CSWS_PERL
for Compaq Secure Web Server
for OpenVMS Alpha

Installation Guide and Release Notes

January 25, 2002

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

Contents:

CSWS_PERL V1.1 runs with Version 1.2 of the *Compaq Secure Web Server for OpenVMS Alpha*.

Software Prerequisites

The **CSWS_PERL for OpenVMS** kit requires that the following software is installed *before* you install CSWS_PERL:

- OpenVMS Alpha Version 7.2-1 or higher
- Compaq Secure Web Server V1.2 for OpenVMS Alpha
- Perl V5.6.1

Documentation

For more information about MOD_PERL, see The Apache/Perl Integration Project.

See the Perl for OpenVMS Alpha Installation Guide and Release Notes for information about running Perl.

Downloading the Kit

Download CSWS_PERL V1.1 or V1.0-1 for Compaq Secure Web Server for OpenVMS Alpha self-extracting file.

Make sure the file type of the saved file is .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-V0101--1.PCSI-DCX-AXPEXE
$ RUN CPQ-AXPVMS-CSWS_PERL-V0100-1-1.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-V0101--1.PCSI. Do not rename this file.

Before You Begin the Installation

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

- 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 *Compaq Secure Web Server* can only see the version of Perl (V5.6.1) that has been modified to work with the *Compaq Secure Web Server for OpenVMS Alpha*. You can do this by adding the logical definitions to `LOGIN.COM` for the account running the *Compaq 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.

  To define PERL_ROOT and PERLSHR, enter the following commands:

  ```
  $ DEFINE/JOB PERL_ROOT DKB100:[PERL5_006_01.]/TRANS=CONC
  $ DEFINE/JOB PERLSHR PERL_ROOT:[000000]PERLSHR.EXE
  ```

Installing CSWS_PERL for OpenVMS

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

Note: You must install the CSWS_PERL kit into the same device and directory where you installed *Compaq Secure Web Server for OpenVMS*.

For example:

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

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

For a description of the features you can request with the PRODUCT INSTALL command when starting an installation such as running the IVP, purging files, and configuring the installation, see the *POLYCENTER Software Installation Utility User's Guide.*

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

```
        The following product has been selected:
            CPQ AXPVMS CSWS_PERL V1.1              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 V1.1

            Compaq Computer Corporation.

        * This product does not have any configuration options.

        Execution phase starting ...

        The following product will be installed to destination:
            CPQ AXPVMS CSWS_PERL V1.1          DISK1:[WEB_SERVER.]

        Portion done: 0%..20%..30%..40%..80%..100%

        The following product has been installed:
            CPQ AXPVMS CSWS_PERL V1.1              Layered Product

        CPQ AXPVMS CSWS_PERL V1.1

        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 APACHE::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 Compaq Secure Web Server for OpenVMS.
```

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 Compaq Secure Web Server for OpenVMS

You can remove the CSWS_PERL kit by using the POLYCENTER Software Installation utility.
The *Compaq 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 the HTTPD.CONF file.

Release Notes

This section contains notes on the current release of CSWS_PERL.

- 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.

- Order of installing optional modules

    Previous CSWS_PERL kits required that you install CSWS_PERL before installing the MOD_JSERV kit, if you were installing both kits on the same system. This restriction has been removed. You can install CSWS_PERL before or after CSWS_JAVA (which contains MOD_JSERV), or you can install one without the other.

    However, you must install and configure *Compaq Secure Web Server for OpenVMS* and *Perl for OpenVMS* before you install CSWS_PERL.

- 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. This release of CSWS_PERL (V1.1) works with Perl V5.6.1.

- 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
    ```