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Linux setup a Concurrent Versioning System (CVS) howto

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Q. I am planning to use Concurrent Versioning System. I am using both Red Hat and Fedora Linux. How do I setup a CVS server?

A. Concurrent Versioning System (CVS) a widely used version control system for software development or data archiving solutions.

From the [wiki](#) ^[1] page, "CVS keeps track of all work and all changes in a set of files, typically the implementation of a software project, and allows several (potentially widely separated) developers to collaborate".

CVS Configuration - Install CVS

Use rpm or up2date or yum command to install cvs:

```
# rpm -ivh cvs*
```

OR

```
# up2date cvs
```

OR

```
# yum install cvs
```

Create a CVS user

```
# useradd cvs
# passwd cvs
```

Above command will create a user cvs and group cvs with /home/cvs home directory.

Configure CVS

Open /etc/profile and append following line:

```
# vi /etc/profile
```

Append following line:

```
export CVSROOT=/home/cvs
```

Save the file and exit to shell prompt.

Make sure your /etc/xinetd.d/cvs looks as follows:

```
# less /etc/xinetd.d/cvs
```

Output:

```
service cvspserver
{
    disable            = no
    socket_type        = stream
    wait               = no
    user               = cvs
    group              = cvs
    log_type           = FILE /var/log/cvspserver
    protocol           = tcp
    env                = '$HOME=/home/cvsroot'
    bind               = 192.168.1.100
    log_on_failure     += USERID
    port               = 2401
    server              = /usr/bin/cvs
    server_args        = -f --allow-root=/home/cvsroot pserver
```

```
}
```

Note: Replace **192.168.1.100** with your actual server IP address.

Restart xinetd:

```
# service xinetd restart
```

Add users to this group (see this [howto](#) for more info)

```
# adduser username -g cvs
# passwd username
```

Client configuration

Finally user can connect to this CVS server using following syntax:

```
$ export CVSROOT=:pserver:vivek@192.168.1.100:/home/cvs
```

\$ cvs loginWhere,

- vivek - username
- 192.168.1.100 - CVS server IP

See also:

- CVS [web site](#) ^[2] and [documentation](#) ^[3]

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URLs in this post:

[1] wiki: http://en.wikipedia.org/wiki/Concurrent_Versions_System

[2] web site: <http://www.nongnu.org/cvs/>

[3] documentation: <http://www.nongnu.org/cvs/#TOCdocumentation>