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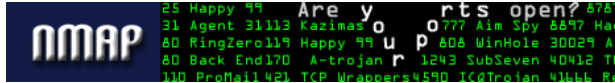
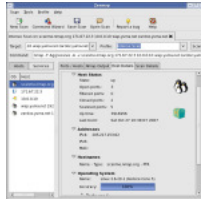
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```
# nmap -A -iU scanme.nmap.org
Starting Nmap 4.01 ( http://www
Interesting ports on scanme.n
(The 1657 ports scanned but no
PORT STATE SERVICE VERSION
22/tcp open  ssh      OpenSSH
25/tcp open  smtp      Postfix
53/tcp open  domain   ISC BIND
78/tcp closed popper
80/tcp open  http     Apache
113/tcp closed auth
Service target: general purpose
Running: linux 2.6.9
OS details: Linux 2.6.0 - 2.6.
Uptime: 26,177 days (since Wed
Interesting ports on dize.info
```

Nmap Network Scanning

TCP/IP Reference

Preface



TCP/IP Reference

This book assumes basic familiarity with TCP/IP and networking concepts. You won't find a primer on the OSI seven-layer model or a rundown of the Berkeley Socket API within these pages. For a comprehensive guide to TCP/IP, I recommend *"The TCP/IP Guide"* by Charles Kozierok or the old classic *"TCP/IP Illustrated, Volume 1"* by W. Richard Stevens.

While TCP/IP familiarity is expected, even the best of us occasionally forget byte offsets for packet header fields and flags. This section provides quick reference diagrams and field descriptions for the IPv4, TCP, UDP, and ICMP protocols. These beautiful diagrams are used by permission of author Matt Baxter.

Figure 1. IPv4 header

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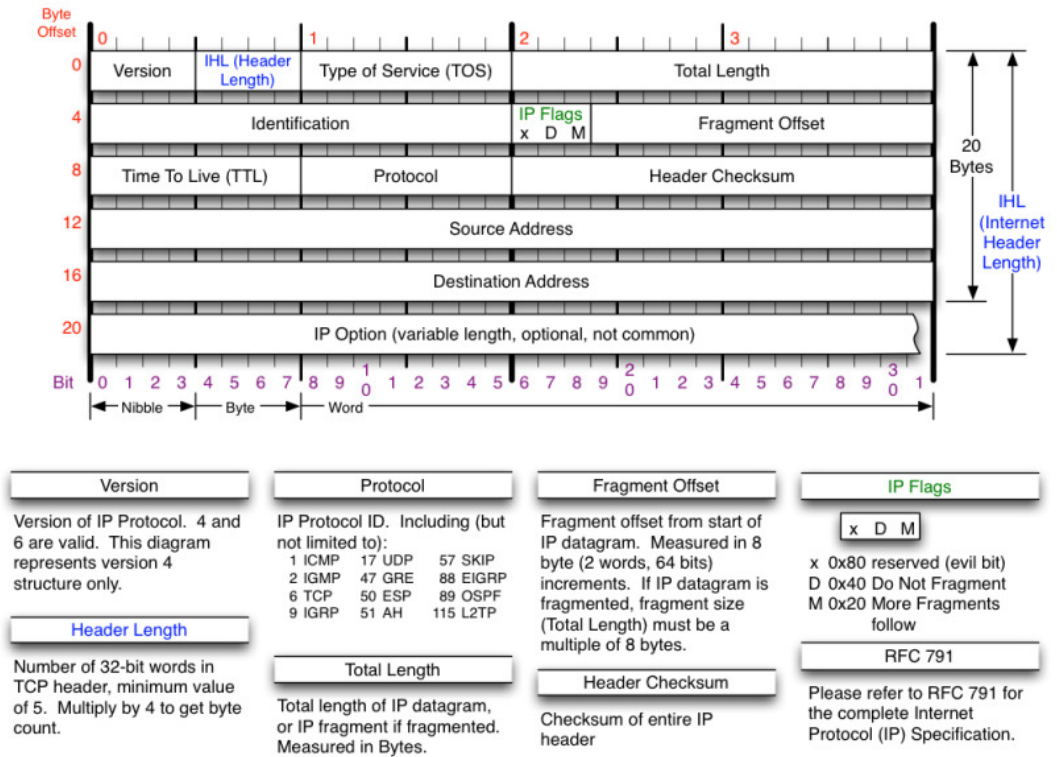


Figure 2. TCP header

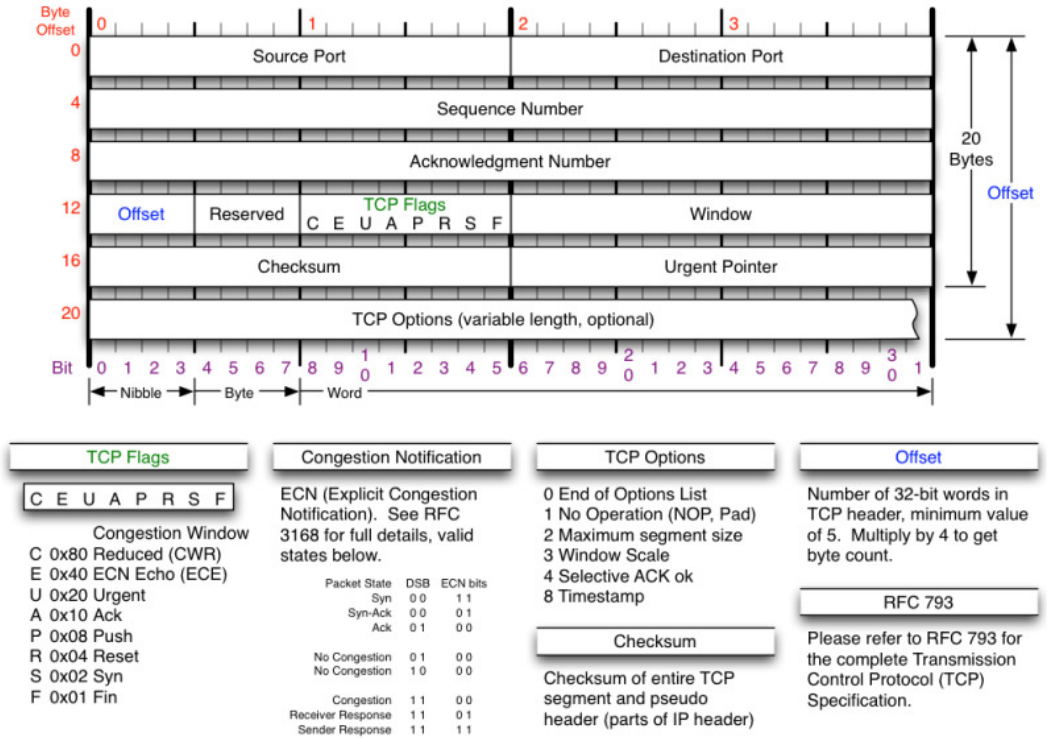


Figure 3. UDP header

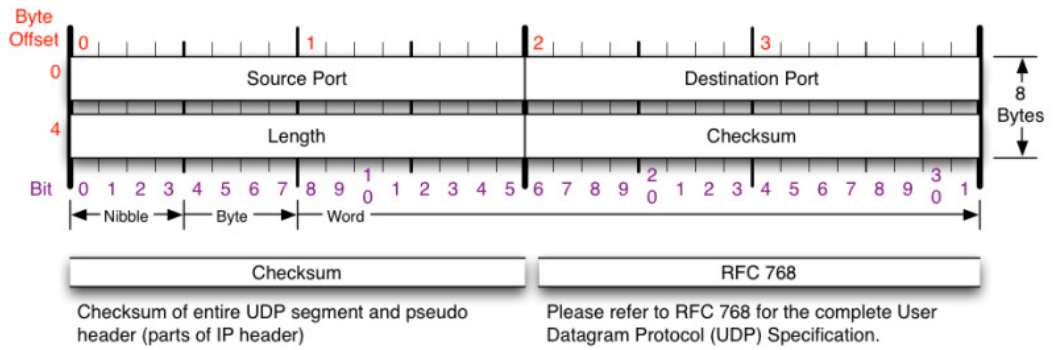
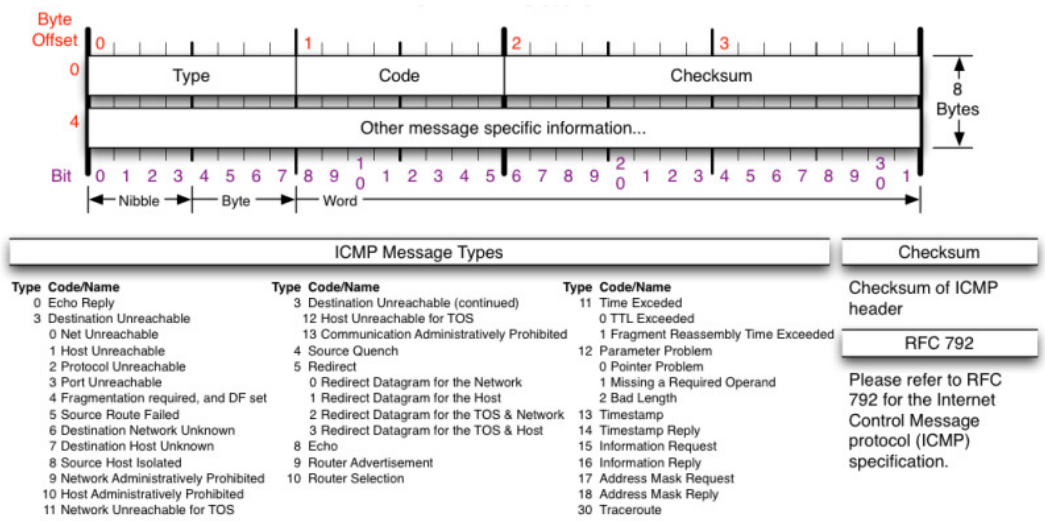


Figure 4. ICMP header



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