    newtestvg    active
hdisk5      00ccc3129738d716    newtestvg    active
hdisk6      00ccc3129738e349    newtestvg    active
hdisk7      00ccc3129747704f    newtestvg    active
hdisk8      none                      None
hdisk9      none                      None
hdisk10     none                      None
hdisk11     none                      None
hdisk12     none                      None
hdisk13     none                      None
root@aix71:/] █
```

Disk PVID Clear 정상 확인

```

root@aix71:/] lspv
hdisk0          00ccc31264fb9127          rootvg          active
hdisk1          00ccc312798dfcc4          rootvg          active
hdisk2          00ccc312964b6e7e          newtestvg       active
hdiskdpcctrl    none                          None
hdisk3          00ccc312965e61a6          newtestvg       active
hdisk4          00ccc3129738ae6e          newtestvg       active
hdisk5          00ccc3129738d716          newtestvg       active
hdisk6          00ccc3129738e349          newtestvg       active
hdisk7          00ccc3129747704f          newtestvg       active
hdisk8          none                          None
hdisk9          none                          None
hdisk10         none                          None
hdisk11         none                          None
hdisk12         none                          None
hdisk13         none                          None
root@aix71:/] recreatevg -f -y newtestvg1 hdisk8 hdisk9 hdisk10 hdisk11 hdisk12 hdisk13
newtestvg1
root@aix71:/] █

```

recreatevg -f -y newtestvg1(새로운VG이름) hdisk8 ~ hdisk13
명령어를 이용 recreatevg 진행

```

root@aix71:/] lspv
hdisk0          00ccc31264fb9127          rootvg          active
hdisk1          00ccc312798dfcc4          rootvg          active
hdisk2          00ccc312964b6e7e          newtestvg       active
hdiskdpdctrl    none                      None
hdisk3          00ccc312965e61a6          newtestvg       active
hdisk4          00ccc3129738ae6e          newtestvg       active
hdisk5          00ccc3129738d716          newtestvg       active
hdisk6          00ccc3129738e349          newtestvg       active
hdisk7          00ccc3129747704f          newtestvg       active
hdisk8          00ccc3129766622c          newtestvgl      active
hdisk9          00ccc31297666300          newtestvgl      active
hdisk10         00ccc312976663b8          newtestvgl      active
hdisk11         00ccc3129766646c          newtestvgl      active
hdisk12         00ccc31297666520          newtestvgl      active
hdisk13         00ccc312976665d8          newtestvgl      active
root@aix71:/] lsvg -l newtestvgl
newtestvgl:
LV NAME          TYPE          LPs          PPs          PVs          LV STATE          MOUNT POINT
fsnewtestlv      jfs2          1            1            1            closed/syncd      /fs/newtest
fsloglv04        jfs2log       1            1            1            closed/syncd      N/A
fsnewtestlv1     jfs2          1            1            1            closed/syncd      /fs/newtest1
fsnewtestlv2     jfs2          1            1            1            closed/syncd      /fs/newtest2
fsnewtestlv3     jfs2          1            1            1            closed/syncd      /fs/newtest3
fsnewtestlv4     jfs2          1            1            1            closed/syncd      /fs/newtest4
fsnewtestlv5     jfs2          22           22           1            closed/syncd      /fs/newtestlv5
root@aix71:/] █

```

Snapshot 볼륨 마운트 포인트 확인

*snapshot 볼륨들은 Mount Point 앞에 /fs 붙음

```

root@aix71:/] lsvg -l newtestvg1
newtestvg1:
LV NAME                TYPE        LPs        PPs        PVs  LV STATE        MOUNT POINT
fsnewtestlv            jfs2        1          1          1    closed/syncd    /fs/newtest
fsloglv04              jfs2log     1          1          1    closed/syncd    N/A
fsnewtestlv1           jfs2        1          1          1    closed/syncd    /fs/newtest1
fsnewtestlv2           jfs2        1          1          1    closed/syncd    /fs/newtest2
fsnewtestlv3           jfs2        1          1          1    closed/syncd    /fs/newtest3
fsnewtestlv4           jfs2        1          1          1    closed/syncd    /fs/newtest4
fsnewtestlv5           jfs2        22         22         1    closed/syncd    /fs/newtestlv5
root@aix71:/] mount /fs/newtest2
Replaying log for /dev/fsnewtestlv2.
root@aix71:/] cd /fs/newtest2
root@aix71:/fs/newtest2] ls
file4      file5      file6      lost+found
root@aix71:/fs/newtest2] █

```

그 후 복구를 원하는 볼륨 mount 후 파일 복원


```

root@aix71:/fs/newtest2] df -g
Filesystem      GB blocks      Free %Used      Iused %Iused Mounted on
/dev/hd4         6.00       2.64  57%      22373      4% /
/dev/hd2         4.00       1.44  65%      49615     13% /usr
/dev/hd9var       2.00       1.66  17%       6277      2% /var
/dev/hd3         2.00       1.84   9%        263      1% /tmp
/dev/fwdump       0.75       0.75   1%         4      1% /var/adm/ras/platform
/dev/hd1         0.25       0.25   1%         7      1% /home
/dev/hd11admin    0.25       0.25   1%         7      1% /admin
/proc            -          -      -          -      - /proc
/dev/hd10opt      0.50       0.27  46%      2822      4% /opt
/dev/livedump     0.25       0.25   1%         4      1% /var/adm/ras/livedump
/dev/lvinst      15.00       1.19  93%      1662      1% /inst
/dev/newtestlv    0.02       0.02   3%         8      1% /newtest
/dev/newtestlv1   0.02       0.02   3%         8      1% /newtest1
/dev/newtestlv2   0.02       0.02   3%         7      1% /newtest2
/dev/newtestlv3   0.02       0.02   3%         7      1% /newtest3
/dev/newtestlv4   0.02       0.02   3%         7      1% /newtest4
/dev/newtestlv5   0.34       0.34   1%         7      1% /newtest5
/dev/fsnewtestlv2 0.02       0.02   3%         7      1% /fs/newtest2
root@aix71:/fs/newtest2] umount /fs/newtest2
umount: 0506-349 Cannot unmount /dev/fsnewtestlv2: The requested resource is busy.
root@aix71:/fs/newtest2] umount -f /fs/newtest2
forced unmount of /fs/newtest2
forced unmount of /fs/newtest2
root@aix71:/fs/newtest2] █

```

복구가 끝나면 mount 된 볼륨 umount
오류시 -f 옵션으로 강제 umount 실행


```
root@aix71:/fs/newtest2] varyoffvg newtestvg1  
root@aix71:/fs/newtest2] exportvg newtestvg1
```

```
#varyoffvg newtestvg1  
#exportvg newtestvg1
```

신규 vg 비활성