

CVW

Collaborative Virtual Workspace CVW Server 3.0 to 3.2 Upgrade Guide

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Installation Contents

The installation software includes the following:

- Client
 - cvw-tk-client-3.2.*-base.tar.Z
 - cvw-tk-client-3.2.*-sparc-Solaris2.tar.Z
 - cvw-tk-client-3.2.*-x86-Linux2.tar.Z
 - CVW32Installer.exe
 - docs-bin.tar.Z
- MOO Server
 - cvw-moo-server-3.2.*-sparc-Solaris2.tar.Z
 - cvw-moo-server-3.2.*-x86-Linux2.tar.Z
 - updater-3.0-3.2.tar.Z
 - 31to32_patch.txt
- Document Server
 - cvw-doc-server-3.2.*-sparc-Solaris2.tar.Z
 - cvw-doc-server-3.2.*-x86-Linux2.tar.Z

Prerequisites

Prior to installing the CVW software, verify that the following have been completed:

- Be sure that the target CVW server system has sufficient virtual memory. At least 128 MB of swap space should be available; 300 MB is recommended.

Example: swap -s

total: 100928k bytes allocated + 28312k reserved = 129240k used, 257784k available

- Be sure that you have access to an HTTP server with approximately 25 MB of disk space available. The Unix CVW client can optionally access user image icons from an HTTP server (rather than replicating all images into the client directory). The PC CVW client can optionally provide the installation software to users via a web page. The PC CVW client *requires* an HTTP server for providing user images icons to the PC CVW client. Also, the CVW on-line documentation is in HTML (Hypertext Markup Language) format and requires an HTTP server to make it available to the users.
- Group audio and video conferencing require multicast routing enabled on the participating systems if the participating systems do not reside on the same subnet. If the systems do not reside on the same subnet, the Sun-supplied multicast tunneling patch, mrouterd, must be installed to enable multicast traffic to span subnets. You can access the mrouterd software from <ftp://playground.sun.com/pub/multicast/>.
- The CVW Server no longer operates with a license key file. You will need to retain your existing 3.0 server license key file in order to upgrade, however once you are running the 3.2 server this key is no longer required.

Upgrading CVW

Prior to Upgrading the CVW Server

If you are upgrading from a version of CVW below 3.0, first upgrade to version 3.0; see the document entitled “CVW 2.8 to 3.0 Upgrade Guide” .

If you choose to upgrade the CVW Server, it is strongly recommended that you also upgrade all of your CVW clients to ensure compatibility in the client and server operation.

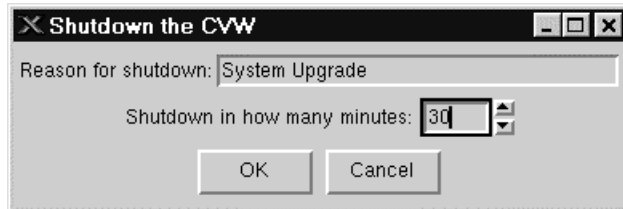
Prior to upgrading the server, verify that you have sufficient disk space available.

The upgrade procedures assume that the CVW Server was previously installed into recommended location of **/opt/CVWserver** or that a symbolic link was made from the recommended location to the actual location.

The CVW software is downloaded as tar files from the CVW web site. This documentation assumes you have these files available somewhere in a directory.

Shutting Down the CVW Server

Log in to the CVW Server as Admin and shut down the CVW Server by selecting the “Shutdown” option from the Admin Menu. Enter a user message in the “Reason for shutdown” field, and the number of minutes until shutdown in the “Shutdown in how many minutes field”.



A confirmation message will be displayed, with instruction on how to abort the shutdown, if it becomes necessary to do so.

Users currently connected to CVW and any user that connects will receive shutdown status messages in their client.

Example: * The server will be shut down by Admin (#2) in 30 minutes: System Upgrade. *****

The Shutdown may be aborted by the Admin at any time by entering the following command into the text input window of the CVW client:

@abort-shutdown [<text>]

Example: @abort-shutdown Server maintenance has been postponed.

Shutting Down the CVW Document Server

Shut down the CVW Document Server by executing the following command .

```
/etc/rc3.d/S99cvwds stop
```

Backing up the CVW Server Directory

Move the previous CVW Server directory to another directory. You may also want to create a tar file of this directory for archive purposes. Do not delete this directory as it will be accessed during the upgrade process. Create a new CVW Server directory for the upgrade.

```
cd /opt  
mv CVWserver CVWserver.old  
mkdir CVWserver
```

Upgrading the CVW Document Server to Version 3.2

Make sure your CVW Document Server has been shut down prior to upgrading. These instructions assume that a copy of the previous CVW Server directory was made as `/opt/CVWserver.old` and a new CVW Server directory has been established as `/opt/CVWserver` for this upgrade.

The following procedures will upgrade version 1.4 or version 3.1 of the Document Server to version 3.2.

Updating the CVW Document Server to Version 3.2

First unpack the new document server software into the `/opt/CVWserver` directory.

```
cd /opt/CVWserver
uncompress - < cvw-doc-server-3.2.*.tar.Z | tar xvf -
```

(Substitute the correct path to the document server tar file appropriate for your OS.) Next copy the files (documents, index.db, and transtable.db) from your previous document repository into the new one.

```
cp -r /opt/CVWserver.old/doc-store /opt/CVWserver/.
```

Verify that the path to your doc-store directory has not changed. If you have changed the directory path, edit the `doc-store/index.db` file and replace all file paths (typically `/opt/CVWserver/doc-store/`) with the new directory path.

Modifying the `cvwds.boot` (S99cvwds) Startup/Shutdown Script

Change to the CVW Server directory and edit the `cvwds.boot` script so the settings below reflect your Document Server settings. This script is used to start and stop the CVW Document Server (e.g., `./cvwds.boot start`, `./cvwds.boot stop`).

```
cvwdsuser = cvw           CVW Document Server user account name
serverdir = /opt/CVWserver CVW Server software directory
```

It is recommended that you accept the default values.

Move the existing `S99cvwds` script in `/etc/rc3.d` from `S99cvwds` to `backup.S99cvwds`.

```
cd /etc/rc3.d
mv S99cvwds backup.S99cvwds
```

Copy the updated `cvwds.boot` script from the CVW Server directory to `/etc/init.d/cvwds`, then link it to `/etc/rc3.d/S99cvwds`:

```
cp /opt/CVWserver/cvwds.boot /etc/init.d/cvwds
ln /etc/init.d/cvwds /etc/rc3.d/S99cvwds
```

Modifying the docserver.cfg Configuration File

Change to the CVW Server directory and edit the **docserver.cfg** file so the settings below reflect your Document Server settings.

port	=	8889	CVW Document Server port
docstore	=	/opt/CVWserver/doc-store	Document store directory
logfile	=	docserver.log	Document Server log file

Some of these settings were previously in the S99cvwds script.

Upgrading the CVW Server to 3.2

Make sure your CVW Server has been shut down prior to upgrading. These instructions assume that a copy of the previous CVW Server directory was made as `/opt/CVWserver.old` and a new CVW Server directory has been established as `/opt/CVWserver` for this upgrade.

Updating the CVW database file from Version 3.0 to 3.2

These instructions are for upgrading a version 3.0 CVW database to a version 3.2 CVW database. If you are upgrading from a version 3.1 CVW database, this section does not apply; to upgrade from version 3.1 to 3.2, see the next section. If you are upgrading CVW from a version prior to 3.0, please first upgrade to version 3.0.

Change to the `CVWserver` directory and extract the new CVW server as well as the 3.0 to 3.2 CVW Server upgrade software into this directory using the following procedure:

```
cd /opt/CVWserver
uncompress - < cvw-moo-server-3.2.*.tar.Z | tar xvf -
uncompress - < updater-3.0-3.2.tar.Z | tar xvf -
```

(Substitute the correct path for the tar files.)

Copy the old CVW database and CVW license key file from the old CVW Server directory to the `updater` directory:

```
cd updater-3.0-3.2
cp /opt/CVWserver.old/CVW.db.new .
cp /opt/CVWserver.old/cvw.license .
```

Prior to running the CVW Updater, ensure that `xterm` is in your path.

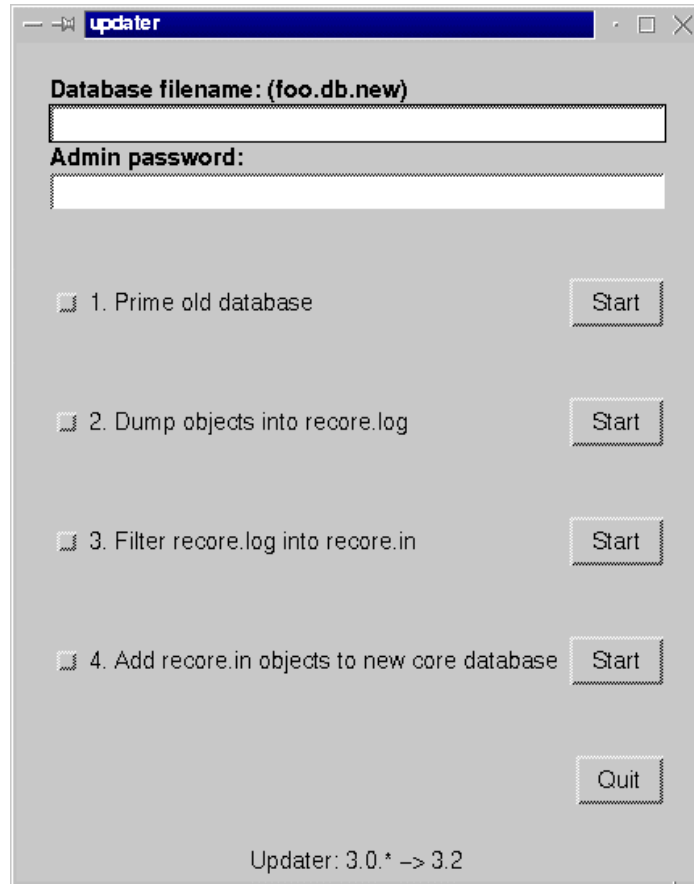
```
PATH="$PATH:/usr/openwin/bin"      if you use a Bourne shell
set path=( $path /usr/openwin/bin ) if you use a C shell
```

Run the Updater program against the 3.0 CVW database.

```
./updater
```

Enter the name of your CVW database to update in the "Database filename" field (e.g., `new.db`). Enter the password for the CVW Admin user at the prompt. If the Admin user has no password, then enter "none" as the password (without the quotes).

The update procedure is divided into four phases. Click on the start buttons, in order, waiting for the operations of each phase to be completed before moving on to the next one. If the checkbox for the phase becomes hilited, the operation was completed successfully, and you may proceed with the next phase of the update procedure. If you encounter a problem with the update procedure, please contact MITRE.



When all four phases of the update procedure are complete, copy the new database to the CVW Server directory.

```
cp new.db /opt/CVWserver/CVW.db
```

Updating the CVW database file from Version 3.1 to 3.2

These instructions are for upgrading any version 3.1 CVW database to a version 3.2 CVW database. If you have already upgraded from 3.0 to 3.2 by following the previous instructions, this section does not apply, and you should skip to the next section.

Upgrading to 3.2 from 3.1 simply involves applying a patch to the server once it is running. The patch is found in the file **31to32_patch.txt**. To upgrade, first copy your 3.1 database into the new server directory:

```
cp /opt/CVWserver.old/CVW.db /opt/CVWserver/.
```

Then, continue with these instructions to bring up the server. Once the server is running, use the Tk client to apply the patch: connect with the Admin user, then from the Admin menu, choose “Install patch...” Locate the patch file, and click OK. After the patch has been applied, your database will be version 3.2.

Modifying the cvw.boot (S99cvw) Startup/Shutdown Script

Change to the CVW Server directory and edit the **cvw.boot** script so the settings below reflect your CVW Server settings. This script is used to start and stop the CVW Server (e.g., `./cvw.boot start`, `./cvw.boot stop`).

cvwuser	=	cvw	CVW Server user account name
serverdir	=	/opt/CVWserver	CVW Server software directory
cvwname	=	CVW	CVW database file name
portnumber	=	8888	CVW Server port
num_fd	=	unlimited	Number of file descriptors for max number of
server			users allowed to connect to the

It is recommended that you accept the default values.

Move the existing **S99cvw** script in **/etc/rc3.d** from **S99cvw** to **backup.S99cvw**.

```
cd /etc/rc3.d
mv S99cvw backup.S99cvw
```

Copy the updated **cvw.boot** script from the CVW Server directory to **/etc/init.d/cvw**, then link it to **/etc/rc3.d/S99cvw**:

```
cp /opt/CVWserver/cvw.boot /etc/init.d/cvw
ln /etc/init.d/cvw /etc/rc3.d/S99cvw
```


Starting and Testing the Operation of the CVW Document Server

To start the CVW Document Server, run the following command as root:

```
/etc/init.d/cvwdns start
```

The operational status of the CVW Document Server can be tested from any workstation on the network that is running a Web browser. Enter the following URL:

```
http://<doc-server-hostname>:<doc-server-port-number>
```

```
Example: http://server.mitre.org:8889
```

If the Document Server is operational, a web page indicating the operational status will appear.

The CVW Document Server

The Document Server can be accessed only through the CVW at this time. Please use your CVW client to access documents and document information. Thank you.

Administrators can [click here to log in](#).

