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**LAB 5 REPORT**

**Checkpoint 1:** Access https://localhost:4433 and describe observations.

**Steps I have followed:**

1. Here in this portion I have created an apache server
2. Then by default it was hosted on localhost (127.0.0.1)
3. It was not secure and used protocol http://
4. Then I added example.com in the /var/www/example.com/html/index.html
5. Then I added index.html in the file and it will be hosted in example.com
6. Then I virtually configured at http protocol port 80 and hosted the site at example.com in http:// which is not secure

**Checkpoint 2:** Repeat the setup for webserverlab.com and show the results.

**Steps I have followed:**

1. Then I followed the same way and served the /var/www/html/index.html
2. Configured the default-ssl.conf and added the webserverlab.com to the localhost
3. Then webserverlab.com and example.com were hosted on http

**Checkpoint 3:** Demonstrate accessing https://example.com via HTTPS.

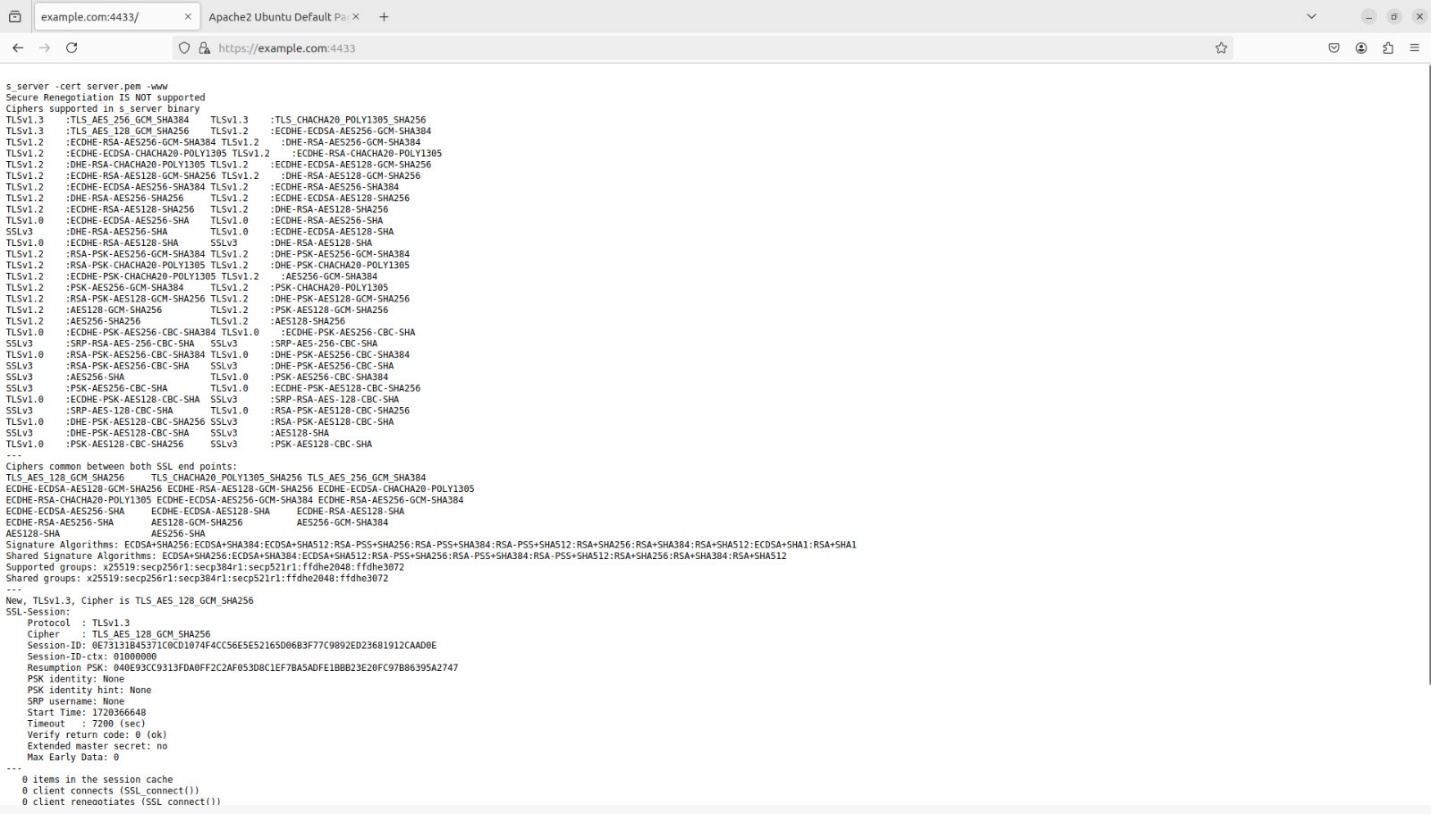
**Steps I have followed:**

1. Then I first became a CA by copying openssl.cnf in demoCA. I generated RSA key pair and then followed the instruction to make the certificate
2. Then I configured 443 (HTTPS) for the example.com and there I added the configuration blocks and added the route of the var/www/example.com/html/index.html
3. Then I configured SSLCertificateFile & SSLCertificateKeyFile which was generated before
4. Then I forcefully make the exception to trust my local CA by the mozila browser that is how I was able to access <https://example.com> properly. Though I used external sources to fix some certificate issues.
5. **Checkpoint 4:** Set up and access https://webserverlab.com via HTTPS.

**Steps I have followed:**

1. I followed the same steps to host <https://werbserverlab.com> using https

Here are some of the screenshots of my process:

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