

# Lab 8 Report

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## Contents

1. The first line with the `#!` tells the computer what interpreter to use to run the script. we have seen a similar thing on bash scripts to tell the computer to use the bash interpreter.
2. 

```
netcat www.spaceref.com 80
GET / HTTP/1.1
Host: www.spaceref.com
Connection: close

HTTP/1.1 200 OK
Date: Thu, 21 Oct 2021 17:30:38 GMT
Server: Apache/2.2.22 (Ubuntu)
X-Powered-By: PHP/5.3.10-1ubuntu3.13
Vary: Accept-Encoding
Connection: close
Transfer-Encoding: chunked
Content-Type: text/html

3250
<!DOCTYPE html>
<html lang="en">
<head>
  <title>SpaceRef</title>
  <meta http-equiv="Content-Type" content="text/html; charset=utf-8" />
```
3. 

```
netcat www.neverssl.com 80
GET / HTTP/1.1
Host: www.neverssl.com
```

Connection: close

HTTP/1.1 200 OK

Content-Type: text/html

Content-Length: 2536

Connection: close

Last-Modified: Thu, 19 Nov 2020 22:29:21 GMT

Accept-Ranges: bytes

Server: AmazonS3

Date: Thu, 21 Oct 2021 15:48:06 GMT

ETag: "e8bb9152091d61caa9d69fed8c4aebc6"

Vary: Accept-Encoding

X-Cache: Hit from cloudfront

Via: 1.1 b2f8f7bb31cc2fa916aba211d3a2979e.cloudfront.net (CloudFront)

X-Amz-Cf-Pop: SF053-C1

X-Amz-Cf-Id: MKbZ6txouaRGf6MZ4ErZXMigC8VdmXSWMaKgIrL9FHse3FMMpnOxDA==

Age: 7290

<html>

<head>

<title>NeverSSL - helping you get online</title>

<style>

body {

font-family: Montserrat, helvetica, arial, sans-serif;

font-size: 16px;

color: #444444;

margin: 0;

}

h2 {

font-weight: 700;

font-size: 1.6em;

margin-top: 30px;

}

p {

line-height: 1.6em;

}

.container {

max-width: 650px;

margin: 20px auto 20px auto;

```

        padding-left: 15px;
        padding-right: 15px
    }
    .header {
        background-color: #42C0FD;
        color: #FFFFFF;
        padding: 10px 0 10px 0;
        font-size: 2.2em;
    }
<!-- CSS from Mark Webster https://gist.github.com/markcwebster/9bdf30655cdd5279ba
</style>
</head>
<body>

    <div class="header">
<div class="container">
<h1>NeverSSL</h1>
</div>
    </div>

    <div class="content">
<div class="container">

    <h2>What?</h2>
    <p>This website is for when you try to open Facebook, Google, Amazon, etc
    on a wifi network, and nothing happens. Type "http://neverssl.com"
    into your browser's url bar, and you'll be able to log on.</p>

```

```

4. netcat www.spaceref.com 80
GET /img/logo_320red.png HTTP/1.1
Host: www.spaceref.com
Connection: close

HTTP/1.1 200 OK
Date: Thu, 21 Oct 2021 17:44:09 GMT
Server: Apache/2.2.22 (Ubuntu)
Last-Modified: Fri, 06 May 2016 14:21:30 GMT
ETag: "12434f-c74-5322d2cd8a159"
Accept-Ranges: bytes
Content-Length: 3188

```

Connection: close  
Content-Type: image/png

PNG

```
tEXtSoftwareAdobe ImageReadyqe<
      IDATxan x{~{
      @      vxyB
      EJX25$c&@ @ g>899%[JwJMW0/mXeF_S*TE}TmrT&'>dH_Ou}}l=362v8l|Uz%.,m_7#Y#qY6J=uyc.
] .<IF[PG9~f}%]S
aR//wkk
/7-
g4}IGN:v6
zmpa=]mBxU_<=*}7uE/
tf$YnghI1hwK}URp g4(. [iauU0v-61DkKPGh:FWoaB3,n&f

m%L!,2 \c-Y      )Y'['4tg)v1zZV$H9>p-_
      PeB(>>nGPo<d&Na{|IY'v$|VmS~|tKPNy%SB)?2
7 ps$Vl_H9
4'~HSvrZ'ri(rMW$K'.||! ?I xg0<7;d
{K3kzz'~ H~,c.hn?/3-<msN~{RqZ/H?
1DNAaFcW-pP{Rj3N0|v!hm$-g,t| 6QoL#}YH}N/B9mu
/O
~)3M>tPwk12^B|3A/?o~H8K2Dp o_4gUM=Pr!
D4s6M6@_t35A<$H&Fi.r@:I      Q
J8e<3n{0>20QhjD P"IwC'a%_~
oBq
4w\m}G
      | qV5EqVd'+N8
      7$;T+1.moA
      v{g"0#YFKEDZ0qHAom%:mVz%"U|p7}ACK5CR.4VXL
zoU;GQ9*
odVCd-t0
<q]svN"0g]u*}%
dKh&BVM_ |Ew[oJp7h
""gn2m.0o?{KTd!)TRv#9fs;TS7}sv@Ay;:SrZ([Jk" zN ~SZt3
COu_,m.+Xx?#NQX}1"Pb[>,)]Wk]qW<E#J|:kD.i%1^
2(1'n-QH      2,CZ%<BU|M
      sOM<2vuvKi;K^8 *-#IC$3?5@J|^W/[G"r,@Ax;@V1/0?qp\WUgy'<0j/
      g.$m{T)t\]ByPvGG&@'Kx
      ILQ0\'.~Ku@"Svbph5G;.eZ%}(j;Sfknx5T)I_$SL)p<1=
```

```
uM\MI({N' 'ls/2
FM*u(^:]::m)4g,<[ai      #=j(3iB
  $x(vg'A
_4tr#7-k~mrN*Y+@NUDprN.]IA7Wu~FVbewaoTB8CBmol-h5lf%/[1iq&S%[Zu1mKg/<xE9yS1      'MO
  "d
IENDB'
```

The data is in ascii (or unicode), representing an image, therefore it will have no useful information to a human reader.