An Introduction to

Web

M.Madadyar

http://Madadyar.ir

Web Components

- ✓ **Clients and Servers**
- ✓ **Internet Service Providers**
- ✓ **Web Site Hosting Services**
- ✓ **Domains Names, URL's and Ips**
- ✓ **Registrars**
- ✓ **Protocols**

Clients & Servers

Clients (Browser)

- **Internet Explorer (IE)**
- **Firefox**
- Maxthon
- Netscape
- Opera
- Google Chrom
- Apple Safari

Servers (Web Servers)

- **Apache**
- **IIS (Microsoft)**
- JavaWebServer
- Tomcat

Internet Service Providers

Connect Clients to the Internet

- ISP
  - Phone Company
  - AOL
  - Earthlink
  - Verizone
  - NetZero

- Basic internet connection
  - Dialup/DSL/Cable/Sat
- Email

Web Hosting Services

Connects Web Sites to the Internet

- Computer (server)

- Web server software

- Firewall hardware and software

- IT services

    - (Backup/Restore,Troubleshooting, …)

- Disk space

- Bandwidth

- Email server with storage

Domain's URL's

- Domain name:
  - The specific address of a computer on the Internet
    - microsoft.com
- Uniform Resource Locator (URL):
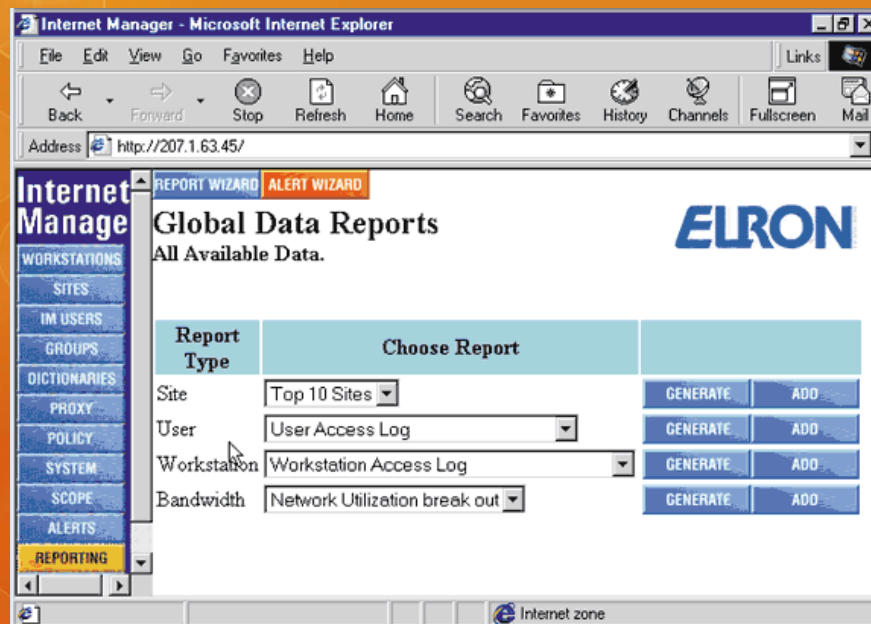 - http://www.microsoft.com/faqs.html

Domain Registrar

- A company that provides domain name registration services for a fee. (Like onlineNic, Nic.ir ...)

- Maintain database which maps domain names to IP's.

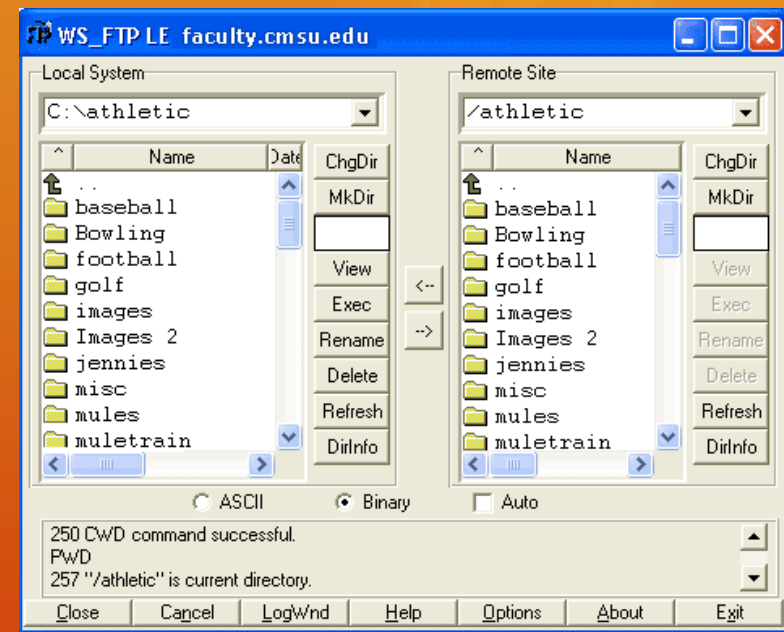- Propagate new domain name/IP address information across the internet.

Protocols

- HTTP *(Hyper Text Transfer Protocol)*

- FTP *(File Transfer Protocol)*

- SMTP *(Simple Mail Transfer Protocol)*

- POP3 *(Post Office Protocol V3)*

- IMAP*(Internet Message Access Protocol)*

- NNTP *(Network News Transfer Protocol)*

- ICMP *(Internet Control Message Protocol)*

- TCP *(Transmission Control Protocol)*

- IP *(Internet Protocol)*

Protocols Examples

HTTP

FTP

Creating a Web Site

1. Choose a domain name (Whois)

2. Register Domain with a Registrar

3. Choose a hosting service

4. **Create web content**

5. Store (publish) onto hosting server (FTP)

6. Submit new site to search engines

   ○ Google.com/addurl

Creating your Web Site
Technologies & Tools

- Markup Languages
  - HTML,XHTML, DHTML, XML, XSLT, etc....

- Cascading Style Sheets (CSS)

- Scripting languages
  - ASP.NET, ASP, JavaScript, PHP, etc....

- Web creation and editing software
  - Notepad, **RapidCSS**, FrontPage, Dreamweaver, **Visual Studio**, Site Builder, etc..