

課題

必須1

```
$ systemctl restart httpd.service
```

```
$ systemctl reload httpd.service
```

2つのコマンドの違いを述べよ。

必須2

03_Apache資料のポート開放の部分で、VirtualBoxマネージャーから設定を行った。NATとは何か説明せよ。

必須3

03_Apache資料のポート開放の部分で、VirtualBoxマネージャーから設定を行った。ポートフォワーディングとは何か説明せよ。

必須4

以下の1枚目の画像はsystemctlコマンドでstatusを確認したときのエラーである。

以下の2枚目の画像は/etc/httpd/conf/httpd.confの一部である。

この2枚の画像から、なぜsystemctlコマンドでstatusを確認したときにエラーが出るのか、その原因を説明せよ。

```
[furuhaman@localhost ~]$ systemctl status httpd.service
■ httpd.service - The Apache HTTP Server
   Loaded: loaded (/usr/lib/systemd/system/httpd.service; disabled; vendor preset: disabled)
   Active: failed (Result: exit-code) since Thu 2020-11-19 01:20:22 JST; 12min ago
     Docs: man:httpd(8)
           man:apachectl(8)
   Process: 1581 ExecStop=/bin/kill -WINCH ${MAINPID} (code=exited, status=0/SUCCESS)
   Process: 1586 ExecStart=/usr/sbin/httpd $OPTIONS -DFOREGROUND (code=exited, status=1/FAILURE)
  Main PID: 1586 (code=exited, status=1/FAILURE)

Nov 19 01:20:21 localhost.localdomain systemd[1]: Starting The Apache HTTP Server...
Nov 19 01:20:21 localhost.localdomain httpd[1586]: AH00526: Syntax error on line 294 of /etc/ht...f:
Nov 19 01:20:21 localhost.localdomain httpd[1586]: Invalid command 'AddHandler', perhaps missp...on
Nov 19 01:20:22 localhost.localdomain systemd[1]: httpd.service: main process exited, code=exit...RE
Nov 19 01:20:22 localhost.localdomain systemd[1]: Failed to start The Apache HTTP Server.
Nov 19 01:20:22 localhost.localdomain systemd[1]: Unit httpd.service entered failed state.
Nov 19 01:20:22 localhost.localdomain systemd[1]: httpd.service failed.
Hint: Some lines were ellipsized, use -l to show in full.
```

```
#AddEncoding x-compress .Z
#AddEncoding x-gzip .gz .tgz
#
# If the AddEncoding directives above are commented-out, then you
# probably should define those extensions to indicate media types:
#
AddType application/x-compress .Z
AddType application/x-gzip .gz .tgz

#
# AddHandler allows you to map certain file extensions to "handlers":
# actions unrelated to filetype. These can be either built into the server
# or added with the Action directive (see below)
#
# To use CGI scripts outside of ScriptAliased directories:
# (You will also need to add "ExecCGI" to the "Options" directive.)
#
AddHandler cgi-script .cgi .php
Options +ExecCGI

# For type maps (negotiated resources):
#AddHandler type-map var

#
# Filters allow you to process content before it is sent to the client.
#
# To parse .shtml files for server-side includes (SSI):
# (You will also need to add "Includes" to the "Options" directive.)
#
AddType text/html .shtml
AddOutputFilter INCLUDES .shtml
</IfModule>
```

必須5

以下の画像は授業資料で紹介したエラーログである。これと同様のエラーを起こし(必ずしもdefault.phpである必要性はない)、そのエラーログのスクリーンショットを貼れ。

```
[Tue Nov 10 03:06:45.734371 2020] [:error] [pid 10001] [client 10.0.2.2:53952] script '/var/www/html/default.php' not found or unable to stat
```