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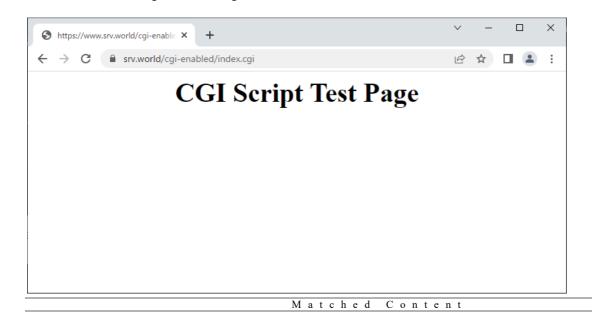
Apache2 : Use CGI Scripts 2022/05/10

Use CGI (Common Gateway Interface) Scripts.

[1] Enable CGI module.

```
root@www:~#
a2enmod cgid

Enabling module cgid.
To activate the new configuration, you need to run:
  systemctl restart apache2

root@www:~#
systemctl restart apache2
```

After enabling CGI, CGI scripts are allowed to execute under [/usr/lib/cgi-bin] directory by default.

[2] Therefore, for example, if a Perl script [index.cgi] is put under the directory, it's possible to access to the URL [http://(Apache2 Server)/cgi-bin/index.cgi] from Clients.

```
# create a test script

root@www:~#
cat > /usr/lib/cgi-bin/test_script <<'EOF'
#!/usr/bin/perl
print "Content-type: text/html\n\n";
print "Hello CGI\n";
EOF
root@www:~#
chmod 705 /usr/lib/cgi-bin/test_script
# try to access

root@www:~#
curl localhost/cgi-bin/test_script

Hello CGI
```

[3] If you'd like to allow CGI in other directories except default, configure like follows.
For example, allow in [/var/www/html/cgi-enabled].

```
root@www:~#
vi /etc/apache2/conf-available/cgi-enabled.conf
```

\# create new
\# specify extension that are processed as CGI on [AddHandler cgi-script] line

```
<Directory "/var/www/html/cgi-enabled">
    Options +ExecCGI
    AddHandler cgi-script .cgi .pl .py .rb
</Directory>
```

root@www:~#
mkdir /var/www/html/cgi-enabled

root@www:~#
a2enconf cgi-enabled

```
Enabling conf cgi-enabled.
To activate the new configuration, you need to run:
  systemctl reload apache2
```

root@www:~#
systemctl reload apache2

[4] Create a CGI test page and access to it from any client computer with web browser.

root@www:~#
vi /var/www/html/cgi-enabled/index.cgi

```
#!/usr/bin/python3

print("Content-type: text/html\n")
print("<html>\n<body>")
print("<div style=\"width: 100%; font-size: 40px; font-weight: bold; text-align: center;\">")
print("CGI Script Test Page")
print("</div>")
print("</body>\n</html>")
```

root@www:~#
chmod 755 /var/www/html/cgi-enabled/index.cgi

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- [(14) Configure mod_security](#)
- [(15) Configure mod_ratelimit](#)
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