OIT 117: DATA COMMUNICATION AND NETWORKING 1

Lecture 3

Coverage

- Metric Units in Networking
- □ Key terms in computer networks

Metric Units in Networking

Exp.	Explicit	Prefix	Exp.	Explicit	Prefix
10 ⁻³	0.001	milli	10 ³	1,000	Kilo
10 ⁻⁶	0.000001	micro	10 ⁶	1,000,000	Mega
10 ⁻⁹	0.00000001	nano	10 ⁹	1,000,000,000	Giga
10 -12	0.00000000001	pico	10 ¹²	1,000,000,000,000	Tera
10 ⁻¹⁵	0.0000000000001	femto	10 ¹⁵	1,000,000,000,000	Peta
10 ⁻¹⁸	0.00000000000000001	atto	10 ¹⁸	1,000,000,000,000,000	Exa
10 ⁻²¹	0.00000000000000000000000001	zepto	10 ²¹	1,000,000,000,000,000,000	Zetta
10 -24	0.0000000000000000000000000000000000000	yocto	10 ²⁴	1,000,000,000,000,000,000,000	Yotta

Bit Calculation

```
1 is 1 bit
0 is 1 bit
4 bits = 1 nibble
8 bits = 1 byte
1024 bytes = 1 kilobyte
1024 kilobytes
                   = 1 megabyte
1024 megabytes
                   = 1 gigabyte
1024 gigabytes
                   = 1 terabyte
1024 terabytes
                   = 1 petabyte
1024 petabytes
                   = 1 exabyte
1024 exabytes
                   = 1 zettabyte
1024 zettabytes
                   = 1 yottabyte
```

Key terms

- □ Key terminologies
- http://www.wildpackets.com/resources/compendiu
 m/glossary of networking terms
- http://www.cisco.com/c/en/us/td/docs/solutions/V erticals/CPwE/CPwE DIG/CPwE appendixA.html
- https://www.howtogeek.com/191139/22-commonnetwork-jargon-terms-explained/