

OM

OM Namah Sivanandaya

Please read <http://www.kartik.com/VCS101.pdf>

THIS DOCUMENT IS AVAILABLE AT <HTTP://KARTIK.COM/VCS102.pdf>

The combination of Solaris11+VCS 6.0.1 + MySQL 5.6 is not supported it seems. Hence we will install Solaris 10+VCS6.0.1+MySQL 5.6+Apache(latest release)

NOTE: I HAVE USED MySQL 5.5, 5.6 works very well on solaris10, use that!!!

Instructions for installing openfiler are at:

<http://kartik.com/VCS101.pdf>

Those are for installing on Vmware Workstation 10, it is easy to install it on Oracle VirtualBox, so please do so. This is the first step. VirtualBox is free.

This time I am using virtual box for virtualization.

Instead of downloading the entire Solaris10 image, you may simply download the Solaris 10 Virtualbox template as described below:

<http://www.oracle.com/us/downloads/index.html>

Select “Solaris 10” → click on it

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Oracle Solaris 10 1/13

Full DVD Image (ISO image):
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 (53e8b066f71250ce2fd2ce1063f8072b 2314731520: sol-10-u11-ga-sparc-dvd.iso)

Oracle Solaris 10 (x86)
 [Oracle Solaris 10 \(x86\)](#)
 (aae1452bb3d56baa3dc8866ce7e4a08 2254110720: sol-10-u11-ga-x86-dvd.iso)

Download Requirements

- 3 GB of free disk space required
- High-speed Internet connection
- DVD Writeable Drive
- Blank media: 1 DVD+R or DVD-R
- Software capable of transferring ISO images to media

[Access Installation Requirements](#) and [Frequently Asked Questions](#).

Download Instructions
 You can directly burn the .iso file you downloaded using your DVD creation software. Make sure you select the option in your DVD creation software to "create a DVD from an iso image". Use the type of media supported by your DVD burner. There are DVD-R/DVD-RW as well as DVD+R/DVD+RW recordable DVDs. Not all DVD burners support both. Do not use DVD+R DL (dual layer) discs.

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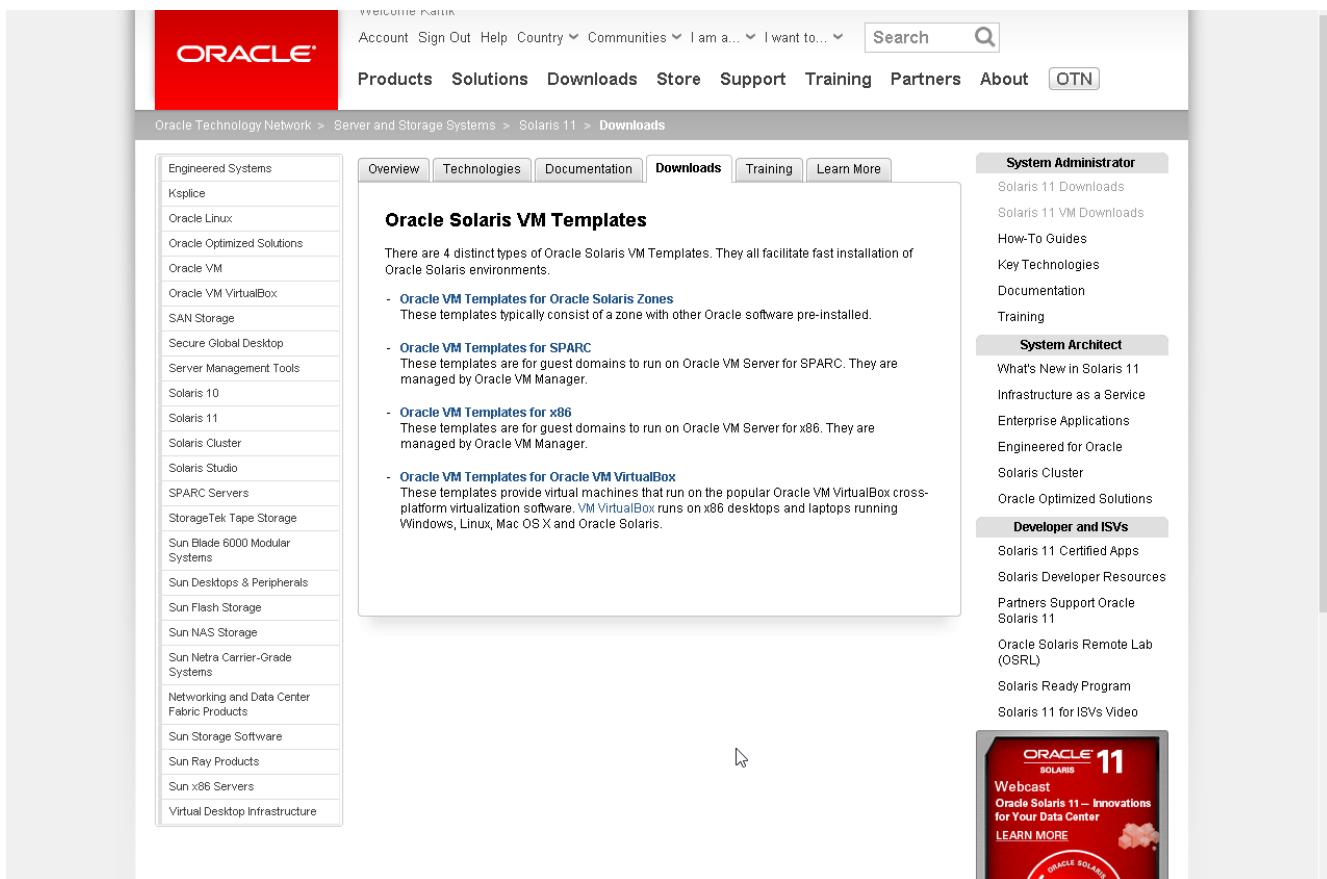
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We need:

- **Oracle VM Templates for Oracle VM VirtualBox**

These templates provide virtual machines that run on the popular Oracle VM VirtualBox cross-platform virtualization software. [VM VirtualBox](#) runs on x86 desktops and laptops running Windows, Linux, Mac OS X and Oracle Solaris.



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Oracle VM Templates for Oracle VM VirtualBox

These templates are managed by [Oracle VM VirtualBox](#), a cross-platform tool that runs on Windows, Linux, Mac OS X, and Oracle Solaris and supports running Windows, Linux and Oracle Solaris virtual machines.

Thank you for accepting the OTN License Agreement; you may now download this software.

Oracle VM Templates for Oracle VM VirtualBox

Name	Contents	Links
Oracle Solaris 11.1 VirtualBox Template	<p>This Oracle VM VirtualBox template is an Oracle Solaris 11.1 virtual machine providing a convenient way for evaluating the Oracle Solaris 11.1 operating system and development environment on 64 bit x86 systems.</p> <p>The download is 1.7GB.</p>	 Download Template Download ReadMe notes
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We need:

<p>Oracle Solaris 10 1/13 VirtualBox Template</p> 	<p>This Oracle VM VirtualBox template is an Oracle Solaris 10 1/13 virtual machine providing a convenient way for evaluating the Oracle Solaris 10 1/13 operating system and development environment on 64 bit x86 systems.</p> <p>The download is 2.1GB.</p>	<p> Download Template</p> <p>Download ReadMe notes</p>
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Download Oracle VirtualBox:

<https://www.virtualbox.org/wiki/Downloads>

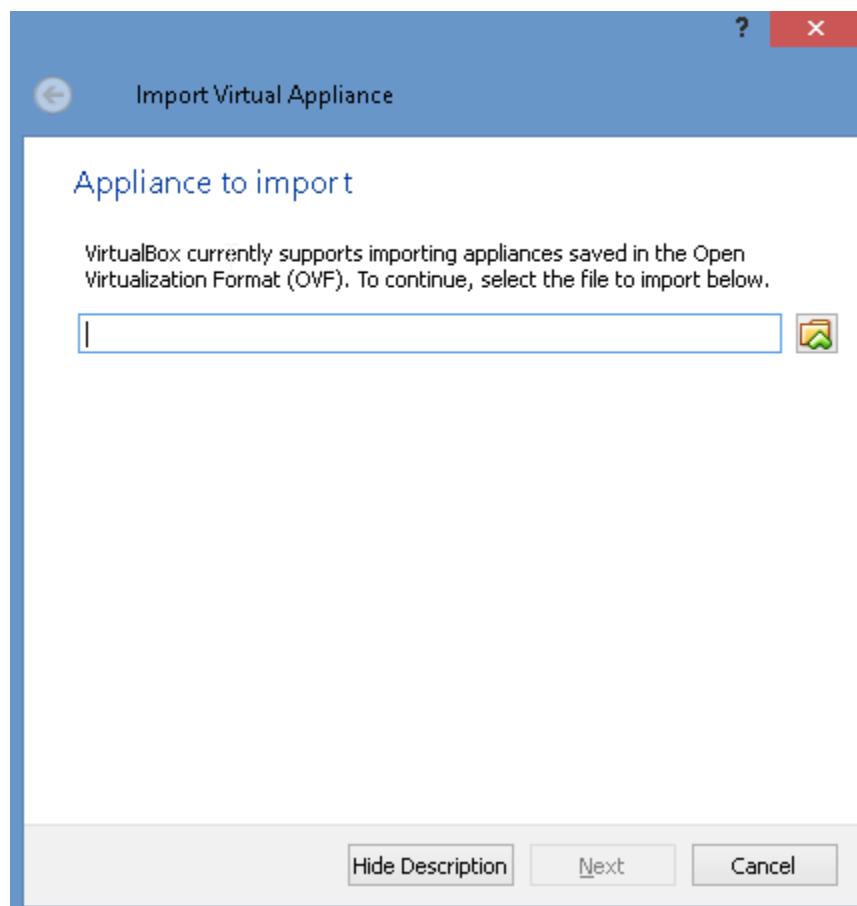
By downloading, you agree to the terms and conditions of the respective license.

- **VirtualBox platform packages.** The binaries are released under the terms of the GPL version 2.
 - **VirtualBox 4.3.2 for Windows hosts** ➔ x86/amd64

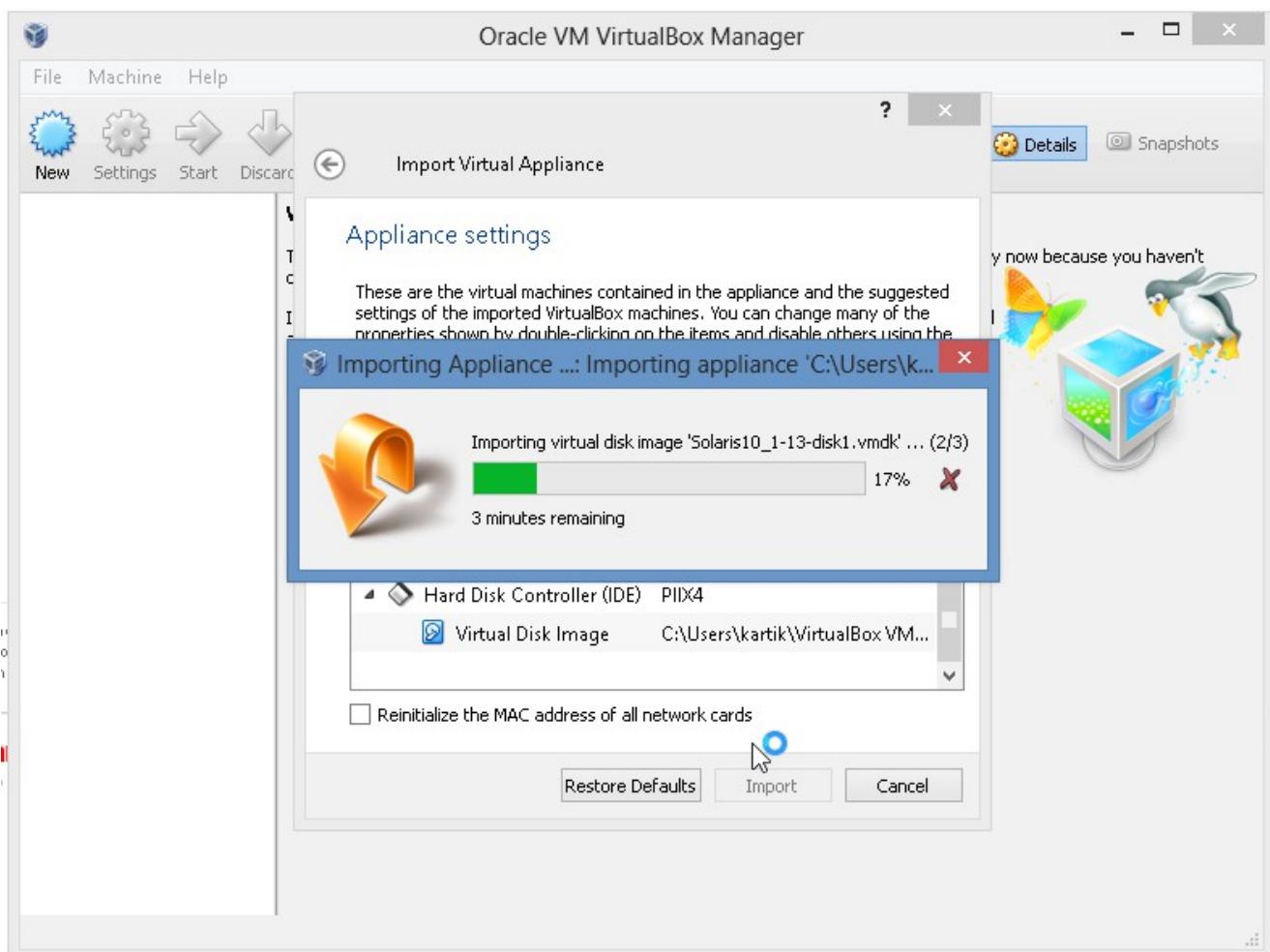
click on the link and download it

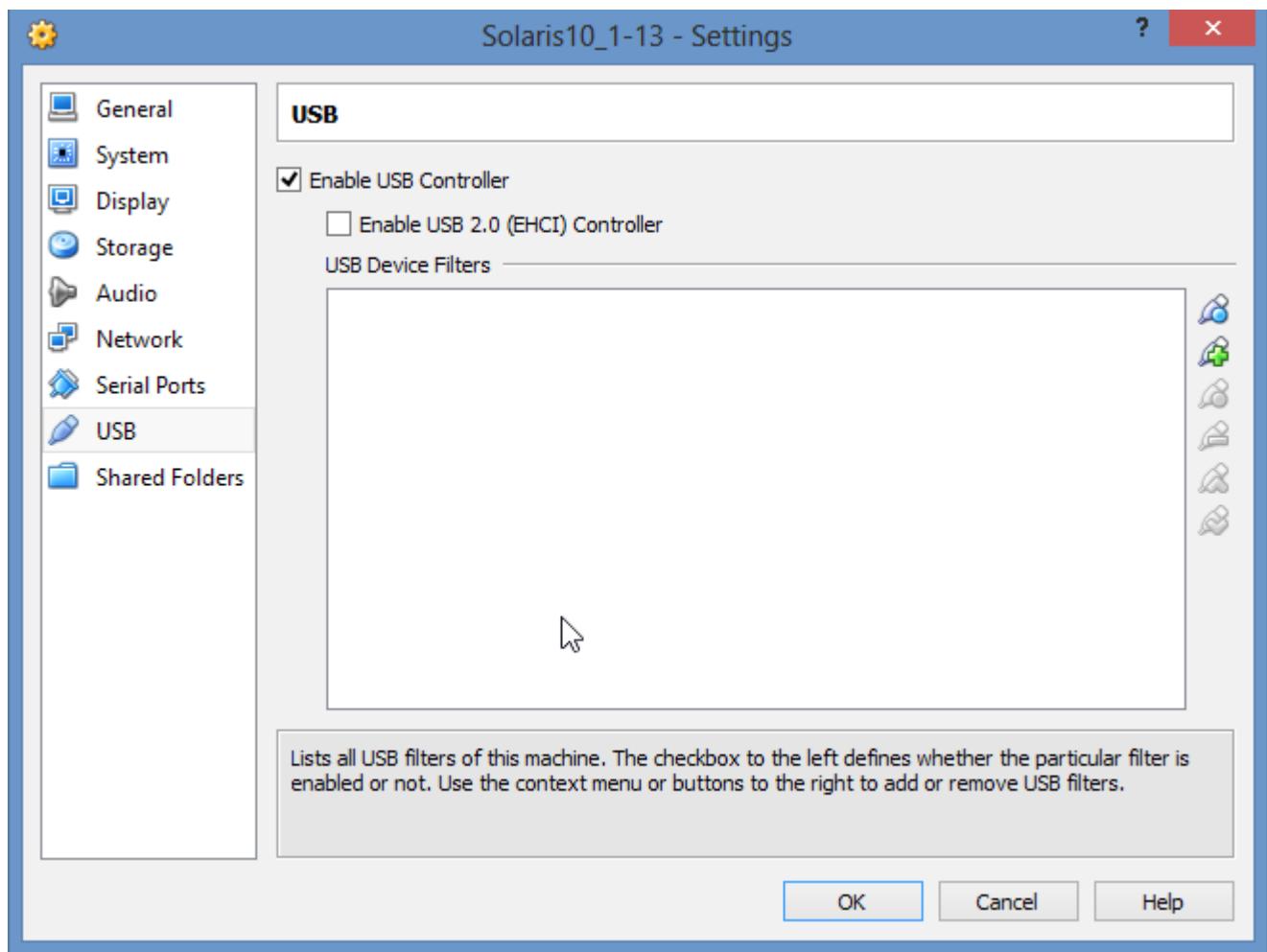
Launch Oracle VirtualBox

File – Import Appliance

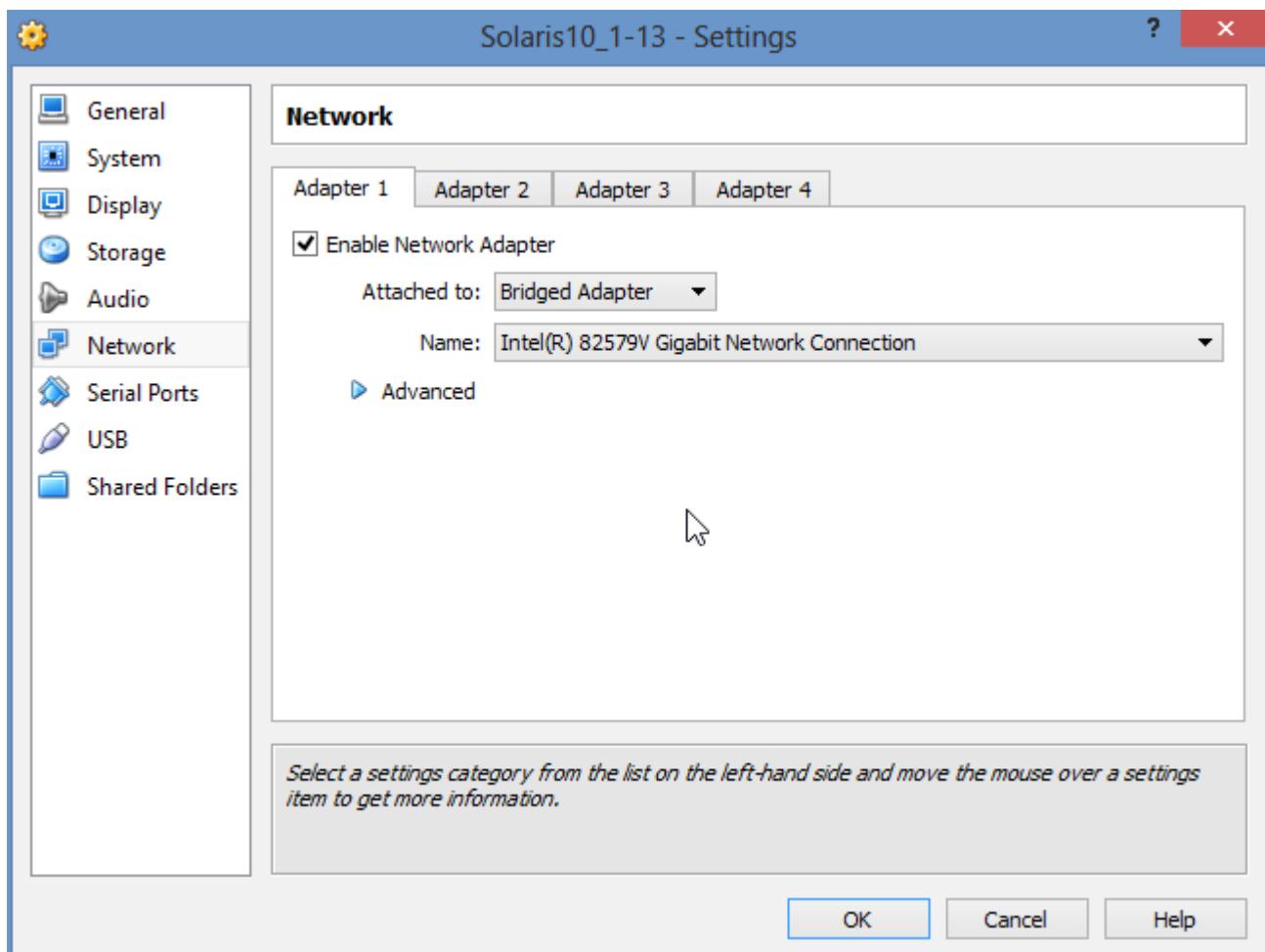


Browse to the location of the template you downloaded.

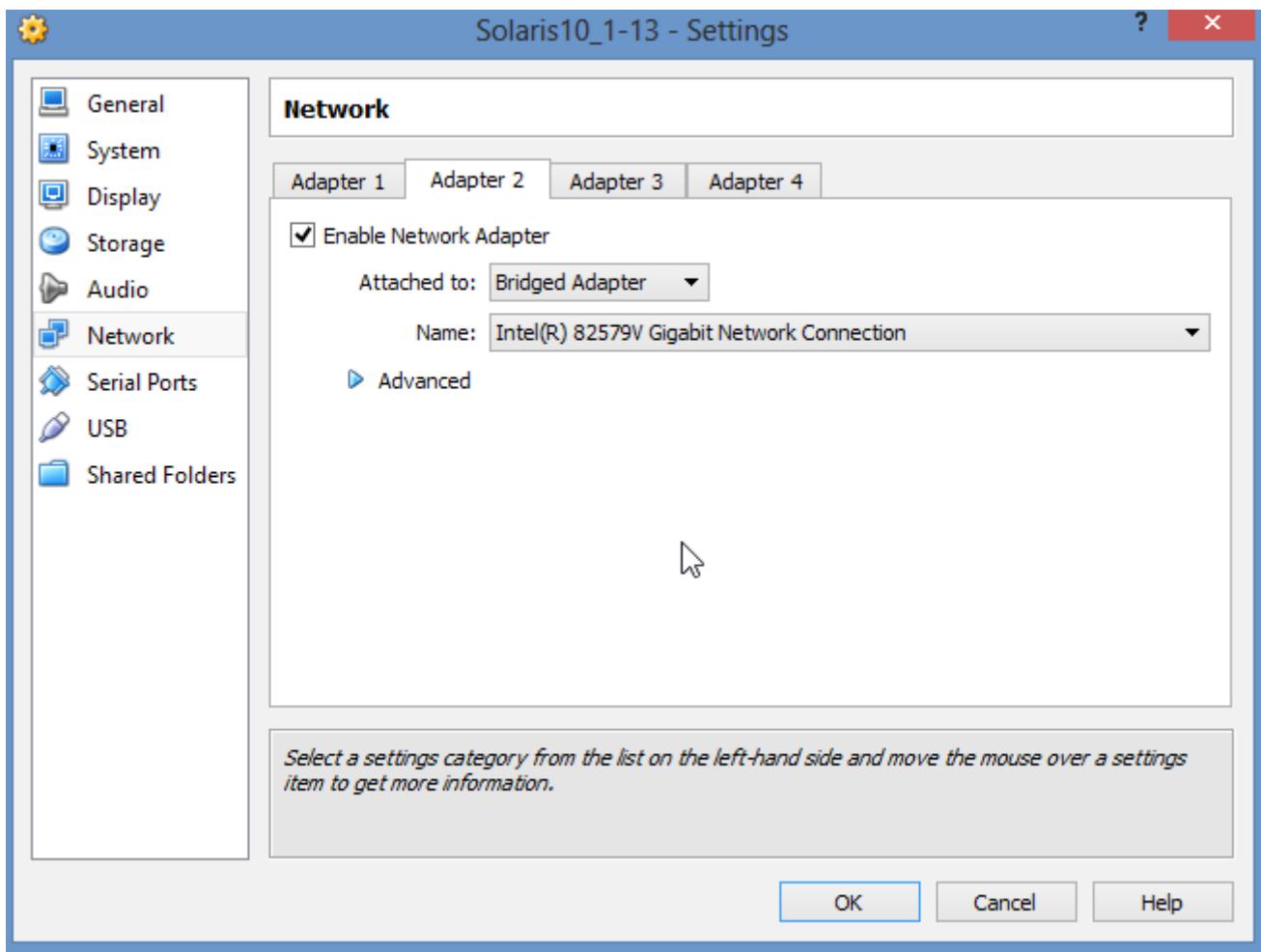




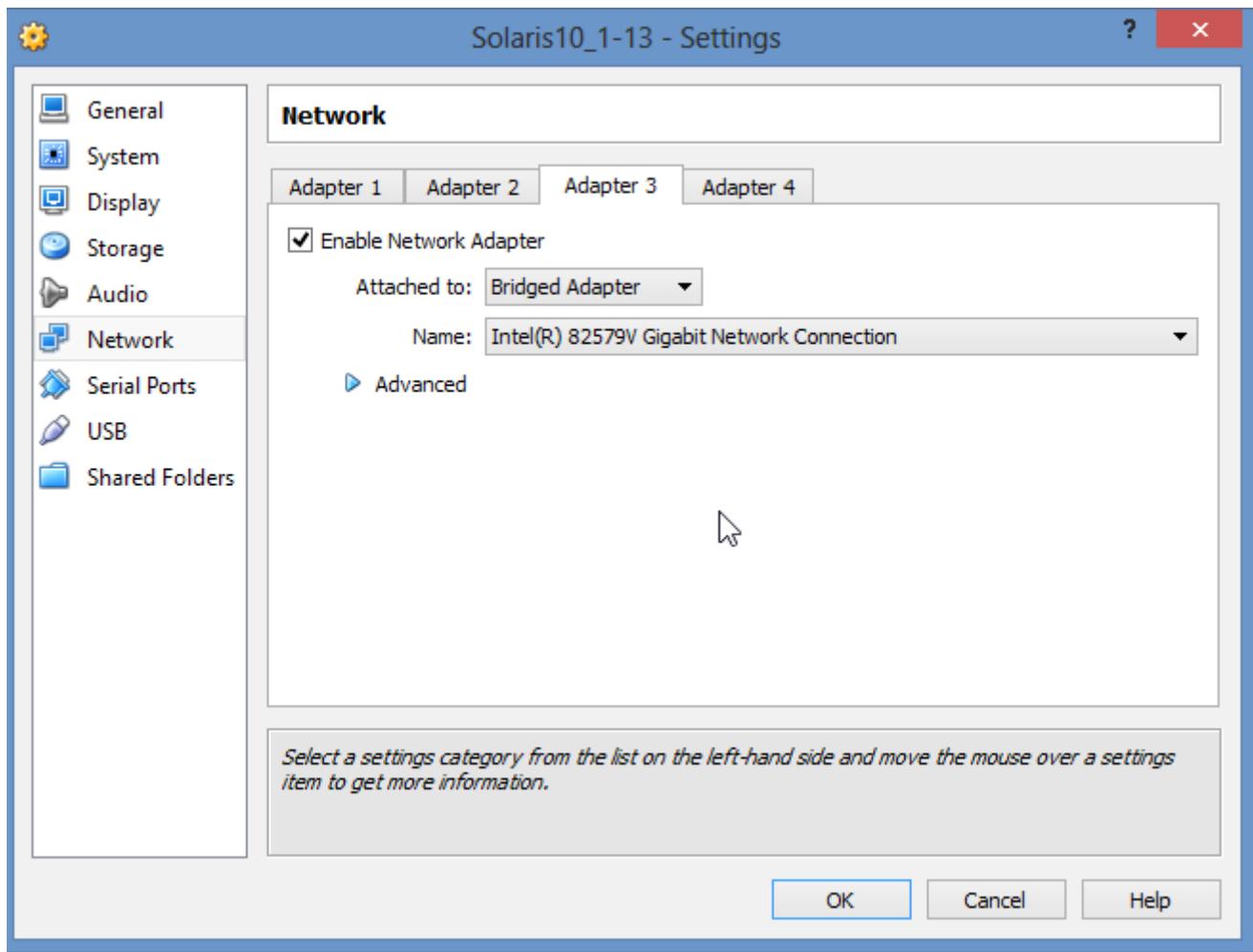
Disable USB 2.0 (EHCI)Controller



Please change Adapter 1 to “Bridged Adapter” Click on Adapter 2 after doing that.



Similarly for Adapter 3



Click “OK”

SIMILARLY FOR CREATING THE THE SECOND NODE, IMPORT APPLIANCE AGAIN AND DO IT.

Primary Network Interface

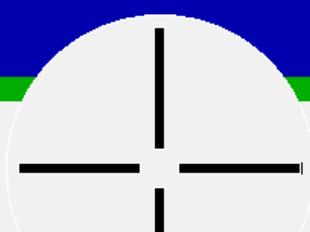
On this screen you must specify which of the following network adapters is the system's primary network interface. Usually the correct choice is the lowest number. However, do not guess; ask your system administrator if you're not sure.

> To make a selection, use the arrow keys to highlight the option and press Return to mark it [X].

Primary network interface

[X] e1000g0
[] e1000g1
[] e1000g2

Esc-2_Continue



only select e1000g0

Confirm Information for e1000g0

> Confirm the following information. If it is correct, press F2;
to change any information, press F4.

Networked: Yes
Primary network interface: e1000g0
Secondary network interfaces: e1000g1, e1000g2
 Use DHCP: No
 Host name: solaris10-1
 IP address: 10.0.0.41
System part of a subnet: Yes
 Netmask: 255.255.255.0
 Enable IPv6: No
 Default Route: Specify one
 Router IP Address: 10.0.0.1

Esc-Z_Continue Esc-4_Change Esc-6_Help

DHCP for e1000g1

Specify whether or not this network interface should use DHCP to configure itself. Choose Yes if DHCP is to be used, or No if the network interface is to be configured manually.

NOTE: DHCP support will not be enabled, if selected, until after the system reboots.

Use DHCP for e1000g1

 Yes
 No

Esc-Z_Continue Esc-6_Help

Confirm Information for e1000g1

> Confirm the following information. If it is correct, press F2; to change any information, press F4.

Use DHCP: No
Host name: solaries10-1-private-1
IP address: 13.13.13.13
System part of a subnet: Yes
Netmask: 255.255.255.0
Enable IPv6: No
Default Route: None

Esc-2_Continue Esc-4_Change Esc-6_Help

Name Service

On this screen you must provide name service information. Select the name service that will be used by this system, or None if your system will either not use a name service at all, or if it will use a name service not listed here.

> To make a selection, use the arrow keys to highlight the option and press Return to mark it [X].

Name service

 NIS+
 NIS
 DNS
 LDAP
 None

Esc-2_Continue Esc-6_Help

Confirm Information

> Confirm the following information. If it is correct, press F2; to change any information, press F4.

Name service: DNS
Domain name: comcast.net
Server address(es): 10.0.0.1
Search domain(s): comcast.net

Esc-2_Continue Esc-4_Change Esc-6_Help

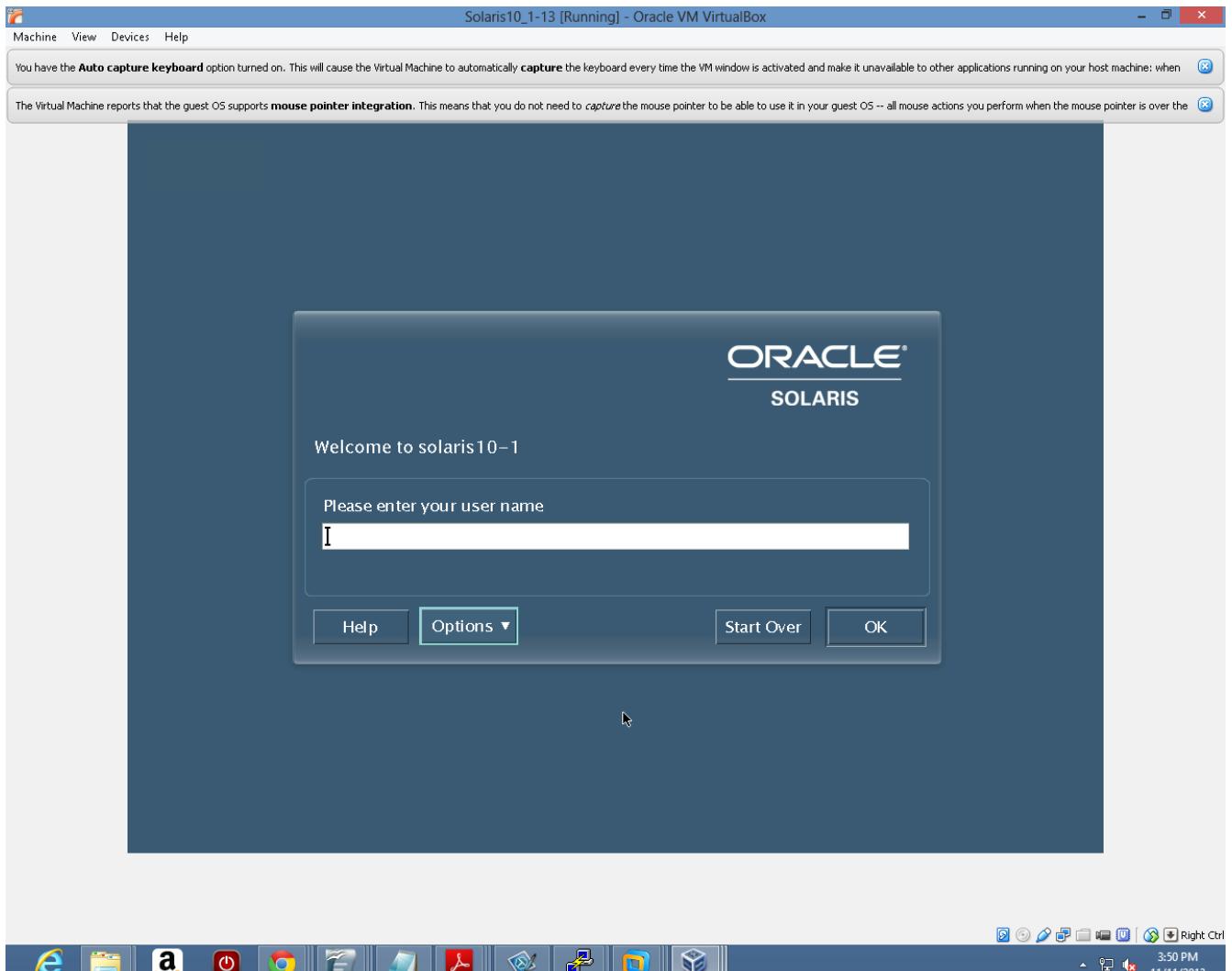
Name Service Error

Unable to find an address entry for solaris10-1 with the specified DNS configuration.

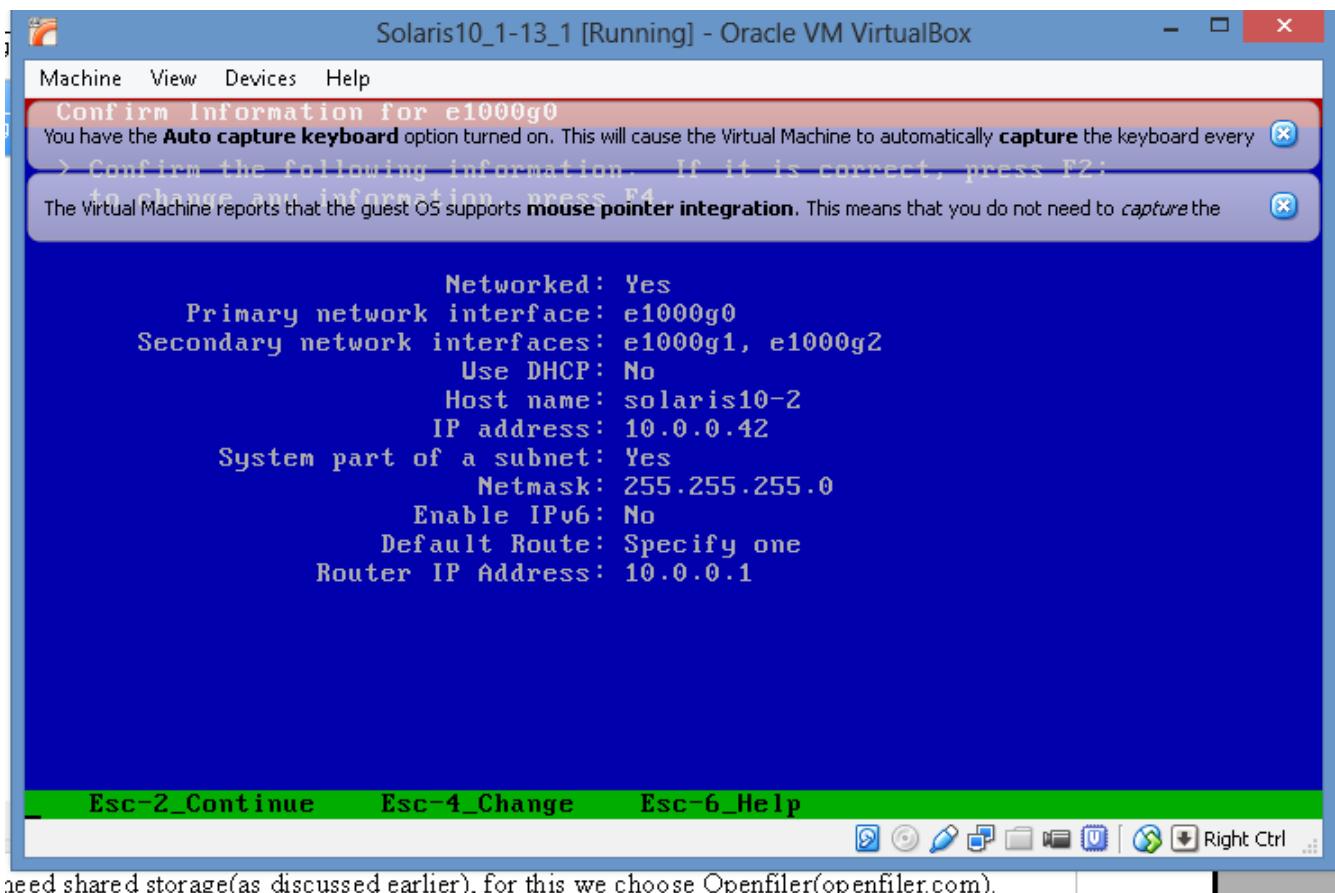
Enter new name service information?

Yes
 No

Esc-2_Continue Esc-6_Help



CONFIGURING THE SECOND SYSTEM(SECOND VIRTUAL MACHINE)



ETC

putty into the two systems after enabling root login in /etc/default/login(commenting out CONSOLE) and by changing PermitRootLogin yes in /etc/ssh/sshd_config and restarting ssh (svcadm restart ssh) scp over the VCS package. You may do this on any node.

```
bash-3.2# pwd
/var/tmp
bash-3.2# ls -al
total 2791377
drwxrwxrwt 5 root  sys  10 Nov 11 18:09 .
drwxr-xr-x 46 root  sys  46 Nov 11 17:48 ..
prw----- 1 root  root  0 Nov 11 17:49 .sysidtool_in
prw----- 1 root  root  0 Nov 11 17:49 .sysidtool_out
-rw-r--r-- 1 root  root  3 Nov 11 17:35 .sysidtool_pid
-rw-r--r-- 1 root  root  1428049920 Nov  8 17:30 VRTS_SF_HA_Solutions_6.0.1_Solaris_x64.tar
drwxr-xr-x 4 root  root  4 Aug  3 2012 dvd2-sol_x64
drwx----- 2 root  root  2 Jan 22 2013 gconfd-root
srwxr-xr-x 1 root  root  0 Jan 22 2013 mapping-root
drwx----- 2 root  root  19 Jan 22 2013 orbit-root
```

```
gzip -d  
tar xvf VRTS.....
```

```
bash-3.2# cd dvd2-sol_x64/  
bash-3.2# ls -al  
total 12  
drwxr-xr-x 4 root root 4 Aug 3 2012 .  
drwxrwxrwt 5 root sys 10 Nov 11 18:09 ..  
drwxr-xr-x 17 root root 20 Aug 3 2012 sol10_x64  
drwxr-xr-x 17 root root 20 Aug 3 2012 sol11_x64  
bash-3.2# cd sol10_x64/  
bash-3.2# ls -al  
total 105  
drwxr-xr-x 17 root root 20 Aug 3 2012 .  
drwxr-xr-x 4 root root 4 Aug 3 2012 ..  
drwxrwxr-x 4 root root 7 Aug 3 2012 cluster_server  
-rw-r--r-- 1 root root 860 Aug 3 2012 copyright  
drwxrwxr-x 10 root root 14 Aug 3 2012 docs  
drwxrwxr-x 3 root root 6 Aug 3 2012 dynamic_multipathing  
drwxrwxr-x 3 root root 6 Aug 3 2012 file_system  
-rwxr-xr-x 1 root root 6316 Jul 24 2012 installer  
drwxrwxr-x 4 root root 4 May 7 2012 perl  
drwxrwxr-x 2 root root 29 Aug 3 2012 pkgs  
drwxrwxr-x 7 root root 18 Aug 3 2012 scripts  
drwxrwxr-x 4 root root 7 Aug 3 2012 storage_foundation  
drwxrwxr-x 4 root root 7 Aug 3 2012 storage_foundation_cluster_file_system_ha  
drwxrwxr-x 4 root root 7 Aug 3 2012 storage_foundation_for_oracle_rac  
drwxrwxr-x 4 root root 7 Aug 3 2012 storage_foundation_high_availability  
drwxrwxr-x 3 root root 6 Aug 3 2012 virtualstore  
drwxrwxr-x 3 root root 6 Aug 3 2012 volume_manager  
-rwxr-xr-x 1 root root 18325 Jul 24 2012 webinstaller  
drwxrwxr-x 2 root root 3 Aug 3 2012 windows  
drwxrwxr-x 4 root root 4 Jul 24 2012 xprtl  
bash-3.2#
```

```
bash-3.2# echo "10.0.0.42 solaris10-2" >> /etc/hosts
```

AND ON THE OTHER NODE

```
bash-3.2# echo "10.0.0.41 solaris10-1" >> /etc/hosts
```

So that both nodes have the hostnames of each other.

BACK TO NODE1

```
bash-3.2# ./installer
```

This procedure has already been documented in <http://kartik.com/VCS101.pdf>

INSTALL HA SOLARIS 10 ZONE

after all is done

```
hagrp -add testgrp
```

VCS WARNING V-16-1-11335 Configuration must be ReadWrite : Use haconf -makerw

```
bash-3.2# haconf -makerw
```

```
bash-3.2# hagrp -add testgrp
```

VCS NOTICE V-16-1-10136 Group added; populating SystemList and setting the Parallel attribute recommended before adding resources

```
bash-3.2# hagrp -modify testgrp Parallel 0
```

```
bash-3.2# hagrp -modify testgrp SystemList solaris10-1 0 solaris10-2 1
```

```
bash-3.2# hagrp -modify testgrp AutoStartList solaris10-1
```

```
bash-3.2# hares -add vcspool Zpool testgrp
```

VCS NOTICE V-16-1-10242 Resource added. Enabled attribute must be set before agent monitors

```
bash-3.2# hares -modify vcspool Critical 1
```

```
bash-3.2# hares -modify vcspool ChkZFSMounts 1
```

```
bash-3.2# hares -modify vcspool FailMode continue
```

```
bash-3.2# hares -modify vcspool ForceOpt 1
```

```
bash-3.2# hares -modify vcspool ForceRecoverOpt 0
```

```
bash-3.2# hares -modify vcspool PoolName spool
```

```
bash-3.2# hares -modify vcspool AltRootPath /
```

```
bash-3.2# hares -modify vcspool ZoneResName vcszone
```

```
bash-3.2# hares -modify vcspool Enabled 1
```

```
bash-3.2# hazonesetup -g testgrp -r vcszone -z testzone -u admin -p password -a -s solaris10-1,solaris10-2
```

V-16-34-1107 Group testgrp is already present

VCS WARNING V-16-1-10563 Key solaris10-1 already in list.

VCS WARNING V-16-1-10563 Key solaris10-1 already in list.

VCS WARNING V-16-1-10563 Key solaris10-2 already in list.

V-16-34-1119 User admin already present

VCS ERROR V-16-1-11332 Invalid credentials, unable to create halogin session

If you see this message: VCS ERROR V-16-1-11332 Invalid credentials, unable to create halogin session

Then, edit the zone's /etc/hosts file and verify/add this:

127.0.0.1 localhost logost

10.0.0.45 testzone

10.0.0.41 solaris10-1

10.0.0.42 solaris10-2

try the command again

```
bash-3.2# hazonesetup -g testgrp -r vcszone -z testzone -u admin -p password -a -s solaris10-1,solaris10-2
V-16-34-1107 Group testgrp is already present
VCS WARNING V-16-1-10563 Key solaris10-1 already in list.
VCS WARNING V-16-1-10563 Key solaris10-1 already in list.
VCS WARNING V-16-1-10563 Key solaris10-2 already in list.
VCS WARNING V-16-1-10563 Key solaris10-2 already in list.
V-16-34-1114 Resource vcszone already present
V-16-34-1119 User admin already present
V-16-34-1120 User admin is already GroupAdministrator
bash-3.2# hares -link vcszone vcspool
bash-3.2# haconf -dump
bash-3.2# cd /etc/zones
bash-3.2# ls -al
total 34
drwxr-xr-x 2 root sys 8 Nov 11 19:09 .
drwxr-xr-x 93 root sys 262 Nov 11 19:06 ..
-r--r--r-- 1 root bin 392 Aug 8 2007 SUNWblank.xml
-r--r--r-- 1 root bin 562 Aug 8 2007 SUNWdefault.xml
-r--r--r-- 1 root bin 402 Jun 20 2007 SUNWIx.xml
-r--r--r-- 1 root bin 777 Mar 11 2008 SUNWtsoldef.xml
-rw-r--r-- 1 root sys 361 Nov 11 19:09 index
-rw-r--r-- 1 root root 342 Nov 11 18:55 testzone.xml
bash-3.2# scp testzone.xml solaris10-2:/etc/zones
scp index solaris10-2:/etc/zones
```

ON solaris10-2(NODE2) Edit the index file so that it looks like this:

```
global:installed:/
testzone:configured:/spool/mnt/testzone:
```

ON NODE 1

```
zoneadm -z testzone halt
zpool export spool
```

do a hastatus -sum

If you see any resources failed, do a
hares -clear <failed resource> -sys <system name>
For example

```
hares -clear vcszone -sys solaris10-1
hares -clear vcszone -sys solaris10-2
```

Now, switch the zone to NODE2

```
hagr -switch vcszone -to solaris10-2
```

Now, run the command:

```
hazonesetup -g testgrp -r vcszone -z testzone -u admin -p password -a -s solaris10-1,solaris10-2
```

You should not get any errors

ON THE ZONE:

```
zlogin testzone
```

edit /etc/default/login and comment out the line with CONSOLE, it should look like this:

```
#CONSOLE=/dev/console
```

edit /etc/sshd/sshd_config and permit root to ssh directly, by changing “no” to “yes”

```
PermitRootLogin yes
```

```
restart ssh
```

```
svcadm restart ssh
```

NOW WE CAN PUTTY TO THE ZONE WHENEVER WE LIKE

SWITCH THE ZONE BACK TO NODE 1

```
hagr -switch testgrp -to solaris10-1
```

```
do
```

```
hastatus -sum
```

```
hastatus -sum
```

```
hastatus -sum
```

again and again: OBSERVE THE RESULTS

NOTE OPEN ANOTHER PUTTY SESSION ON NODE 1 AND WATCH THE PROGRESS BY DOING A

```
tail -f /var/VRTSvcs/log/engine_A.log
```

ONCE THE ZONE IS ONLINE, you will see TESTGRP IN online STATE

NOW DOWNLOAD THE MySql community edition server for Solaris 10

scp the file to /var/tmp on the zone

NOW LOGIN TO THE ZONE

```
Create a mysql user and group  
groupadd mysql  
useradd -m /var/tmp/mysql -d -s /bin/bash -g mysql mysql
```

```
bash-3.2# pwd  
/var/tmp  
bash-3.2# ls -al  
.sysidtool_out: Checksum failure  
.sysidtool_in: Checksum failure  
.sysidtool_pid: Checksum failure  
total 906611  
drwxrwxrwt 2 root sys 6 Nov 11 20:01 .  
drwxr-xr-x 44 root sys 44 Nov 11 19:15 ..  
-rw-r--r-- 1 root root 463808344 Nov 10 09:44 mysql-5.5.34-solaris10-x86_64.pkg.gz  
bash-3.2# gzip -d mysql-5.5.34-solaris10-x86_64.pkg.gz  
  
bash-3.2# pkgadd -d mysql-5.5.34-solaris10-x86_64.pkg
```

The following packages are available:

```
1 mysql MySQL Community Server (GPL)  
(i86pc) 5.5.34
```

Select package(s) you wish to process (or 'all' to process all packages). (default: all) [?,??,q]:

do this:

```
chown -R mysql:mysql /opt/mysql  
chown -R mysql:mysql /var/lib/mysql
```

After successful install try starting mysql on the zone(if it works on the zone then we can put it under cluster control!!!!!!)

```
su – mysql
```

```
EDIT /opt/mysql/mysql/my.cnf
```

```
# http://dev.mysql.com/doc/refman/5.5/en/server-configuration-defaults.html
```

```
[mysqld]
```

```
# Remove leading # and set to the amount of RAM for the most important data  
# cache in MySQL. Start at 70% of total RAM for dedicated server, else 10%.  
# innodb_buffer_pool_size = 128M
```

```
# Remove leading # to turn on a very important data integrity option: logging  
# changes to the binary log between backups.  
# log_bin
```

```
# These are commonly set, remove the # and set as required.  
basedir = /opt/mysql/mysql  
datadir = /opt/mysql/mysql/data  
port = 3306  
# server_id = .....  
socket = /tmp/mysql.sock  
  
# Remove leading # to set options mainly useful for reporting servers.  
# The server defaults are faster for transactions and fast SELECTs.  
# Adjust sizes as needed, experiment to find the optimal values.  
# join_buffer_size = 128M  
# sort_buffer_size = 2M  
# read_rnd_buffer_size = 2M  
  
sql_mode=NO_ENGINE_SUBSTITUTION,STRICT_TRANS_TABLES  
#####end of file#####
```

```
mkdir /opt/mysql/mysql/data
```

```
cd /opt/mysql/mysql/bin
```

```
./mysqld_safe &  
NOTE the PID of the process(we have to kill it later)
```

```
also do this:  
tail -f /opt/mysql/mysql/data/testzone.err
```

```
NOTE errors if any
```

YOU MIGHT SEE THIS ERROR MESSAGE:
Fatal error: Can't open and lock privilege tables: Table 'mysql.host' doesn't exist
OR

Fatal error: Can't open and lock privilege tables: Table 'mysql.host' doesn't exist

Open another putty session on the zone
login as root
su – mysql
cd /opt/mysql/mysql/
So we have to do this:
./scripts/mysql_install_db –user=mysql –ldata=/opt/mysql/mysql/data

kill all mysql processes and restart
./mysqld_safe &

NOTE: PLEASE WATCH THE OUTPUT OF tail -f /opt/mysql/mysql/data/testzone.err IN THE PREVIOUS PUTTY SESSION, DOES IT GIVE ANY ERRORS?

CONTACT ME AT kartik.unix@gmail.com if you are getting errors

ON EACH NODE INSTALL THE ACC LIBRARY PACKAGE

To install the ACC library

1 Log in as superuser.

2 Download ACC Library.

You can download either the complete Agent Pack tar file or the individual ACCLib tar file from the Symantec Operations Readiness Tools (SORT) site (<https://sort.symantec.com/agents>).

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Agent type: All Application Agent Bundled Agents Database Agent

Application: All ACC Library Apache Apache ActiveMQ Application Agent Builder ApplicationHA Console BEA AquaLogic Service Bus CCI

Release VCS: All VCS 6.0.3 VCS 6.0.2 VCS 6.0

VCS One: All VCS One 5.0 VCS One 2.0

ApplicationHA: All

Platform: All AIX HP-UX Oracle Linux Red Hat Enterprise Linux Solaris SUSE Linux Enterprise Server VMware ESX Windows

Architecture: All SPARC x86-64

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Agent Pack 3Q2013	
Getting Started Guide Release Notes	
Application version	Solaris
ACC Library	 Solaris 10 VCS 6.0 x86-64

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Agent type: All Application Agent Bundled Agents Database Agent

Application: All IBM DB2 Database IBM Informix Dynamic Server MySQL Oracle Database Oracle Database with ASM PostgreSQL SAP MAXDB

Release: VCS: All VCS 6.0 VCS 5.1 VCS 5.0

VCS One: All

Application-HA: All Application-HA 6.0

Platform: All AIX HP-UX Oracle Linux Red Hat Enterprise Linux Solaris SUSE Linux Enterprise Server VMware ESX Windows

Architecture: All SPARC x86-64

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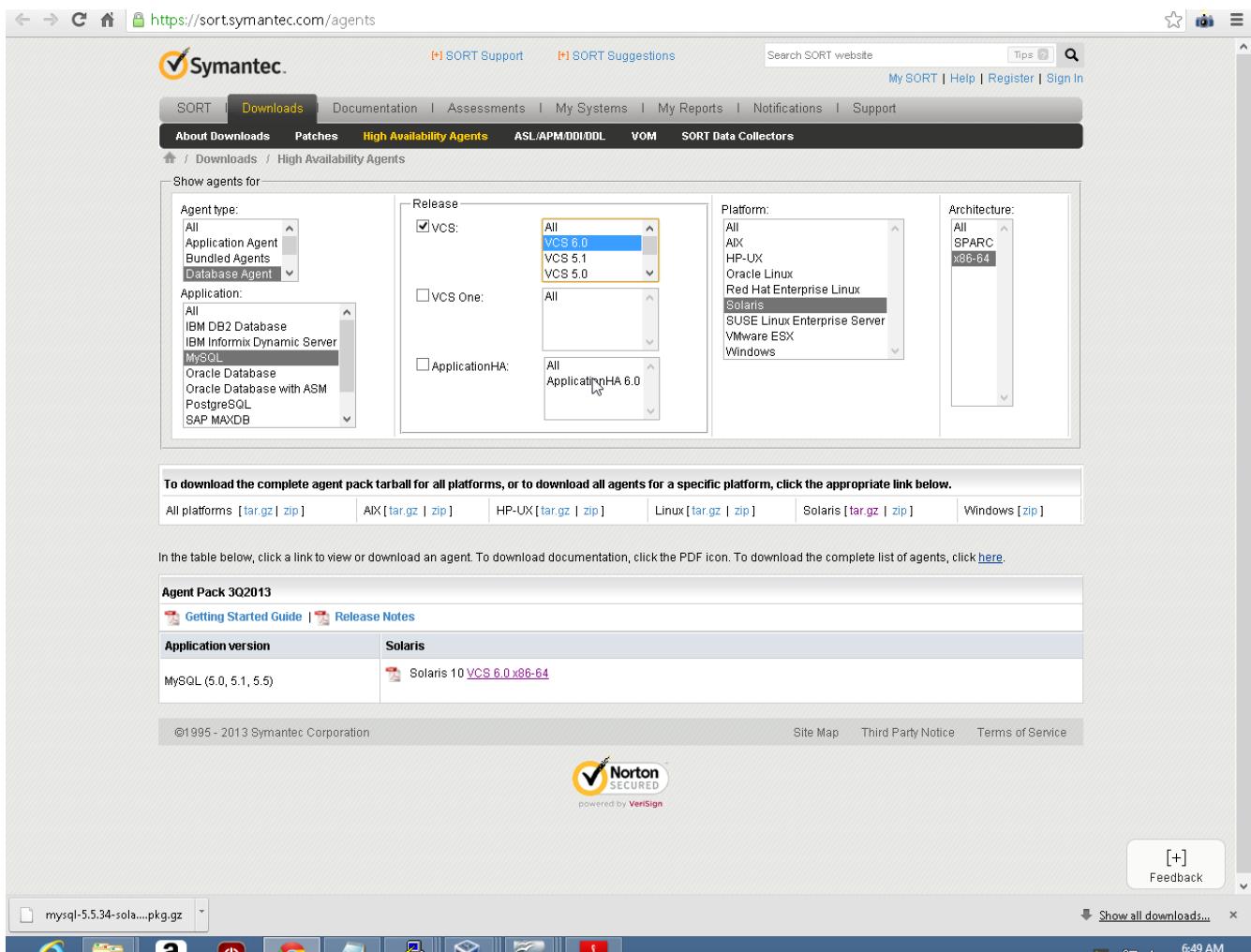
Agent Pack 3Q2013	
	 Getting Started Guide  Release Notes
Application version	Solaris
MySQL (5.0, 5.1, 5.5)	 Solaris 10 VCS 6.0 x86-64

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mysql-5.5.34-sola...pkg.gz Show all downloads... 6:49 AM



SCP BOTH AGENTS TO BOTH NODES

NODE1

```
bash-3.2# ls -al /var/tmp
total 2794224
drwxrwxrwt 5 root  sys      13 Nov 11 19:59 .
drwxr-xr-x 51 root  sys      51 Nov 11 18:27 ..
prw----- 1 root  root     0 Nov 11 17:49 .sysidtool_in
prw----- 1 root  root     0 Nov 11 17:49 .sysidtool_out
-rw-r--r-- 1 root  root     3 Nov 11 17:35 .sysidtool_pid
-rw-r--r-- 1 root  root   396067 Nov 10 18:00 HA_ag_acc_library_5.2.4.0_VCS6.0_Solaris_x86-64.tar.gz
-rw-r--r-- 1 root  root   838740 Nov 10 17:59 HA_ag_mysql_agent_5.1.2.0_VCS6.0_Solaris_x86-64.tar.gz
-rw-r--r-- 1 root  root  1428049920 Nov  8 17:30 VRTS_SF_HA_Solutions_6.0.1_Solaris_x64.tar
drwxr-xr-x 4 root  root     4 Aug  3 2012 dvd2-sol_x64
drwx----- 2 root  root    2 Jan 22 2013 gconfd-root
srwxr-xr-x 1 root  root     0 Jan 22 2013 mapping-root
drwx----- 2 root  root    19 Jan 22 2013 orbit-root
-rw-r--r-- 1 root  other   698 Nov 11 19:08 vpwd.SunOS.solaris10-1
```

```

bash-3.2# cd /var/tmp
bash-3.2# scp HA_ag_acc_library_5.2.4.0_VCS6.0_Solaris_x86-64.tar.gz solaris10-2:/var/tmp
Password:
HA_ag_acc_library_5. 100% |
*****
*****| 386 KB 00:00
bash-3.2# gzip -d HA_ag_acc_library_5.2.4.0_VCS6.0_Solaris_x86-64.tar.gz
bash-3.2# ls -al
total 2793196
drwxrwxrwt 5 root sys 13 Nov 11 20:19 .
drwxr-xr-x 51 root sys 51 Nov 11 18:27 ..
prw----- 1 root root 0 Nov 11 17:49 .sysidtool_in
prw----- 1 root root 0 Nov 11 17:49 .sysidtool_out
-rw-r--r-- 1 root root 3 Nov 11 17:35 .sysidtool_pid
-rw-r--r-- 1 root root 542720 Nov 10 18:00 HA_ag_acc_library_5.2.4.0_VCS6.0_Solaris_x86-64.tar
-rw-r--r-- 1 root root 838740 Nov 10 17:59 HA_ag_mysql_agent_5.1.2.0_VCS6.0_Solaris_x86-64.tar.gz
-rw-r--r-- 1 root root 1428049920 Nov 8 17:30 VRTS_SF_HA_Solutions_6.0.1_Solaris_x64.tar
drwxr-xr-x 4 root root 4 Aug 3 2012 dvd2-sol_x64
drwx----- 2 root root 2 Jan 22 2013 gconfd-root
srwxr-xr-x 1 root root 0 Jan 22 2013 mapping-root
drwx----- 2 root root 19 Jan 22 2013 orbit-root
-rw-r--r-- 1 root other 698 Nov 11 19:08 vpwd.SunOS.solaris10-1
bash-3.2# tar xvf HA_ag_acc_library_5.2.4.0_VCS6.0_Solaris_x86-64.tar
x ., 0 bytes, 0 tape blocks
x ./docs, 0 bytes, 0 tape blocks
x ./docs/acclib_install.pdf, 455474 bytes, 890 tape blocks
x ./pkgs, 0 bytes, 0 tape blocks
x ./pkgs/VRTSacclib.pkg, 73728 bytes, 144 tape blocks
bash-3.2# ls -al
total 2794484
drwxr-xr-x 7 root root 15 Sep 27 04:59 .
drwxr-xr-x 51 root sys 51 Nov 11 18:27 ..
prw----- 1 root root 0 Nov 11 17:49 .sysidtool_in
prw----- 1 root root 0 Nov 11 17:49 .sysidtool_out
-rw-r--r-- 1 root root 3 Nov 11 17:35 .sysidtool_pid
-rw-r--r-- 1 root root 542720 Nov 10 18:00 HA_ag_acc_library_5.2.4.0_VCS6.0_Solaris_x86-64.tar
-rw-r--r-- 1 root root 838740 Nov 10 17:59 HA_ag_mysql_agent_5.1.2.0_VCS6.0_Solaris_x86-64.tar.gz
-rw-r--r-- 1 root root 1428049920 Nov 8 17:30 VRTS_SF_HA_Solutions_6.0.1_Solaris_x64.tar
drwxrwxr-x 2 root root 3 Sep 27 04:59 docs
drwxr-xr-x 4 root root 4 Aug 3 2012 dvd2-sol_x64
drwx----- 2 root root 2 Jan 22 2013 gconfd-root
srwxr-xr-x 1 root root 0 Jan 22 2013 mapping-root
drwx----- 2 root root 19 Jan 22 2013 orbit-root
drwxrwxr-x 2 root root 3 Sep 27 04:59 pkgs
-rw-r--r-- 1 root other 698 Nov 11 19:08 vpwd.SunOS.solaris10-1

```

```
bash-3.2#
```

```
bash-3.2# cd pkgs
bash-3.2# ls -al
total 169
drwxrwxr-x 2 root root 3 Sep 27 04:59 .
drwxr-xr-x 8 root root 16 Nov 11 20:21 ..
-rwxr-xr-x 1 root root 73728 Sep 9 2010 VRTSacclib.pkg
bash-3.2# pkgadd -d VRTSacclib.pkg
```

The following packages are available:

```
1 VRTSacclib Veritas Cluster Server ACC Library by Symantec
(i386) 5.2
```

Select package(s) you wish to process (or 'all' to process all packages). (default: all) [?,??,q]:

```
## Verifying package <VRTSacclib> dependencies in zone <testzone>
WARNING: setting mode of </opt/VRTS/.ACCLib> to default mode (755)
WARNING: setting mode of </opt/VRTS/.ACCLib/compat> to default mode (755)
WARNING: setting mode of </opt/VRTS/.ACCLib/network> to default mode (755)
WARNING: setting mode of </opt/VRTS/.ACCLib/system> to default mode (755)
WARNING: setting mode of </opt/VRTS/.ACCLib/vcs> to default mode (755)
```

The package <VRTSacclib> contains scripts which will be executed on zone <testzone> with super-user permission during the process of installing this package.

Do you want to continue with the installation of <VRTSacclib> [y,n,?] y

```
Processing package instance <VRTSacclib> from </var/tmp/pkgs/VRTSacclib.pkg>
## Installing package <VRTSacclib> in global zone
```

```
Veritas Cluster Server ACC Library by Symantec(i386) 5.2
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```

```
Using </> as the package base directory.
## Processing package information.
## Processing system information.
```

```
WARNING: setting mode of </opt/VRTS/.ACCLib> to default mode (755)
WARNING: setting mode of </opt/VRTS/.ACCLib/compat> to default mode (755)
WARNING: setting mode of </opt/VRTS/.ACCLib/network> to default mode (755)
WARNING: setting mode of </opt/VRTS/.ACCLib/system> to default mode (755)
WARNING: setting mode of </opt/VRTS/.ACCLib/vcs> to default mode (755)
```

```
4 package pathnames are already properly installed.
```

```
## Verifying package dependencies.
```

```
## Verifying disk space requirements.
```

```
## Checking for conflicts with packages already installed.
```

```
## Checking for setuid/setgid programs.
```

This package contains scripts which will be executed with super-user permission during the process of installing this package.

Do you want to continue with the installation of <VRTSacclib> [y,n,?] y

Installing Veritas Cluster Server ACC Library by Symantec as <VRTSacclib>

```
## Installing part 1 of 1.
```

```
opt/VRTS/.ACCLib/compat/ag_i18n_inc_v35.pm
opt/VRTS/.ACCLib/network/Comms.pm
opt/VRTS/.ACCLib/system/Arch.pm
opt/VRTS/.ACCLib/system/Lock.pm
opt/VRTS/.ACCLib/system/Proc.pm
opt/VRTS/.ACCLib/system/Sys.pm
opt/VRTS/.ACCLib/vcs/Group.pm
opt/VRTS/.ACCLib/vcs/Hagrp.pm
opt/VRTS/.ACCLib/vcs/Hares.pm
opt/VRTS/.ACCLib/vcs/Hasys.pm
opt/VRTS/.ACCLib/vcs/Hatype.pm
opt/VRTS/.ACCLib/vcs/LogInt.pm
opt/VRTS/.ACCLib/vcs/Resource.pm
opt/VRTS/.ACCLib/vcs/VCSDefines.pm
opt/VRTS/.ACCLib/vcs/VCSHighLevel.pm
opt/VRTS/.ACCLib/vcs/VCSType.pm
opt/VRTS/.ACCLib/vcs/VCSagentFW.pm
opt/VRTS/.ACCLib/vcs/Version.pm
opt/VRTS/messages/en/VRTSvcsSunVRTSacclib.bmc
918 blocks
```

```
## Executing postinstall script.
```

Installation of <VRTSacclib> was successful.

```
## Installing package <VRTSacclib> in zone <testzone>
```

Veritas Cluster Server ACC Library by Symantec(i386) 5.2

Using </> as the package base directory.

```
## Processing package information.
```

```
## Processing system information.
```

```
WARNING: setting mode of </opt/VRTS/.ACCLib> to default mode (755)
```

```
WARNING: setting mode of </opt/VRTS/.ACCLib/compat> to default mode (755)
WARNING: setting mode of </opt/VRTS/.ACCLib/network> to default mode (755)
WARNING: setting mode of </opt/VRTS/.ACCLib/system> to default mode (755)
WARNING: setting mode of </opt/VRTS/.ACCLib/vcs> to default mode (755)
```

4 package pathnames are already properly installed.

Installing Veritas Cluster Server ACC Library by Symantec as <VRTSacclib>

Installing part 1 of 1.

```
opt/VRTS/.ACCLib/compat/ag_i18n_inc_v35.pm
opt/VRTS/.ACCLib/network/Comms.pm
opt/VRTS/.ACCLib/system/Arch.pm
opt/VRTS/.ACCLib/system/Lock.pm
opt/VRTS/.ACCLib/system/Proc.pm
opt/VRTS/.ACCLib/system/Sys.pm
opt/VRTS/.ACCLib/vcs/Group.pm
opt/VRTS/.ACCLib/vcs/Hagrp.pm
opt/VRTS/.ACCLib/vcs/Hares.pm
opt/VRTS/.ACCLib/vcs/Hasys.pm
opt/VRTS/.ACCLib/vcs/Hatype.pm
opt/VRTS/.ACCLib/vcs/LogInt.pm
opt/VRTS/.ACCLib/vcs/Resource.pm
opt/VRTS/.ACCLib/vcs/VCSDefines.pm
opt/VRTS/.ACCLib/vcs/VCSHighLevel.pm
opt/VRTS/.ACCLib/vcs/VCSType.pm
opt/VRTS/.ACCLib/vcs/VCSagentFW.pm
opt/VRTS/.ACCLib/vcs/Version.pm
opt/VRTS/messages/en/VRTSvcsSunVRTSacclib.bmc
918 blocks
```

Executing postinstall script.

Installation of <VRTSacclib> on zone <testzone> was successful.

Bash-3.2#

NOW INSTALL ON NODE 2

THEN GO BACK TO NODE 1

```
bash-3.2# gzip -d HA_ag_mysql_agent_5.1.2.0_VCS6.0_Solaris_x86-64.tar.gz
bash-3.2# tar xvf HA_ag_mysql_agent_5.1.2.0_VCS6.0_Solaris_x86-64.tar
x ., 0 bytes, 0 tape blocks
x ./docs, 0 bytes, 0 tape blocks
x ./docs/vcs_mysql_install.pdf, 1202908 bytes, 2350 tape blocks
x ./pkgs, 0 bytes, 0 tape blocks
x ./pkgs/VRTSmysql, 0 bytes, 0 tape blocks
x ./pkgs/VRTSmysql/pkgmap, 1637 bytes, 4 tape blocks
x ./pkgs/VRTSmysql/pkginfo, 271 bytes, 1 tape blocks
x ./pkgs/VRTSmysql/root, 0 bytes, 0 tape blocks
```

```
x ./pkgs/VRTSmysql/root/etc, 0 bytes, 0 tape blocks
x ./pkgs/VRTSmysql/root/etc/VRTSagents, 0 bytes, 0 tape blocks
x ./pkgs/VRTSmysql/root/etc/VRTSagents/ha, 0 bytes, 0 tape blocks
x ./pkgs/VRTSmysql/root/etc/VRTSagents/ha/conf, 0 bytes, 0 tape blocks
x ./pkgs/VRTSmysql/root/etc/VRTSagents/ha/conf/MySQL, 0 bytes, 0 tape blocks
x ./pkgs/VRTSmysql/root/etc/VRTSagents/ha/conf/MySQL/MySQLTypes50.cf, 690 bytes, 2 tape
blocks
x ./pkgs/VRTSmysql/root/etc/VRTSagents/ha/conf/MySQL/MySQLTypes51.cf, 707 bytes, 2 tape
blocks
x ./pkgs/VRTSmysql/root/etc/VRTSagents/ha/conf/MySQL/main.cf, 1454 bytes, 3 tape blocks
x ./pkgs/VRTSmysql/root/etc/VRTSagents/ha/conf/MySQL/main_zones.cf, 1124 bytes, 3 tape blocks
x ./pkgs/VRTSmysql/root/opt, 0 bytes, 0 tape blocks
x ./pkgs/VRTSmysql/root/opt/VRTS, 0 bytes, 0 tape blocks
x ./pkgs/VRTSmysql/root/opt/VRTS/messages, 0 bytes, 0 tape blocks
x ./pkgs/VRTSmysql/root/opt/VRTS/messages/en, 0 bytes, 0 tape blocks
x ./pkgs/VRTSmysql/root/opt/VRTS/messages/en/VRTSvcsSunMySQL.bmc, 4870 bytes, 10 tape
blocks
x ./pkgs/VRTSmysql/root/opt/VRTSagents, 0 bytes, 0 tape blocks
x ./pkgs/VRTSmysql/root/opt/VRTSagents/ha, 0 bytes, 0 tape blocks
x ./pkgs/VRTSmysql/root/opt/VRTSagents/ha/bin, 0 bytes, 0 tape blocks
x ./pkgs/VRTSmysql/root/opt/VRTSagents/ha/bin/MySQL, 0 bytes, 0 tape blocks
x ./pkgs/VRTSmysql/root/opt/VRTSagents/ha/bin/MySQL/MySQL.pm, 99552 bytes, 195 tape blocks
x ./pkgs/VRTSmysql/root/opt/VRTSagents/ha/bin/MySQL/MySQL.xml, 10824 bytes, 22 tape blocks
x ./pkgs/VRTSmysql/root/opt/VRTSagents/ha/bin/MySQL/imf_init, 1903 bytes, 4 tape blocks
x ./pkgs/VRTSmysql/root/opt/VRTSagents/ha/bin/MySQL/monitor, 22907 bytes, 45 tape blocks
x ./pkgs/VRTSmysql/install, 0 bytes, 0 tape blocks
x ./pkgs/VRTSmysql/install/copyright, 862 bytes, 2 tape blocks
x ./pkgs/VRTSmysql/install/depend, 1228 bytes, 3 tape blocks
x ./pkgs/VRTSmysql/install/postinstall, 2283 bytes, 5 tape blocks
x ./pkgs/VRTSmysql/install/postremove, 3234 bytes, 7 tape blocks
bash-3.2#
```

```
bash-3.2# cd pkgs
bash-3.2# ls -al
total 170
drwxrwxr-x 3 root  root      4 Sep 27 04:59 .
drwxr-xr-x  8 root  root     16 Sep 27 04:59 ..
-rwxr-xr-x  1 root  root  73728 Sep  9 2010 VRTSaclib.pkg
drwxrwxr-x  4 root  root      6 Mar 21  2012 VRTSmysql
bash-3.2# pkgadd -d .
```

The following packages are available:

```
1 VRTSmysql Veritas High Availability Agent for MySQL by Symantec
(i386) 5.1.2.0
```

Select package(s) you wish to process (or 'all' to process
all packages). (default: all) [?,??,q]:

hit enter

```
bash-3.2# pkgadd -d .
```

The following packages are available:

```
1 VRTSmysql Veritas High Availability Agent for MySQL by Symantec  
(i386) 5.1.2.0
```

Select package(s) you wish to process (or 'all' to process

all packages). (default: all) [?,??,q]:

```
## Verifying package <VRTSmysql> dependencies in zone <testzone>
```

```
WARNING: setting mode of </etc/VRTSagents/ha/conf/MySQL> to default mode (755)
```

```
WARNING: setting mode of </opt/VRTSagents/ha/bin/MySQL> to default mode (755)
```

The package <VRTSmysql> contains scripts which will be executed on
zone <testzone> with super-user permission during the process of
installing this package.

Do you want to continue with the installation of <VRTSmysql> [y,n,?] y

```
Processing package instance <VRTSmysql> from </var/tmp/pkgs>
```

```
## Installing package <VRTSmysql> in global zone
```

Veritas High Availability Agent for MySQL by Symantec(i386) 5.1.2.0

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by the U.S. Government shall be solely in accordance with the terms of this
Agreement.

```
## Processing package information.
```

```
## Processing system information.
```

```
WARNING: setting mode of </etc/VRTSagents/ha/conf/MySQL> to default mode (755)
```

```
WARNING: setting mode of </opt/VRTSagents/ha/bin/MySQL> to default mode (755)
```

```
11 package pathnames are already properly installed.
```

```
## Verifying package dependencies.
```

```
## Verifying disk space requirements.
```

```
## Checking for conflicts with packages already installed.
```

```
## Checking for setuid/setgid programs.
```

This package contains scripts which will be executed with super-user permission during the process of installing this package.

Do you want to continue with the installation of <VRTSmysql> [y,n,?] y

Installing Veritas High Availability Agent for MySQL by Symantec as <VRTSmysql>

Installing part 1 of 1.

```
/etcVRTSagents/ha/conf/MySQL/MySQLTypes50.cf  
/etcVRTSagents/ha/conf/MySQL/MySQLTypes51.cf  
/etcVRTSagents/ha/conf/MySQL/main.cf  
/etcVRTSagents/ha/conf/MySQL/main_zones.cf  
/optVRTS/messages/en/VRTSvcsSunMySQL.bmc  
/optVRTSagents/ha/bin/MySQL/MySQL.pm  
/optVRTSagents/ha/bin/MySQL/MySQL.xml  
/optVRTSagents/ha/bin/MySQL/clean <symbolic link>  
/optVRTSagents/ha/bin/MySQL/imf_init  
/optVRTSagents/ha/bin/MySQL/monitor  
/optVRTSagents/ha/bin/MySQL/offline <symbolic link>  
/optVRTSagents/ha/bin/MySQL/online <symbolic link>  
[ verifying class <none> ]  
## Executing postinstall script.
```

Installation of <VRTSmysql> was successful.

Installing package <VRTSmysql> in zone <testzone>

Veritas High Availability Agent for MySQL by Symantec(i386) 5.1.2.0

Processing package information.

Processing system information.

WARNING: setting mode of </etcVRTSagents/ha/conf/MySQL> to default mode (755)

WARNING: setting mode of </optVRTSagents/ha/bin/MySQL> to default mode (755)

11 package pathnames are already properly installed.

Installing Veritas High Availability Agent for MySQL by Symantec as <VRTSmysql>

Installing part 1 of 1.

```
/etcVRTSagents/ha/conf/MySQL/MySQLTypes50.cf  
/etcVRTSagents/ha/conf/MySQL/MySQLTypes51.cf  
/etcVRTSagents/ha/conf/MySQL/main.cf  
/etcVRTSagents/ha/conf/MySQL/main_zones.cf  
/optVRTS/messages/en/VRTSvcsSunMySQL.bmc  
/optVRTSagents/ha/bin/MySQL/MySQL.pm  
/optVRTSagents/ha/bin/MySQL/MySQL.xml  
/optVRTSagents/ha/bin/MySQL/clean <symbolic link>  
/optVRTSagents/ha/bin/MySQL/imf_init  
/optVRTSagents/ha/bin/MySQL/monitor  
/optVRTSagents/ha/bin/MySQL/offline <symbolic link>  
/optVRTSagents/ha/bin/MySQL/online <symbolic link>
```

```
[ verifying class <none> ]
## Executing postinstall script.
```

Installation of <VRTSmysql> on zone <testzone> was successful.

Bash-3.2#

NOW INSTALL IT ON NODE 2

after installing on NODE2, go to NODE1 and do this:

```
bash-3.2# mkdir /tmp/temp
bash-3.2# cd /tmp/temp
bash-3.2# cp /etc/VRTSagents/ha/conf/MySQL/MySQLTypes51.cf .
bash-3.2#
bash-3.2# echo 'include "MySQLTypes51.cf"'> main.cf

bash-3.2# hacf -verify .
bash-3.2# sh main.cmd
bash-3.2# haconf -dump
bash-3.2#
bash-3.2# haconf -dump
bash-3.2# hares -add res_mysql MySQL testgrp
VCS NOTICE V-16-1-10242 Resource added. Enabled attribute must be set before agent
monitors
bash-3.2# hares -modify res_mysql Critical 0
bash-3.2# hares -modify res_mysql ResLogLevel TRACE
bash-3.2# hares -modify res_mysql MySQLAdminPasswd abc123
bash-3.2# hares -modify res_mysql BaseDir /opt/mysql/mysql
bash-3.2# hares -modify res_mysql DataDir /opt/mysql/mysql/data
bash-3.2# hares -modify res_mysql MyCnf /opt/mysql/mysql/my.cnf
bash-3.2# hares -modify res_mysql HostName testzone

bash-3.2# haconf -dump
bash-3.2# hares -modify res_mysql Enabled 1
bash-3.2# haconf -dump
bash-3.2#
bash-3.2# hares -link res_mysql vcszone
bash-3.2# haconf -dump
bash-3.2#
```

ON the zone kill all mysql processes

ON NODE 1: do a hastatus -sum

hastatus -sum

hares -clear res_mysql -sys solaris10-1

```
hares -clear res_mysql -sys solaris10-2
```

You might get some errors....

do hastatus -sum

hastatus -sum

NOTE DOWN THE NODE ON WHICH “testgrp” is ONLINE

then offline it on that node

FOR INSTANCE

```
hagrp -offline testgrp -sys solaris10-1
```

also run

```
hagrp -offline testgrp -sys solaris10-2
```

hastatus -sum

hastatus -sum

haststus -sum

to watch till it is OFFLINE on all nodes

THEN ONLINE IT AGAIN ON any NODE

For instance:

```
hagrp -online testgrp -sys solaris10-1
```

AS BEFORE DO

hastatus -sum

hastatus -sum

hastatus -sum

in one putty session of node1

and in another putty session of node1 or node2 do:

```
tail -f /var/VRTSvcs/log/engine_A.log
```

WATCH WHAT HAPPENS, IN TIME, testgrp should be ONLINE

You should, see:

```
bash-3.2# tail -f /var/VRTSvcs/log/engine_A.log
```

2013/11/11 23:15:38 VCS INFO V-16-2-13716 (solaris10-1) Resource(res_mysql): Output of the completed operation (online)

131111 23:14:45 mysqld_safe Logging to '/opt/mysql/mysql/data/testzone.err'.

**131111 23:14:45 mysqld_safe Starting mysqld daemon with databases from
/opt/mysql/mysql/data**

2013/11/11 23:15:39 VCS INFO V-16-1-10298 Resource res_mysql (Owner: Unspecified, Group: testgrp) is online on solaris10-1 (VCS initiated)

2013/11/11 23:15:39 VCS NOTICE V-16-1-10447 Group testgrp is online on system solaris10-1

2013/11/12 01:34:34 VCS INFO V-16-1-53504 VCS Engine Alive message!!

2013/11/12 05:34:30 VCS INFO V-16-1-53504 VCS Engine Alive message!!

If there are issues please write to me: kartik.unix@gmail.com

NOW WE WILL INSTALL APACHE(LATEST VERSION) – WE WILL BUILD IT FROM SOURCE(THAT'S THE ONLY WAY TO GET THE LATEST EVRSION) AND THEN TEST TO SEE IF IT WORKS OUTSIDE OF THE CLUSTER AND THEN ADD IT TO THE CLUSTER.

GO TO:

<http://httpd.apache.org/>

Apache httpd 2.4.6 Released

2013-07-22

The Apache Software Foundation and the Apache HTTP Server Project are pleased to [announce](#) the release of version 2.4.6 of the Apache HTTP Server ("Apache"). This version of Apache is our latest GA release of the new generation 2.4.x branch of Apache HTTPD and represents fifteen years of innovation by the project, and is recommended over all previous releases. This version of Apache is principally a security and bug fix release.

This version of httpd is a major release of the 2.4 stable branch, and represents the best available version of Apache HTTP Server. [New features](#) include Loadable MPMs, major improvements to OCSP support, mod_lua, Dynamic Reverse Proxy configuration, Improved Authentication/Authorization, FastCGI Proxy, New Expression Parser, and a Small Object Caching API.

[Download](#) | [New Features in httpd 2.4](#) | [Complete ChangeLog for 2.4](#) | [ChangeLog for just 2.4.6](#)

LET US DOWNLOAD IT

- Unix Source: [httpd-2.4.6.tar.gz](http://httpd.apache.org/download.cgi) [[PGP](#)] [[MD5](#)] [[SHA1](#)]



SCP IT TO THE ZONE:

become root on the zone

```
bash-3.2# cd /var/tmp
bash-3.2# ls -al
./sysidtool_out: Checksum failure
./sysidtool_in: Checksum failure
./sysidtool_pid: Checksum failure
total 6885601
drwxrwxrwt  4 root    sys      10 Nov 12 11:32 .
drwxr-xr-x 44 root    sys     44 Nov 11 19:15 ..
drwxr-xr-x  2 root    root     2 Nov 11 21:39 dstreAAAqWaOrU
```

```
-rw-r--r-- 1 root root 6700153 Nov 12 11:30 httpd-2.4.6.tar.gz
drwxr-xr-x 2 mysql mysql 4 Nov 11 22:42 mysql
-rw-r--r-- 1 root root 1536622592 Nov 11 21:34 mysql-5.5.34-solaris10-x86_64.pkg
-rw-r--r-- 1 root root 1979327488 Nov 10 09:44 mysql-5.6.14-solaris11-x86_64.pkg
bash-3.2#
```

```
bash-3.2# gzip -d httpd-2.4.6.tar.gz
bash-3.2# tar xvf httpd-2.4.6.tar
```

```
bash-3.2# cd httpd-2.4.6
bash-3.2# ls -al
total 3513
drwxr-xr-x 11 501 staff 42 Jul 15 11:44 .
drwxrwxrwt 5 root sys 11 Nov 12 11:34 ..
-rw-r--r-- 1 501 staff 0 Jul 15 11:44 .deps
-rw-r--r-- 1 501 staff 10566 Jul 25 2012 .gdbinit
-rw-r--r-- 1 501 staff 13507 Mar 29 2011 ABOUT_APACHE
-rw-r--r-- 1 501 staff 64618 Jun 13 10:09 Apache-apr2.dsw
-rw-r--r-- 1 501 staff 79013 Jun 13 10:09 Apache.dsw
-rw-r--r-- 1 501 staff 2644 Aug 23 2007 BuildAll.dsp
-rw-r--r-- 1 501 staff 2724 Nov 12 2011 BuildBin.dsp
-rw-r--r-- 1 501 staff 138742 Jul 15 11:02 CHANGES
-rw-r--r-- 1 501 staff 5083 Aug 16 2012 INSTALL
-rw-r--r-- 1 501 staff 2909 Nov 14 2011 InstallBin.dsp
-rw-r--r-- 1 501 staff 4142 Dec 15 2010 LAYOUT
-rw-r--r-- 1 501 staff 25852 Jul 23 2011 LICENSE
-rw-r--r-- 1 501 staff 9617 Dec 17 2012 Makefile.in
-rw-r--r-- 1 501 staff 47214 Jun 13 10:09 Makefile.win
-rw-r--r-- 1 501 staff 550 Jan 5 2013 NOTICE
-rw-r--r-- 1 501 staff 13770 Dec 17 2012 NWGNUmakefile
-rw-r--r-- 1 501 staff 5158 Feb 20 2012 README
-rw-r--r-- 1 501 staff 5572 Apr 23 2010 README.platforms
-rw-r--r-- 1 501 staff 10184 Oct 30 2010 ROADMAP
-rw-r--r-- 1 501 staff 8183 Feb 28 2007 VERSIONING
-rw-r--r-- 1 501 staff 24108 Jan 30 2013 acinclude.m4
-rw-r--r-- 1 501 staff 2512 Dec 21 2008 ap.d
-rw-r--r-- 1 501 staff 9907 Dec 18 2009 apache_probes.d
drwxr-xr-x 6 501 staff 45 Nov 12 11:34 build
-rwxr-xr-x 1 501 staff 6800 Sep 19 2012 buildconf
-rw-r--r-- 1 501 staff 12567 Apr 17 2012 config.layout
-rwxr-xr-x 1 501 staff 982693 Jul 15 11:44 configure
-rw-r--r-- 1 501 staff 28208 Jun 26 08:01 configure.in
drwxr-xr-x 9 501 staff 10 Nov 12 11:34 docs
-rw-r--r-- 1 501 staff 403 Nov 21 2004 emacs-style
-rw-r--r-- 1 501 staff 4124 Jun 11 2008 httpd.dsp
-rw-r--r-- 1 501 staff 17615 Jul 15 11:44 httpd.spec
drwxr-xr-x 2 501 staff 46 Nov 12 11:34 include
-rw-r--r-- 1 501 staff 20602 May 28 09:26 libhttpd.dsp
drwxr-xr-x 26 501 staff 30 Nov 12 11:34 modules
```

```
drwxr-xr-x 7 501 staff 10 Nov 12 11:34 os
drwxr-xr-x 3 501 staff 48 Nov 12 11:34 server
drwxr-xr-x 2 501 staff 3 Nov 12 11:34 srclib
drwxr-xr-x 4 501 staff 51 Nov 12 11:34 support
drwxr-xr-x 2 501 staff 15 Jul 15 11:43 test
bash-3.2#
```

READ THE FILE “INSTALL” BY DOING A
more INSTALL
READ THE FILE “README” BY DOING A
more README

```
bash-3.2# export PATH=$PATH:/usr/sfw/bin:/usr/ucb/bin:/usr/ccs/bin
```

```
bash-3.2# which gcc
/usr/sfw/bin/gcc
bash-3.2# which make
/usr/ccs/bin/make
```

```
bash-3.2# ./configure --prefix=/apps/apache2
checking for chosen layout... Apache
checking for working mkdir -p... yes
checking for grep that handles long lines and -e... /usr/sfw/bin/ggrep
checking for egrep... /usr/sfw/bin/ggrep -E
checking build system type... i386-pc-solaris2.10
checking host system type... i386-pc-solaris2.10
checking target system type... i386-pc-solaris2.10
configure:
configure: Configuring Apache Portable Runtime library...
configure:
checking for APR... no
configure: error: APR not found. Please read the documentation.
Bash-3.2#
```

SO WE NEED APR

download APR FROM:
<http://apr.apache.org/>

Get Involved

- [Subversion](#)
- [Mailing Lists](#)
- [Snapshots](#)
- [Build on Win32](#)
- [Build on Unix](#)

Download!

- [from a mirror](#)

APR Docs

- [Version 1.4](#)
- [Version 0.9](#)
- [Trunk \(dev\)](#)

APR-util Docs

- [Version 1.5](#)
- [Version 0.9](#)
- [Trunk \(dev\)](#)

APR-iconv Docs

- [Version 1.2](#)
- [Version 0.9](#)
- [Trunk \(dev\)](#)

Guidelines

- [Project Guidelines](#)
- [Contributing](#)
- [Version Numbers](#)

Miscellaneous

- [License](#)
- [Security Reports](#)
- [Projects using APR](#)
- [Sponsors](#)
- [Sponsorship](#)

Downloading the Apache Portable Runtime

Use the links below to download the Apache Portable Runtime from one of our mirrors. You **must verify the integrity** of the downloaded files using signatures downloaded from our main distribution directory.

Only current recommended releases are available on the main distribution site and its mirrors. Older releases are available from the [archive download site](#).

Mirror

The currently selected mirror is <http://www.poolsaboveground.com/apache/>. If you encounter a problem with this mirror, please select another mirror. If all mirrors are failing, there are *backup* mirrors (at the end of the mirrors list) that should be available.

Other mirrors:

You may also consult the [complete list of mirrors](#).

APR 1.4.8 is the best available version

APR is the base portability library.

- Unix Source: [apr-1.4.8.tar.gz](#) [PGP] [MD5]
- Unix Source: [apr-1.4.8.tar.bz2](#) [PGP] [MD5]
- Win32 Source: [apr-1.4.8-win32-src.zip](#) [PGP] [MD5] [SHA1]
- [Other files](#)

APR-util 1.5.2 is the best available version

APR-util provides a number of helpful abstractions on top of APR.

- Unix Source: [apr-util-1.5.2.tar.gz](#) [PGP] [MD5]
- Unix Source: [apr-util-1.5.2.tar.bz2](#) [PGP] [MD5]
- Windows Source: [apr-util-1.5.2-win32-src.zip](#) [PGP] [MD5]
- [Other files](#)

APR iconv 1.2.1 is the best available version

APR-iconv provides a portable iconv() implementation built on top of APR. It is generally of interest only where no system provided iconv() is available (either in libiconv, or libc as applicable). An example is the Windows platform, where APR-iconv is required to enable the APR-util library's apr_xlate feature.

- Unix Source: [apr-iconv-1.2.1.tar.gz](#) [PGP] [MD5]
- Unix Source: [apr-iconv-1.2.1.tar.bz2](#) [PGP] [MD5]
- Windows Source: [apr-iconv-1.2.1-win32-src-r2.zip](#) [PGP] [MD5]
- [Other files](#)

APR 0.9.20 is also available

APR is the base portability library.

- Unix Source: [apr-0.9.20.tar.gz](#) [PGP] [MD5]
- Unix Source: [apr-0.9.20.tar.bz2](#) [PGP] [MD5]
- Windows Source: [apr-0.9.20-win32-src.zip](#) [PGP] [MD5]

The 0.9.20 release provides a security fix to previously released versions, and all users are strongly cautioned to update.

APR-util 0.9.19 is also available

APR-util provides a number of helpful abstractions on top of APR. The 0.9.19 release provides a number of security fixes to previous released versions, and all users are strongly cautioned to update.

- Unix Source: [apr-util-0.9.19.tar.gz](#) [PGP] [MD5]
- Unix Source: [apr-util-0.9.19.tar.bz2](#) [PGP] [MD5]
- Windows Source: [apr-util-0.9.19-win32-src.zip](#) [PGP] [MD5]

APR iconv 0.9.7 is also available

APR-iconv provides a portable iconv() implementation built on top of APR. It is generally of interest only where no system provided iconv() is available (either in libiconv, or libc as applicable). An example is the Windows platform, where APR-iconv is required to enable the APR-util library's apr_xlate feature.

- Unix Source: [apr-iconv-0.9.7.tar.gz](#) [PGP] [MD5]
- Unix Source: [apr-iconv-0.9.7.tar.bz2](#) [PGP] [MD5]
- Windows Source: [apr-iconv-0.9.7-win32-src-r2.zip](#) [PGP] [MD5]

Verify the integrity of the files

It is essential that you verify the integrity of the downloaded files using the PGP or MD5 signatures. Please read [Verifying Apache HTTP Server Releases](#) for more information on why you should verify our releases. (The same rationale applies to APR as to HTTP Server.)

The PGP signatures can be verified using PGP or GPG. First download the **KEYS** as well as the **asc** signature file for the particular distribution. Make sure you get these files from the [main distribution directory](#), rather than from a mirror. Then verify the signatures using

```
% pgp --a KEYS
% pgpv apr-1.0.1.tar.gz.asc
or
% pgp -ka KEYS
% pgpv apr-1.0.1.tar.gz.asc
or
% gpg --import KEYS
% gpg --verify apr-1.0.1.tar.gz.asc
```

Alternatively, you can verify the MD5 and/or SHA1 signature on the files. An MD5 hash consists of a 32 character string (example: `d41d8cd98f00b204e980098ecf8427e`), and a SHA1 hash consists of a 40 character string (example:

`da39a3ee5e6b4b0d3255bfef95601890af80709`). To verify the hash on a file, generate a hash string of your own on the file, and compare the hash string you get with the hash string published inside the signature files. A unix program called md5 or md5sum is included in many unix distributions. It is also available as part of [GNU Textutils](#). Windows users can get binary md5 programs from [here](#), [here](#), or [here](#).

WE WILL DOWNLOAD BOTH APR AND APR-UTIL

APR 1.4.8 is the best available version

APR is the base portability library.

- Unix Source: [apr-1.4.8.tar.gz](#) [PGP] [MD5]
- Unix Source: [apr-1.4.8.tar.bz2](#) [PGP] [MD5]
- Win32 Source: [apr-1.4.8-win32-src.zip](#) [PGP] [MD5] [SHA1]
- [Other files](#)

APR-util 1.5.2 is the best available version

APR-util provides a number of helpful abstractions on top of APR.

- Unix Source: [apr-util-1.5.2.tar.gz](#) [PGP] [MD5]
- Unix Source: [apr-util-1.5.2.tar.bz2](#) [PGP] [MD5]
- Windows Source: [apr-util-1.5.2-win32-src.zip](#) [PGP] [MD5]
- [Other files](#)

SCP THEM OVER TO THE ZONE

```
cd /var/tmp
bash-3.2# ls -al
./sysidtool_out: Checksum failure
./sysidtool_in: Checksum failure
./sysidtool_pid: Checksum failure
total 6941204
drwxrwxrwt 5 root sys 13 Nov 12 11:47 .
drwxr-xr-x 44 root sys 44 Nov 11 19:15 ..
-rw-r--r-- 1 root root 979397 Nov 12 11:47 apr-1.4.8.tar.gz
-rw-r--r-- 1 root root 867573 Nov 12 11:47 apr-util-1.5.2.tar.gz
drwxr-xr-x 2 root root 2 Nov 11 21:39 dstreAAAqWaOrU
drwxr-xr-x 11 501 staff 44 Nov 12 11:43 httpd-2.4.6
-rw-r--r-- 1 root root 33291776 Nov 12 11:30 httpd-2.4.6.tar
drwxr-xr-x 2 mysql mysql 4 Nov 11 22:42 mysql
-rw-r--r-- 1 root root 1536622592 Nov 11 21:34 mysql-5.5.34-solaris10-x86_64.pkg
-rw-r--r-- 1 root root 1979327488 Nov 10 09:44 mysql-5.6.14-solaris11-x86_64.pkg
b
```

```
bash-3.2# gzip -d apr-1.4.8.tar.gz
bash-3.2# tar xvf apr-1.4.8.tar
```

```
bash-3.2# cd apr-1.4.8
bash-3.2#
./configure
make
make install
```

NOTE LOCATION OF SAVED APR IT IS:
/usr/local/apr/bin/apr-1-config

NOW WE WILL BUILD(COMPILE) APR-UTIL

```
bash-3.2# cd /var/tmp
bash-3.2# ls -al
./sysidtool_out: Checksum failure
./sysidtool_in: Checksum failure
./sysidtool_pid: Checksum failure
total 6949663
drwxrwxrwt 6 root  sys  14 Nov 12 11:51 .
drwxr-xr-x 44 root  sys  44 Nov 11 19:15 ..
drwxr-xr-x 26 1000  1000  64 Nov 12 11:51 apr-1.4.8
-rw-r--r-- 1 root  root  5335040 Nov 12 11:47 apr-1.4.8.tar
-rw-r--r-- 1 root  root  867573 Nov 12 11:47 apr-util-1.5.2.tar.gz
drwxr-xr-x 2 root  root   2 Nov 11 21:39 dstreAAAqWaOrU
drwxr-xr-x 11 501  staff  44 Nov 12 11:43 httpd-2.4.6
-rw-r--r-- 1 root  root  33291776 Nov 12 11:30 httpd-2.4.6.tar
drwxr-xr-x 2 mysql  mysql  4 Nov 11 22:42 mysql
-rw-r--r-- 1 root  root  1536622592 Nov 11 21:34 mysql-5.5.34-solaris10-x86_64.pkg
-rw-r--r-- 1 root  root  1979327488 Nov 10 09:44 mysql-5.6.14-solaris11-x86_64.pkg
bash-3.2# gzip -d apr-util-1.5.2.tar.gz
bash-3.2# tar xvf apr-util-1.5.2.tar
```

```
bash-3.2# cd apr-util-1.5.2
bash-3.2# ./configure --with-apr=/usr/local/apr/bin/apr-1-config
make
make installation
NOTE LOCATION OF APR-UTIL IT IS:
/usr/local/apr/bin/apu-1-config
```

NOW WE CAN GO BACK TO BUILDING APACHE

```
bash-3.2# cd /var/tmp/httpd-2.4.6
bash-3.2#
```

```
bash-3.2# ./configure --prefix=/apps/apache2 --with-included-apr=/usr/local/apr/bin/apr-1-config
checking for chosen layout... Apache
checking for working mkdir -p... yes
checking for grep that handles long lines and -e... /usr/sfw/bin/ggrep
checking for egrep... /usr/sfw/bin/ggrep -E
checking build system type... i386-pc-solaris2.10
checking host system type... i386-pc-solaris2.10
checking target system type... i386-pc-solaris2.10
configure:
configure: Configuring Apache Portable Runtime library...
configure:
checking for APR... yes
  setting CC to "gcc"
  setting CPP to "gcc -E"
```

```
setting CFLAGS to " -g -O2"
setting CPPFLAGS to " -DSOLARIS2=10 -D_POSIX_PTHREAD_SEMANTICS -D_REENTRANT
-D_LARGEFILE64_SOURCE"
setting LDFLAGS to " "
configure:
configure: Configuring Apache Portable Runtime Utility library...
configure:
checking for APR-util... yes
checking for gcc... gcc
checking whether the C compiler works... yes
checking for C compiler default output file name... a.out
checking for suffix of executables...
checking whether we are cross compiling... no
checking for suffix of object files... o
checking whether we are using the GNU C compiler... yes
checking whether gcc accepts -g... yes
checking for gcc option to accept ISO C89... none needed
checking how to run the C preprocessor... gcc -E
checking for gcc option to accept ISO C99... -std=gnu99
checking for pcre-config... false
configure: error: pcre-config for libpcre not found. PCRE is required and available from http://pcre.org/
bash-3.2#
```

SO WE NEED PCRE

LET US DOWNLOAD IT:

GO TO:

<http://pcre.org/>



Index of /pub/software/programming/pcre/

Name	Size	Date Modified
[parent directory]		
Contrib/		5/14/13 12:00:00 AM
Public-Key	2.1 kB	4/27/07 12:00:00 AM
Testing/		8/28/13 9:25:00 AM
pcre-8.21.tar.bz2	1.1 MB	12/12/11 12:00:00 AM
pcre-8.21.tar.bz2.sig	287 B	12/12/11 12:00:00 AM
pcre-8.21.tar.gz	1.5 MB	12/12/11 12:00:00 AM

SCP IT OVER TO THE ZONE IN /var/tmp

```
bash-3.2# cd /var/tmp
bash-3.2# ls -al
./sysidtool_out: Checksum failure
./sysidtool_in: Checksum failure
```

```
./sysidtool_pid: Checksum failure
total 6957611
drwxrwxrwt 7 root  sys  16 Nov 12 12:01 .
drwxr-xr-x 44 root  sys  44 Nov 11 19:15 ..
drwxr-xr-x 26 1000  1000  64 Nov 12 11:51 apr-1.4.8
-rw-r--r-- 1 root  root  5335040 Nov 12 11:47 apr-1.4.8.tar
drwxr-xr-x 20 1000  1000  59 Nov 12 11:55 apr-util-1.5.2
-rw-r--r-- 1 root  root  4894720 Nov 12 11:47 apr-util-1.5.2.tar
drwxr-xr-x 2 root  root  2 Nov 11 21:39 dstreAAqWaOrU
drwxr-xr-x 11 501  staff  44 Nov 12 11:59 httpd-2.4.6
-rw-r--r-- 1 root  root  33291776 Nov 12 11:30 httpd-2.4.6.tar
drwxr-xr-x 2 mysql  mysql  4 Nov 11 22:42 mysql
-rw-r--r-- 1 root  root  1536622592 Nov 11 21:34 mysql-5.5.34-solaris10-x86_64.pkg
-rw-r--r-- 1 root  root  1979327488 Nov 10 09:44 mysql-5.6.14-solaris11-x86_64.pkg
-rw-r--r-- 1 root  root  1556329 Nov 12 12:01 pcre-8.21.tar.gz
bash-3.2# gzip -d pcre-8.21.tar.gz
bash-3.2# tar xvf pcre-8.21.tar
```

```
bash-3.2# cd pcre-8.21
bash-3.2# ./configure
make
make install
```

```
bash-3.2# find / -name pcre-config -print
find: stat() error /etc/nodename: Checksum failure
find: stat() error /etc/inet/hosts: Checksum failure
/usr/local/bin/pcre-config
^C
bash-3.2#
```

LET US ADD /usr/local/bin TO THE path AND TRY BUILDING APACHE AGAIN

```
bash-3.2# export PATH=$PATH:/usr/local/bin

bash-3.2# cd /var/tmp/httpd-2.4.6
bash-3.2# ./configure --prefix=/apps/apache2 --with-included-apr=/usr/local/apr/bin/apr-1-config

make
make install
```

LET US TRY STARTING APACHE OUTSIDE OF CLUSTER CONTROL, JUST TO CHECK IF IT WORKS

```
bash-3.2# cd /apps/apache2
bash-3.2# ls -al
total 60
drwxr-xr-x 14 root  root  14 Nov 12 12:14 .
drwxr-xr-x  3 root  root  3 Nov 12 12:14 ..
```

```

drwxr-xr-x  2 root  root   18 Nov 12 12:14 bin
drwxr-xr-x  2 root  root   11 Nov 12 12:14 build
drwxr-xr-x  2 root  root   6 Nov 12 12:14 cgi-bin
drwxr-xr-x  4 root  root   7 Nov 12 12:14 conf
drwxr-xr-x  3 root  root  22 Nov 12 12:14 error
drwxr-xr-x  2 root  root   3 Nov 12 11:34 htdocs
drwxr-xr-x  3 root  root  179 Nov 12 12:14 icons
drwxr-xr-x  2 root  root   63 Nov 12 12:14 include
drwxr-xr-x  2 root  root   2 Nov 12 12:14 logs
drwxr-xr-x  4 root  root   4 Nov 12 12:14 man
drwxr-xr-x 14 root  root  202 Jul 15 11:44 manual
drwxr-xr-x  2 root  root   86 Nov 12 12:14 modules
bash-3.2# cd bin
bash-3.2# ls -al
total 3383
drwxr-xr-x  2 root  root   18 Nov 12 12:14 .
drwxr-xr-x 14 root  root   14 Nov 12 12:14 ..
-rwxr-xr-x  1 root  root  101564 Nov 12 12:14 ab
-rwxr-xr-x  1 root  root  3422 Nov 12 12:12 apachectl
-rwxr-xr-x  1 root  root  23520 Nov 12 12:12 apxs
-rwxr-xr-x  1 root  root  16812 Nov 12 12:14 checkgid
-rwxr-xr-x  1 root  root  8925 Nov 12 12:12 dbmmanage
-rw-r--r--  1 root  root  1063 Nov 12 12:12 envvars
-rw-r--r--  1 root  root  1063 Nov 12 12:12 envvars-std
-rwxr-xr-x  1 root  root  22560 Nov 12 12:14 fcgidstarter
-rwxr-xr-x  1 root  root  53096 Nov 12 12:14 htcachecl
-rwxr-xr-x  1 root  root  35532 Nov 12 12:14 htdbm
-rwxr-xr-x  1 root  root  22560 Nov 12 12:14 htdigest
-rwxr-xr-x  1 root  root  34608 Nov 12 12:14 htpasswd
-rwxr-xr-x  1 root  root  1223208 Nov 12 12:14 httpd
-rwxr-xr-x  1 root  root  22240 Nov 12 12:14 httx2dbm
-rwxr-xr-x  1 root  root  23804 Nov 12 12:14 logresolve
-rwxr-xr-x  1 root  root  33076 Nov 12 12:14 rotatelogs
bash-3.2# ./apachectl start

```

H00558: httpd: Could not reliably determine the server's fully qualified domain name, using 10.0.0.45.
Set the 'ServerName' directive globally to suppress this message
bash-3.2#

GO TO [HTTP://10.0.0.45](http://10.0.0.45) (YOUR IP ADDRESS WILL BE DIFFERENT)

It works!

SO OUR APACHE CONFIGURATION WORKS OUTSIDE OF CLUSTER CONTROL. NOW WE WILL STOP THE APACHE PROCESS(`httpd`) AND PUT APACHE UNDER CLUSTER CONTROL

```
bash-3.2# ./apachectl stop
```

GO TO ANY NODE:

```
bash-3.2# hares -clear res_mysql -sys solaris10-1
bash-3.2# hares -online res_mysql -sys solaris10-1
bash-3.2# hares -add res_apache Apache testgrp
VCS NOTICE V-16-1-10242 Resource added. Enabled attribute must be set before agent monitors
bash-3.2# hares -modify res_apache ResLogLevel TRACE
bash-3.2# hares -modify res_apache httpdDir /apps/apache2/bin
bash-3.2# hares -modify res_apache PidFile /apps/apache2/logs/httpd.pid
bash-3.2# hares -modify res_apache HostName testzone
bash-3.2# hares -modify res_apache User root
bash-3.2# hares -modify res_apache ConfigFile /apps/apache2/conf/httpd.conf
bash-3.2# haconf -dump
bash-3.2# hares -modify res_apache Enabled 1
bash-3.2# haconf -dump
bash-3.2#
bash-3.2# hares -link res_apache res_mysql
```

```
bash-3.2# haconf -dump
```

```
bash-3.2# hastatus -sum
```

```
-- SYSTEM STATE
```

	System	State	Frozen
--	--------	-------	--------

A	solaris10-1	RUNNING	0
A	solaris10-2	RUNNING	0

```
-- GROUP STATE
```

	Group	System	Probed	AutoDisabled	State
--	-------	--------	--------	--------------	-------

B	ClusterService	solaris10-1	Y	N	ONLINE
B	ClusterService	solaris10-2	Y	N	OFFLINE
B	testgrp	solaris10-1	N	N	ONLINE
B	testgrp	solaris10-2	Y	N	OFFLINE

```
-- RESOURCES NOT PROBED
```

	Group	Type	Resource	System
--	-------	------	----------	--------

E	testgrp	Apache	res_apache	solaris10-1
---	---------	--------	------------	-------------

```
bash-3.2#
```

```
bash-3.2# hares -probe res_apache -sys solaris10-1
```

STILL SHOWS UP AS NOT PROBED.....

SO...

```
bash-3.2# hares -online res_apache -sys solaris10-1
```

VCS WARNING V-16-1-10283 Resource has not been probed on system solaris10-1

```
bash-3.2# hagrp -offline testgrp -sys solaris10-1
```

```
bash-3.2#
```

```
bash-3.2# hagrp -switch testgrp -to solaris10-2
```

```
bash-3.2#
```

AND IF WE DO A tail -f (see output as it's being written to log file), we see a most wonderful result:

```
bash-3.2# tail -f /var/VRTSvcs/log/engine_A.log
```

```
=====
```

```
131114 05:19:20 mysqld_safe Logging to '/opt/mysql/mysql/data/testzone.err'.
```

```
131114 05:19:20 mysqld_safe Starting mysqld daemon with databases from /opt/mysql/mysql/data
```

```
=====
```

```
2013/11/14 05:19:36 VCS INFO V-16-1-10298 Resource res_mysql (Owner: Unspecified, Group: testgrp) is online on solaris10-2 (VCS initiated)
```

2013/11/14 05:19:36 VCS NOTICE V-16-1-10301 Initiating Online of Resource res_apache (Owner: Unspecified, Group: testgrp) on System solaris10-2

2013/11/14 05:19:38 VCS NOTICE V-16-10061-20494 (solaris10-2)

Apache:res_apache:online:<Apache::Start> Command exit code [0]. Command output [AH00558:
httpd: Could not reliably determine the server's fully qualified domain name, using 192.168.0.76. Set
the 'ServerName' directive globally to suppress this message]

2013/11/14 05:19:51 VCS INFO V-16-1-10298 Resource res_apache (Owner: Unspecified, Group:
testgrp) is online on solaris10-2 (VCS initiated)

2013/11/14 05:19:51 VCS NOTICE V-16-1-10447 Group testgrp is online on system solaris10-2