

CVS exercises
intERLab / AIT March 2008

1. Install cvs

```
# apt-get install cvs
```

2. Init a new CVS ROOT:

NOTE Do this exercise as the normal user, NOT ROOT!!!

- First, set the environment variable "CVSROOT" to the path
- Where your CVS repository will be created:

```
> CVSROOT=/home/MYHOMEDIRECTORY/cvs
> export CVSROOT
```

- Now create the directory

```
> mkdir $CVSROOT
> cvs init
```

- Check that it was created correctly!

```
> ls -l /home/MYHOMEDIRECTORY/cvs
```

- You should see a directory called "CVSROOT"
- Look at the contents of the directory.

3. Let's create a project in CVS for the configuration files on your system and import these files into the CVS!

```
> mkdir /home/MYHOMEDIRECTORY/temp
> cp /etc/smokeping/config /home/mysername/temp/config.smokeping
```

- Now we need to import these files into CVS:
- Let's make a new project called "configs"

```
> cd /home/MYHOMEDIRECTORY/temp
> cvs import configs before_cvs start
```

(Note: the "before_cvs" and "start" are just names to say that we are importing from "before we used CVS, and this is the start")

- When you see this:

```
CVS: -----
CVS: Enter Log. Lines beginning with `CVS:' are removed automatically
CVS:
CVS: -----
```

... just enter a message saying what you did, for example:

This is a first import of our config files

... Then save the file + quit.

You should see something like this:

```
File /tmp/cvsh3EOVw saved
N configs/config.smokeping
^
```

(new file)

No conflicts created by this import

3b. Look at the contents of /home/MYHOMEDIRECTORY/cvs/configs

```
> ls -l /home/MYHOMEDIRECTORY/cvs/configs
total 36
-r--r--r--  1 regnauld  wheel   799 Aug 31 17:26 config,v
```

4. Now we can remove our temp directory, and check out the configs/ project from CVS!

```
> cd /home/MYHOMEDIRECTORY
> rm -rf temp

- Let's now check out from cvs :

> cvs -d /home/MYHOMEDIRECTORY/cvs co configs

- You should see something like:
```

```
cvs checkout: Updating configs
U configs/config.smokeping
```

```
> ls -l /home/MYHOMEDIRECTORY/configs/

- Notice the CVS directory in /home/MYHOMEDIRECTORY/configs/

*NOTE* remember, never modify the CVS/ directory by hand!!
It is only for experienced CVS users...
```

5. Let's modify the files, add another one, and check things in again:

```
> cd /home/mysername/configs
> vi config.smokeping

... add something to it, for example a new configuration for
a new host, then save and quit.

- Add the APT sources.list file to the directory:

> cp /etc/apt/sources.list .

- Tell cvs to show us the status:

> cvs status

- Add it to the CVS:

> cvs add sources.list

- You should see this:
```

```
cvs add: scheduling file `sources.list' for addition
cvs add: use `cvs commit' to add this file permanently
```

```
- You are now ready to commit!

> cvs commit

- If all goes well, you should have this in your editor window:
```

```
CVS: -----
CVS: Enter Log. Lines beginning with `CVS:' are removed automatically
CVS:
CVS: Committing in .
CVS:
CVS: Modified Files:
CVS:   config.smokeping
CVS: Added Files:
CVS:   sources.list
CVS: -----
```

... add a message:

Importing APT sources.list, and modifying smokeping config

... then save + quit

You should see this:

```
File /tmp/cvs3CyXND saved
/home/inst/cvs/configs/config.smokeping,v <-- config.smokeping
new revision: 1.2; previous revision: 1.1
/home/inst/cvs/configs/sources.list,v <-- sources.list
initial revision: 1.1
```

6. Let's see the history for the config.smokeping file:

```
> cvs log config.smokeping
```

... notice the output

- Finally, let's try and see the difference between two versions of the config.smokeping file:

```
> cvs diff -r 1.1 -r 1.2 config.smokeping
```

- What do you notice ?