



CSWS_PERL Installation Guide and Release Notes

April 2004

CSWS_PERL Version 2.0
CPQ-AXPVMS-CSWS_PERL-V0200--1.PCSI-DCX-AXPEXE

CSWS_PERL Version 1.1
CPQ-AXPVMS-CSWS_PERL-V0101--1.PCSI-DCX-AXPEXE

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CSWS_PERL **Version 2.0** runs with **Version 2.0** of the Secure Web Server for OpenVMS.
CSWS_PERL Version 2.0 is based on mod_perl 2.0 (build 1.99.09).

CSWS_PERL **Version 1.1** runs with **Version 1.3** of the Secure Web Server for OpenVMS.
CSWS_PERL Version 1.1 is based on mod_perl 1.25.

Software Prerequisites

CSWS_PERL Version 2.0 requires that the following software is installed *before* you install CSWS_PERL:

- OpenVMS Alpha Version 7.3-1 or higher
- [Secure Web Server Version 2.0 for OpenVMS](#)
- [Perl for OpenVMS Version 5.6.1 ECO 3](#)

CSWS_PERL Version 1.1 requires that the following software is installed *before* you install CSWS_PERL:

- OpenVMS Alpha Version 7.2-1 or higher
- [Secure Web Server Version 1.3 for OpenVMS Alpha](#)
- [Perl for OpenVMS Version 5.6.1](#)

Documentation

For more information about mod_perl, see [The Apache/Perl Integration Project](#).

The new mod_perl 2.0 (on which CSWS_PERL Version 2.0 is based) is a complete rewrite of mod_perl. For an overview of what has changed in mod_perl, see [Overview of mod_perl 2.0](#) from perl.apache.org.

See the [Perl for OpenVMS Installation Guide and Release Notes](#) for information about Perl for OpenVMS.

Downloading the Kit

Download CSWS_PERL Version 2.0 (for Secure Web Server Version 2.0) self-extracting file.

» [CSWS_PERL Version 2.0 for Secure Web Server for OpenVMS Alpha](#)

Download CSWS_PERL Version 1.1 (for Secure Web Server Version 1.3) self-extracting file.

» [CSWS_PERL Version 1.1 for Secure Web Server for OpenVMS Alpha](#)

When you save the file, confirm that the file extension of the saved file is .PCSI-DCX-AXPEXE. If the file extension is truncated, set the file extension to .PCSI-DCX-AXPEXE.

Expanding the Kit

To expand the CSWS_PERL for OpenVMS Alpha self-extracting file, enter one of the following commands, depending on the file you downloaded:

```
$ RUN CPQ-AXPVMS-CSWS_PERL-V0200--1.PCSI-DCX-AXPEXE
$ RUN CPQ-AXPVMS-CSWS_PERL-V0101--1.PCSI-DCX-AXPEXE
```

The system displays information about the file compression version, and help information about the command syntax.

At the `Decompress into (file specification) :` prompt, press return. The system expands the file and names the decompressed file CPQ-AXPVMS-CSWS_PERL-V0200--1.PCSI or CPQ-AXPVMS-CSWS_PERL-V0101--1.PCSI. Do not rename this file.

Before Beginning the Installation

Before you begin the installation of CSWS_PERL, do the following:

- [Install prerequisite software](#)

Install the Secure Web Server and Perl for OpenVMS, if they are not already installed.

- Add logical definitions for Perl

You must define the logical PERL_ROOT before you install or remove the CSWS_PERL kit. The CSWS_PERL kit installs several files that extend the capabilities of Perl. The PERL_ROOT logical must be available to CSWS_PERL in order to add and remove those files.

If you are running multiple versions of Perl, make sure that the Secure Web Server for OpenVMS can only "see" the version of Perl that has been modified to work with the Secure Web Server. You can do this by adding the logical definitions to LOGIN.COM for the account running the Secure Web Server. Note that if the logicals are defined this way, they must be JOB logicals so that they can be passed to any subprocesses.

For example, to define PERL_ROOT and PERLSHR, enter the following commands:

```
$ DEFINE/JOB/TRANSLATION=CONCEALED -
_$ PERL_ROOT DKB100:[PERL5_006_01.]
$ DEFINE/JOB PERLSHR PERL_ROOT:[000000] PERLSHR.EXE
```

- Shut down the Secure Web Server

Be sure that the Secure Web Server is shut down before you begin the installation of CSWS_PERL. Enter the following command:

```
$ @SYS$STARTUP:APACHE$SHUTDOWN
```

Installing CSWS_PERL for OpenVMS

To install the CSWS_PERL for Secure Web Server for OpenVMS Alpha kit, enter the following command.

```
$ PRODUCT INSTALL CSWS_PERL/DESTINATION=DISK1:[WEB_SERVER]
```

Note: You must install the CSWS_PERL kit into the same device and directory where you installed the Secure Web Server for OpenVMS. To see where the Secure Web Server is installed, enter the following command:

```
$ SHOW LOGICAL APACHE$ROOT
"APACHE$ROOT" = "DISK1:[WEB_SERVER.APACHE.SPECIFIC.hostname.]"
= "APACHE$COMMON:"
1 "APACHE$COMMON" = "DISK1:[WEB_SERVER.APACHE.]"
```

As the installation procedure progresses, the system displays the following information.

```
$ PRODUCT INSTALL CSWS_PERL/DESTINATION=DISK1:[WEB_SERVER]
```

```
The following product has been selected:
```

```
CPQ AXPVMS CSWS_PERL V2.0
```

```
Layered Product
```

```
Do you want to continue? [YES]
```

```
Configuration phase starting ...
```

You will be asked to choose options, if any, for each selected product and for any products that may be installed to satisfy software dependency requirements.

CPQ AXPVMS CSWS_PERL V2.0

Compaq Computer Corporation & The Apache Software Foundation.

* This product does not have any configuration options.

Execution phase starting ...

The following product will be installed to destination:

CPQ AXPVMS CSWS_PERL V2.0 DISK1:[WEB_SERVER]

Portion done: 0%...10%...20%...30%...40%...50%...60%...70%...80%...90%...100%

The following product has been installed:

CPQ AXPVMS CSWS_PERL V2.0 Layered Product

CPQ AXPVMS CSWS_PERL V2.0

Post-installation tasks are required for Mod_Perl for OpenVMS.

The release notes give detailed directions. This information is a brief checklist.

This installation modifies APACHE\$ROOT:[CONF]HTTPD.CONF to enable Mod_Perl. Check HTTPD.CONF for accuracy. The line "Include /apache\$root/conf/mod_perl.conf" should be the only difference. Also study the Mod_Perl configuration file (APACHE\$ROOT:[CONF]MOD_PERL.CONF) for options required for your site. The Modperl::Registry module is enabled by default and the location "/perl" is defined to access it.

The Apache server must be shutdown and restarted to make these changes to the HTTPD.CONF file take place. Test that Mod_Perl is working by accessing the sample script from a browser:

http://<your web server host>/perl/perl_rules.pl

Thank you for using the Secure Web Server based on Apache.

Post-installation Task

- Review MOD_PERL.CONF

Review the APACHE\$COMMON:[CONF]MOD_PERL.CONF configuration file to be sure it enables all of the features required for your site.

Removing CSWS_PERL for OpenVMS

You can remove the CSWS_PERL kit by using the POLYCENTER Software Installation utility. The Secure Web Server must be shut down before you remove CSWS_PERL.

To remove CSWS_PERL, enter the following commands:

```
$ SET DEF APACHE$ROOT: [000000]
$ @SYS$STARTUP:APACHE$SHUTDOWN
$ PRODUCT REMOVE CSWS_PERL
```

The PRODUCT REMOVE command removes all files created by this installation. It also attempts to remove the directories defined by this installation. The removal also deletes the reference to the MOD_PERL.CONF configuration file from the HTTPD.CONF file.

Release Notes

This section contains notes on the current release of CSWS_PERL.

- [Apache Perl modules require changes in mod_perl 2.0](#)

Many Apache Perl modules that currently run under mod_perl 1.0 will require changes to run under mod_perl 2.0. Basic functionality has changed, and there are also changes to file locations. See the Apache Perl website for detailed information on porting Apache Perl modules to mod_perl 2.0 at <http://perl.apache.org/docs/2.0/user/porting/porting.html>.

- [Problem corrected: CSWS_PERL logical names exceeding 255 characters](#)

CSWS_PERL uses logical names to contain environment variables used by Perl scripts. Previously, if the equivalence string for any logical name exceeded 255 characters, CSWS_PERL terminated with the following error in APACHE\$ROOT:[LOGS]ERROR_LOG:

```
Fatal VMS error (status=340) at ROOT$: [PERL5_005_03]VMS.C;2
```

This error was most likely to occur if your browser transmits an HTTP_ACCEPT string that exceeds 255 characters.

This error has been corrected in Perl V5.5-3A2 and higher for OpenVMS. If you have an earlier version of Perl, download and install the latest version of Perl, then reinstall CSWS_PERL to correct this problem.

- [File protections of Perl scripts](#)

When you create a Perl script, make sure it is world readable and world executable.

For example:

```
$ SET FILE/PROTECTION=W:RE MYSCRIPT.PL
```

- [Tracking versions of CSWS_PERL and Perl](#)

The CSWS_PERL and Perl kits are tightly connected. Future versions of Perl or CSWS_PERL may not interact correctly across version numbers. CSWS_PERL Version 2.0 works with [Perl for OpenVMS Version 5.6.1 ECO 3](#). CSWS_PERL Version 1.1 works with [Perl for OpenVMS Version 5.6.1](#).

- [Shareable image mismatch](#)

If you are pointing at the wrong version of Perl, an ident mismatch occurs and the following error appears in the log file.

```
Syntax error on line 207 of /apache$root/conf/httpd.conf:
```

```
Can't locate API module structure `perl_module' in file
/apache$root/mod_perl.exe:
%LIB-E-ACTIMAGE, error activating image !AS
```

To correct this problem, see the *Add logical definitions for Perl* section in [Before Beginning the Installation](#).
