

RHCE BOOT CAMP

CGI Scripting and Squid



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E N G I N E E R

CGI SCRIPTING

- Scripting involves making Apache *execute* a file and return it's *output*, as opposed to simply returning the file itself.
- There is an entire framework for facilitating this operation, and allowing the webserver to communicate basic information to script through the use of environment variables, and sometimes input.
- This is known as CGI scripting, or Common Gateway Interface scripting.

BASIC SCRIPTING

- Some of the simplest scripting requires only a shell script.
Consider:

```
#!/bin/bash
```

```
echo -e "Content-type: text/html\n"
```

```
echo "<h1>Hello world!</h1>"
```


BASIC SCRIPTING

- If we put the appropriate execute permissions on the script, then we can see it output the expected content at the command line:

```
# chmod +x myscript
```

```
# ./myscript
```

```
Content-type: text/html
```

```
<h1>Hello world!</h1>
```


BASIC SCRIPTING

- If this file is placed in a location identified to Apache as supporting executables (CGI scripts), then we have a working CGI!

LAB

1. Install `httpd-manual` if you have not already done so.
2. Look up the `ScriptAlias` directive in the manual.
3. Use this directive and your simple shell script to create a simple, dynamic webpage. Maybe have it report the current date and time with the `date` command.

SQUID

- Squid is designed to cache internet objects and can act as a proxy server for HTTP, FTP, and many other types of requests.
- Squid is highly flexible and powerful, but for the RHCE exam, you only need to demonstrate the ability to set it up and proxy web services, possibly denying access to a given subnet.
- The configuration file for Squid is

`/etc/squid/squid.conf`

KEY SQUID SETTINGS

- **http_port** *3128 by default*
- **visible_hostname** *the hostname Squid broadcasts*

KEY SQUID SETTINGS

- Access control in squid is handled via ACL definitions coupled with access definitions, as:

```
acl mynet src 192.168.0.0/255.255.255.0
```

```
acl yournet src 192.168.1.0/255.255.255.0
```

```
http_access allow mynet
```

```
http_access deny yournet
```


LAB

1. Configure your server to offer Squid proxy service to the person sitting on your right, but not to the person sitting on your left.
2. This service should listen on port 8080.


```
slideshow.end();
```