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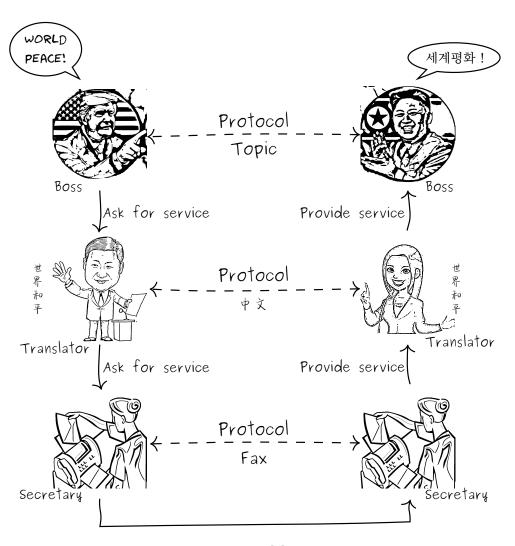


Fig. 1: Layered design

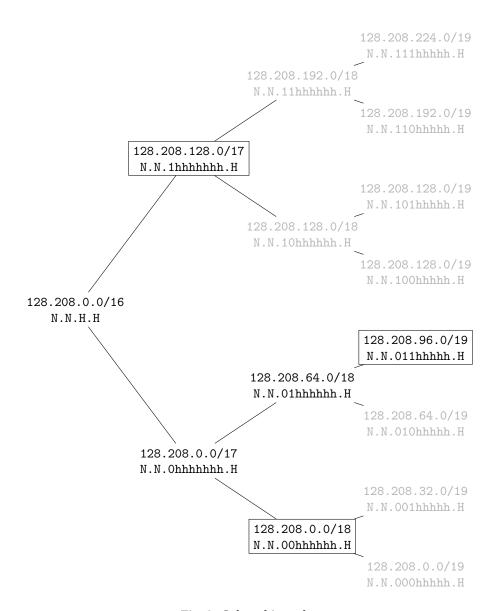


Fig. 2: Subnet hierarchy

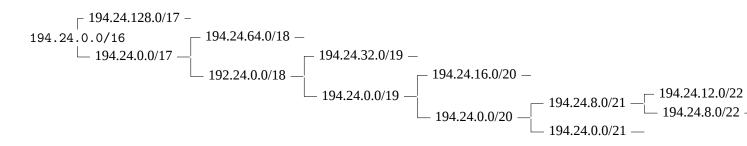


Fig. 3: Subnetting example - 194.24.0.0/16

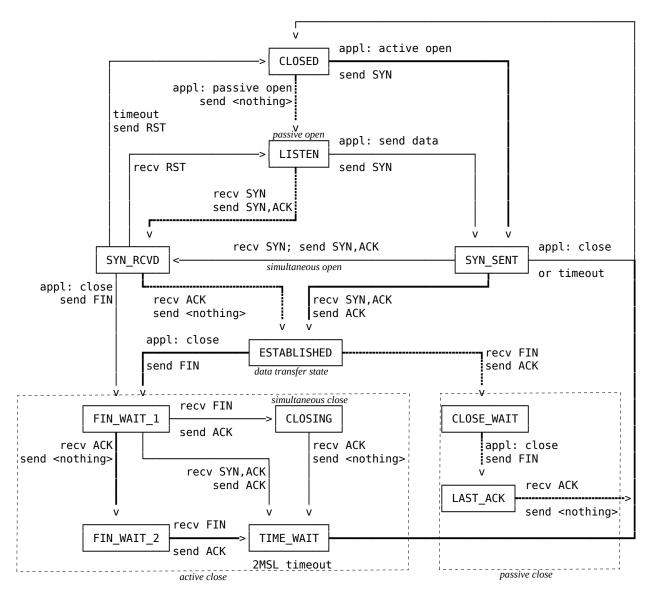


Fig. 4: TCP state transition diagram

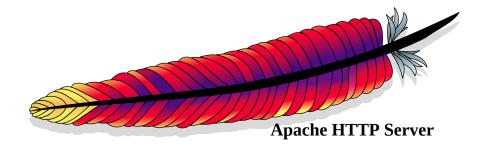


Fig. 5: Apache HTTP Server

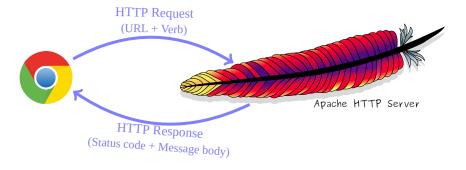


Fig. 6: HTTP client/server interaction

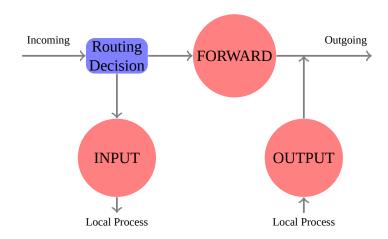


Fig. 7: iptables chains

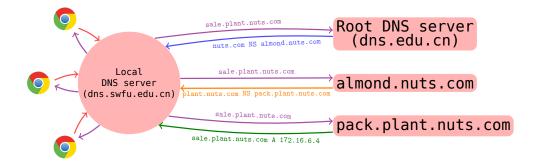


Fig. 8: DNS non-recursive transaction

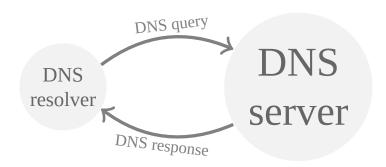


Fig. 9: DNS overview

Fig. 10: HTTP request

```
< HTTP/1.1 200 OK ←
                                           Status line
< Date: Thu, 15 Jan 2015 08:18:50 GMT
< Server: Apache/2.4.10 (Debian)
< Last-Modified: Tue, 02 Sep 2014 03:49:24 GMT
< ETag: "1fd-5020d015e5e4a"
                                           Header lines
< Accept-Ranges: bytes
< Content-Length: 509
< Vary: Accept-Encoding
< Content-Type: text/html
<
                                           Empty line
<html>
<head>
<title>Hello, world!</title>
</head>
                                Data
<body>
<h1>Hello, world!</h1>
</body>
</html>
* Connection #0 to host cs2.swfu.edu.cn left intact
```

Fig. 11: HTTP Response

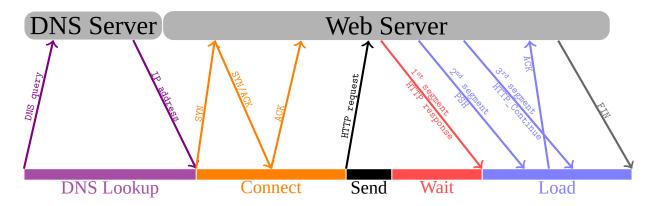


Fig. 12: HTTP transaction

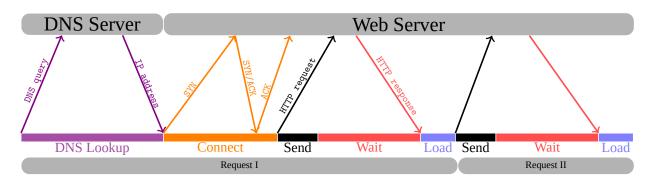


Fig. 13: HTTP persistent transaction

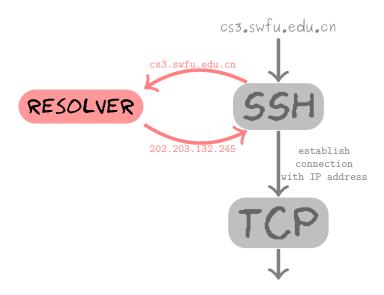


Fig. 14: DNS resolver



Fig. 15: TCP socket pair

Fig. 16: URL

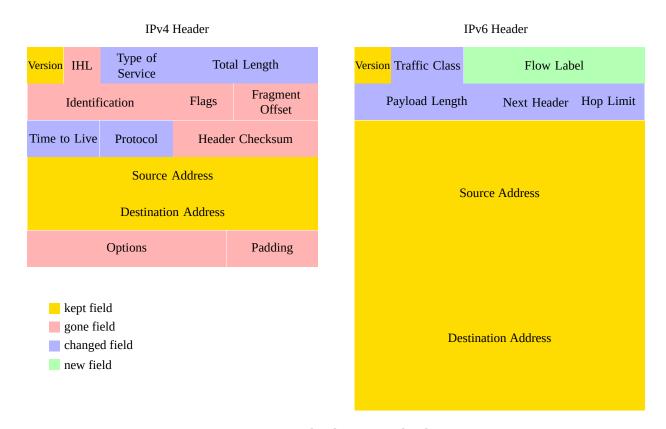


Fig. 17: IPv4 header vs. IPv6 header