

CVW

Collaborative Virtual Workspace CVW 3.2 to 4.0 Upgrade Guide

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Installation Contents

The installation software includes the following:

- MOO Server
 - 32to40_patch.txt
- Document Server
 - cvw-doc-server-4.0.*-sparc-Solaris2.tar.Z
 - cvw-doc-server-r.0.*-x86-Linux2.tar.Z

Upgrading CVW

Prior to Upgrading the CVW Server

If you are upgrading from a version of CVW below 3.2, first upgrade to version 3.2; see the document entitled “CVW Server 3.0 to 3.2 Upgrade Guide” .

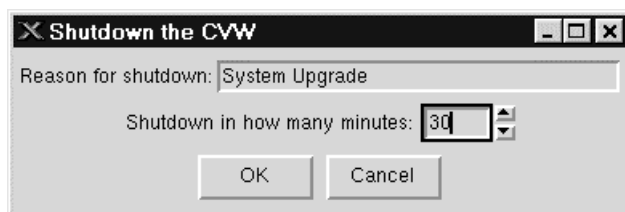
If you choose to upgrade the CVW Server, you will also need to upgrade all of your CVW clients to ensure compatibility in the client and server operation. The document server has been re-architected and 3.x clients will not be able to communicate with the new document server. Also 4.0 clients will not be able to communicate with the 3.x document server.

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 as root:

```
/etc/init.d/cvws 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.

```
cd /opt  
cp CVWserver CVWserver.old
```

Upgrading the CVW Document Server to Version 4.0

For CVW 4.0, the Document Server has been completely re-architected. None of the original document server can be used in the newer version. However, some utilities have been included in the distribution to allow administrators to copy documents from the original document server.

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

Note: The document server needs to be upgraded **before** the CVW server because it reads the document information in the original `/opt/CVWserver/doc-store` directory as part of the data transfer process.

The following procedures will upgrade version 1.4 or version 3.x of the Document Server to version 4.0.

Installing CVW Document Server Version 4.0

The original document server startup scripts listed below should be removed if they exist:

```
/etc/rc3.d/S99cvwds  
/etc/rc0.d/K66cvwds  
/etc/init.d/cvwds
```

Install the new document server software into the `/opt/CVWdocserver` directory according to the instructions in the *CVW 4.0 Installation Guide*.

Converting the document repository from 3.x to 4.0

Next, the new document server must be started in order to populate the database with the information from the old document server. If it isn't already running, the new document server can be started using the following command:

```
/etc/init.d/cvwds start
```

Move to the admin directory within the new document server directory structure. Inside that directory, the script `transfer-data.pl` will do the appropriate operations for moving the document data. Before running this script, however, The script must be modified for your current configuration. Open `transfer-data.pl` with a file editor and modify the following lines:

```
$old_docstore_dir = "/opt/CVWserver/doc-store"  
$new_docstore_dir = "/opt/CVWdocserver/apache/htdocs"
```

Once modified, the document data can be transferred using the script from the admin directory using the `runperl` script:

```
cd admin  
./runperl transfer-data.pl > transfer-output.txt  
chown nobody docstore
```

The script will note the documents being moved and any errors encountered. The documents which encountered errors could then be transferred by hand if required when the script completes.

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/cvws 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, the Apache web server test page will appear with the main title "*It Worked! The Apache Web Server is Installed on this Web Site!*".

To check the operation of the servlet, a test servlet is included with the distribution. Using the web browser again, enter the following URL:

`http://<doc-server-hostname>:<doc-server-port-number>/example/Hello`
Example: `http://server.mitre.org:8889/example/Hello`

An operational servlet will return:

Example Apache JServ Servlet
Congratulations, Apache JServ is working!

For debugging purposes, the following log files should provide helpful information:

`/opt/CVWdocserver/apache/logs/error_log`
`/opt/CVWdocserver/docservlet/docserv.log`
`/opt/CVWdocserver/docservlet/jserv.log`

Upgrading the CVW Server to 4.0

Make sure your CVW Server has been shut down prior to upgrading. These instructions assume that you have already upgraded the document server and the previous CVW Server directory was copied to /opt/CVWserver.old. Now that the document server has been upgraded, you can delete your /opt/CVWserver directory and create a new CVW Server directory as /opt/CVWserver for this upgrade.

```
cd /opt
rm -r CVWserver
mkdir CVWserver
```

Copying Required Files

You will need to copy some files from your old server directory to your new server directory:

```
cp /opt/CVWserver.old/CVW.db.new /opt/CVWserver/.
cp /opt/CVWserver.old/cvw.boot /opt/CVWserver/.
cp /opt/CVWserver.old/start-mooserver /opt/CVWserver/.
cp /opt/CVWserver.old/moo /opt/CVWserver/.
cp /opt/CVWserver.old/README /opt/CVWserver/.
cp /opt/CVWserver.old/LICENSE /opt/CVWserver/.
cp /opt/CVWserver.old/LICENSE.JHCore /opt/CVWserver/.
cp /opt/CVWserver.old/LICENSE.LambdaMOO /opt/CVWserver/.
```

Then set the ownership of all files in the CVWserver directory to the cvw user.

```
cd /opt/CVWserver
chown -R cvw .
chgrp -R 2 .
chmod 750 .
chmod -R go-w *
```

Updating the CVW database file from Version 3.2 to 4.0

Start the CVW Server by running the following command as root:

```
/etc/init.d/cvw start
```

Once the server is running, install the patch file **32to40_patch.txt** included in the new distribution. To do this, log in as the Admin user to the CVW client. From the “Admin” menu, select “Install patch...”. Enter the full path of the patch file in the dialog box (or use the file browser to navigate to the file), and select "OK".

After installing the patch, enter the following CVW command in the client entry area:

```
@dump-database
```

The patch takes effect immediately, and there is no need to shutdown or restart the server. Your CVW server upgrade is now complete.

Upgrading the CVW Clients

Upgrading the CVW Unix Client

The Unix CVW client is now the same as the Windows Java client and none of the files from previous versions are used for this 4.0 version. Move the previous CVW client directory to another directory. You may also want to create a tar file of this directory for archive purposes.

```
cd /opt
mv CVW CVW.old.
```

Now, follow the installation instructions found in the *CVW 4.0 Installation Guide*. You can use the previous mime-db file from 3.x by replacing the version just installed with your 3.x version. You may first want to make a backup of the mime-db file which gets installed with version 4.0.

Upgrading the CVW Java Windows Client

To upgrade the Windows CVW client, follow the instructions found in the *CVW 4.0 Installation Guide*.

Upgrading the Windows Java Client CVW Server Configuration Files

In previous versions of CVW, the Windows Java client had a Server.cvw configuration file associated with each CVW server the user logs into. For version 4.0, there is an additional parameter that needs to be added to the Server.cvw file. It is used to connect to the Document Server. This server configuration file is used for both the Java Windows and Java Unix clients.

The following three lines are needed to connect to the document server are:

```
cvw.docserver.host  Host name of the CVW Document server host
cvw.docserver.port Port number of the CVW Document server
cvw.docserver.url  Path to the document servlet (typically /servlet/docservlet)
```

You need to add the **cvw.docserver.url** line to any existing Server.cvw files you would like to continue using.