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ДИСЦИПЛИНА: «Распределенные системы»

Отчет по практической работе №1

Тема:

«Семинар 1. HTTР»

Выполнил:

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Режим тестирование:

```
⊕
                                                Q ≡
                       lemp@u20-04: ~
lemp@u20-04:~$ sudo telnet -d localhost 22
[sudo] password for lemp:
Trying 127.0.0.1...
Connected to localhost.
Escape character is '^]'.
SSH-2.0-OpenSSH 8.2pl Ubuntu-4ubuntu0.5
Invalid SSH identification string.
Connection closed by foreign host.
lemp@u20-04:~$ sudo telnet opennet.ru 80
Trying 217.65.3.21...
Connected to opennet.ru.
Escape character is '^]'.
Connection closed by foreign host.
lemp@u20-04:~$ sudo telnet india.colorado.edu 13
Trying 128.138.140.44...
Connected to india.colorado.edu.
Escape character is '^]'.
Connection closed by foreign host.
lemp@u20-04:~$
```

* Mark bundle as not supporting multiuse < HTTP/1.1 301 Moved Permanently

* Connection #0 to host mgpu.ru left intact

< Location: https://www.mgpu.ru/

< Content-length: 0

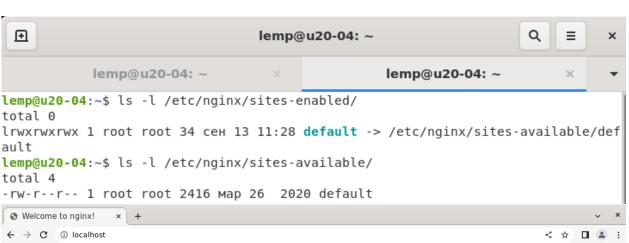
lemp@u20-04:~\$

```
lemp@u20-04:~$ sudo curl -v https://www.hse.ru
 [sudo] password for lemp:
     Trying 178.248.234.104:443...
 * TCP NODELAY set
 * Connected to www.hse.ru (178.248.234.104) port 443 (#0)
 * ALPN, offering h2
 * ALPN, offering http/1.1
 * successfully set certificate verify locations:
     CAfile: /etc/ssl/certs/ca-certificates.crt
   CApath: /etc/ssl/certs
 * TLSv1.3 (OUT), TLS handshake, Client hello (1):
 * TLSv1.3 (IN), TLS handshake, Server hello (2):

* TLSv1.3 (IN), TLS handshake, Encrypted Extensions (8):

* TLSv1.3 (IN), TLS handshake, Certificate (11):
 * TLSv1.3 (IN), TLS handshake, CERT verify (15):
* TLSv1.3 (IN), TLS handshake, Finished (20):
 * TLSv1.3 (OUT), TLS change cipher, Change cipher spec (1):
 * TLSv1.3 (OUT), TLS handshake, Finished (20):
 * SSL connection using TLSv1.3 / TLS AES 128 GCM SHA256
 * ALPN, server accepted to use h2
 * Server certificate:
   subject: CN=*.hse.ru
   start date: Jan 21 00:00:00 2022 GMT
   expire date: Feb 21 23:59:59 2023 GMT
   subjectAltName: host "www.hse.ru" matched cert's "*.hse.ru"
    issuer: C=GB; ST=Greater Manchester; L=Salford; O=Sectigo Limited; CN=Sectigo RSA Domain Vali
dation Secure Server CA
   SSL certificate verify ok.
* Using HTTP2, server supports multi-use
* TLSv1.3 (IN), TLS handshake, Newsession Ticket (4):
* TLSv1.3 (IN), TLS handshake, Newsession Ticket (4):
* old SSL session ID is stale, removing
* Mark bundle as not supporting multiuse
< HTTP/1.1 200 OK
< Server: nginx/1.18.0 (Ubuntu)
< Date: Tue, 13 Sep 2022 08:09:21 GMT
< Content-Type: text/html; charset=UTF-8
< Transfer-Encoding: chunked
< Vary: Accept-Encoding
< Last-Modified: Tue, 13 Sep 2022 08:08:55 GMT
< Cache-Control: max-age=574, must-revalidate
< Vary: Cookie
< Link: <https://www.mgpu.ru/wp-json/>; rel="https://api.w.org/"
< Link: <a href="https://www.mgpu.ru/wp-json/wp/v2/pages/2">https://www.mgpu.ru/wp-json/wp/v2/pages/2</a>; rel="alternate"; type="application/json"
< Link: <https://www.mgpu.ru/>; rel=shortlink
```

```
* TLSv1.3 (IN), TLS handshake, Newsession Ticket (4):
* TLSv1.3 (IN), TLS handshake, Newsession Ticket (4):
* old SSL session ID is stale, removing
* Connection state changed (MAX CONCURRENT STREAMS == 16)!
< HTTP/2 302
< server: QRATOR
< date: Tue, 13 Sep 2022 08:15:44 GMT
< content-type: text/html
< content-length: 138
< location: https://www.hse.ru/en/
< expires: Tue, 13 Sep 2022 08:15:44 GMT
< cache-control: max-age=0
< strict-transport-security: max-age=15552000
< x-xss-protection: 1; mode=block; report=https://www.hse.ru/n/api/xss/report</pre>
< set-cookie: tracking=ZEsUBGMgPDBL38EyCWAPAg==; expires=Thu, 31-Dec-37 23:55:55 GMT; domain=.hs</pre>
e.ru; path=/
<html>
<head><title>302 Found</title></head>
<center><h1>302 Found</h1></center>
<hr><center>nginx</center>
</body>
</html>
* Connection #0 to host www.hse.ru left intact
lemp@u20-04:~$
```



Welcome to nginx!

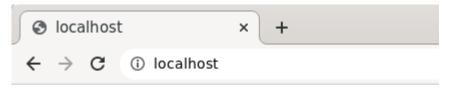
If you see this page, the nginx web server is successfully installed and working. Further configuration is required.

For online documentation and support please refer to <u>nginx.org</u>. Commercial support is available at <u>nginx.com</u>.

Thank you for using nginx.

```
⊞
                      lemp@u20-04: /var/www/simple static
                                                                  Q
                                                                      \equiv
           lemp@u20-04: ~
                                       lemp@u20-04: /var/www/simple...
lemp@u20-04:~$ ls -l /etc/nginx/sites-enabled/
total 0
lrwxrwxrwx 1 root root 34 сен 13 11:28 default -> /etc/nginx/sites-available/def
ault
lemp@u20-04:~$ ls -l /etc/nginx/sites-available/
total 4
-rw-r--r-- 1 root root 2416 мар 26 2020 default
lemp@u20-04:~$ sudo rm /etc/nginx/sites-enabled/default
[sudo] password for lemp:
lemp@u20-04:~$ sudo mkdir -p /var/www/simple_static
lemp@u20-04:~$ sudo chown lemp /var/www/simple static
lemp@u20-04:~$ cd /var/www/simple static
```

lemp@u20-04:/var/www/simple_static\$



This is our first html file

```
lemp@u20-04:/etc/nginx$ cd
lemp@u20-04:~$ sudo nano /etc/nginx/sites-available/simple_static.conf
lemp@u20-04:~$ cd /etc/nginx/
lemp@u20-04:/etc/nginx$ sudo nginx -t
nginx: the configuration file /etc/nginx/nginx.conf syntax is ok
nginx: configuration file /etc/nginx/nginx.conf test is successful
lemp@u20-04:/etc/nginx$ sudo service nginx start
lemp@u20-04:/etc/nginx$ curl -v http://localhost:80/
   Trying 127.0.0.1:80...
* TCP NODELAY set
 Connected to localhost (127.0.0.1) port 80 (#0)
> GET / HTTP/1.1
> Host: localhost
> User-Agent: curl/7.68.0
> Accept: */*
* Mark bundle as not supporting multiuse
< HTTP/1.1 200 OK
< Server: nginx/1.18.0 (Ubuntu)
< Date: Tue, 13 Sep 2022 10:15:58 GMT
< Content-Type: text/html
< Content-Length: 41
< Last-Modified: Tue, 13 Sep 2022 08:51:23 GMT
< Connection: keep-alive
< ETag: "6320448b-29"
< Accept-Ranges: bytes
<body>This is our first html file</body>
* Connection #0 to host localhost left intact
```