

Author : Sankha Subhra Som
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Title : Setting up a cvs server

1 To set up a CVS server

1) Create a user and group called cvs
adduser cvs

2) Create the repository at /usr/local/cvsroot Login as root
#cvs -d /usr/local/cvsroot init

3) Change owner and group of cvsroot
#chown -R cvs.cvs /usr/local/cvsroot

4) Create tcp service by adding this line to /etc/services cvspserver 2401/tcp
#CVS PServer
(May already be present)

5) If you are using xinetd then
Change directory to /etc/xinetd.d/
Create a file called cvspserver
This should contain the following lines
service cvspserver

```
port = 2401  
socket_type = stream
```

```
protocol    = tcp  
wait       = no  
user       = root  
passenv    = PATH  
           #This should contain the path to the cvs executable  
server     = /usr/bin/cvs
```

```
server_args = -f -allow-root=/usr/local/cvsroot pserver
```

6) If you are using inetd then
Create inetd entry for service by editing /etc/inetd.conf - add following lines:

```
#
# CVS PServer
#
cvspserver stream tcp nowait cvs /usr/bin/cvs cvs -allow-root=/usr/local/cvsroot
pserver
```

7) Restart xinetd or inetd

8) Use the following script for creating encrypted passwords `#!/usr/bin/perl`
`srand (time());`
`my $randletter = "(int (rand (26)) + (int (rand (1) + .5) % 2 ? 65 : 97))";` my
`$salt = sprintf ("%c%c", eval $randletter, eval $randletter);` my `$plaintext`
`= shift;`
`my $crypttext = crypt ($plaintext, $salt);` print "`$crypttextq`";

Give the plain text password as argument to the script, the output is the encrypted password.

9) Create a text file in `/usr/local/cvsroot/CVSROOT` called `passwd` and enter the users as shown below (format is: `userid:encrypted-password:cvs`): (login as cvs first)
`username1:x$5itFdsw123:cvs`
`username2:3fgRH4p3443:cvs`

10) Restrict the permissions on the 'passwd' file as read only `chmod 400 passwd`

Connecting to the cvsserver

1) Set the default repository in the environment (will save entering it on every cvs command): `export CVSROOT=:pserver:username1@your_server_name:/usr/local/cvsroot`

(substitute real values for `username1`, `your_server_name` and repository path if needed)

2) Test the basic login:
`cvs login`

3) Enter the `username1`'s password. There should not be any error messages.