# HP 9000 Container – Installation and Setup Guide


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19 March 2011

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## Assumptions

a. All the depots were /home/container
b. Files related to the HP 9000 image is located in /home/container/demo

1. List HP-SRP products

   # swlist -s /home/ container/HP-UX-SRP_A.02.02_HP-UX_B.11.31_IA_PA.depot

2. Install HP-SRP

   # swinstall -x autoreboot=true -s /home/container/HP-UX-SRP_A.02.02_HPUX_B.11.31_IA_PA.depot *

3. Configure SRP

   # srp_sys –setup
   Note: Answer negative for the following question as PRM is not supported in SRP layer.
   prm (Process Resource Management) [y]
   ipfilter (ipfilter host firewall rules) [y]
   Would you like to add the memory record? [y]
   Would you like to load and activate PRM configuration? [y]
   Would you like to enable PRM when the system is rebooted? [y]
   Would you like to enable the IPfilter module? [y]
   Modify the /etc/group to include and modify the group to replicate the unique entries in the source environment
   Modify the /etc/passwd to include and modify the users to replicate the unique entries in the source environment

4. Create hp9000_root directory

   # mkdir /container_root

5. Verify 'fbackup' image using 'frecover'

   # /usr/sbin/frecover -N -f /home/container/demo/hpmdd78.backup -I /tmp/recover.index # diff /home/container/demo/hpmdd78.index /tmp/recover.index

6. Running 'frecover' on the image to extract the file

   # cd /container_root
   # /usr/sbin/frecover -x -X -f /home/container/demo/hpmdd78.backup 2>&1 >/tmp/extract.log
   Create any required directories which were not copied and assign proper ownership and permission.
   # mkdir /container_root/var/adm/crash
   # chown root:root /container_root/var/adm/crash
   # chmod 0755 /container_root/var/adm/crash

7. Create an HP-UX SRP compartment

   # srp -add container

8. Verify created SRP

   # srp -list

9. Add 'sshd' template to the create SRP compartment

   # srp -add container -t sshd –b

10. Verify the newly added template to the compartment

    # srp -list

11. Start SRP compartment and make sure sshd is started

```
# srp -start container
# ps -ef | grep sshd_config
```

Note: Make sure the process started from '/var/hpsrp/container/opt/ssh/sshd_config'

12. Stop SRP compartment

```
# srp -stop container
```

13. Add 'hp9000' template to the compartment

```
# srp -add container -t hp9000
```

14. Verify the newly added template to the compartment

```
# srp -list
```

15. Start the 9000 Container compartment

```
# srp -start container
```

16. Login to the 9000 Container compartment

```
# ssh -l root 10.191.30.152
```

Note:
10.191.30.152 – IP address for the compartment
Password – Use the same password as that of the host machine
Note: 'HP 9000 Containers A01.02 on HP Integrity - Administrative Guide' asks to provide 'NO' for 'Assign IP address at SRP startup time' during SRP creation. But we couldn't able to access the compartment using SSH as the IP was not created. So, we changed the configuration from 'SMH' gui. The command executed is,

```
# srp -b -replace container -s network iface=lan0:1
gw_ip_address=10.191.1.254ip_mask=255.255.0.0 ip_address=10.191.30.152 assign_ip=yes
```

17. Add 'container' (hostname for the compartment which same as the compartment name) to /etc/hosts file
18. Start the oracle database instance

```
# su – oracle
$ export ORACLE_HOME=/Apps/Oracle/oracle/oracle/product/10.2.0/db_1
$ export ORACLE_SID=orcl
$ sqlplus SQL > startup
```

19. Make sure ORACLE is running using HP Aries.

```
# /usr/sbin/fuser /usr/lib/hpux32/aries32.so /usr/lib/hpux64/aries64.so
```

Note: If you check the process list, most of them is related to Oracle instance

20. Shutdown the oracle database instance

```
# su – oracle
$ export ORACLE_HOME=/Apps/Oracle/oracle/oracle/product/10.2.0/db_1
$ export ORACLE_SID=orcl
$ sqlplus
```

SQL > shutdown

21. Stop the container

```
# srp -stop container
```