Features and Functionality of the Zeus
Web Server (An introduction)

Zeus and Zeus Lite
WEB SERVER

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Zeus Web Server (Features)

- High Performance HTTP engine
  - Leading Benchmark Performance
  - http/1.1 compliant
  - scalable architecture
  - virtual hosting and clustering for fault-tolerance and load balancing
  - small memory and footprint

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Zeus Web Server (Features con't)

- Web Application Development
  - Secure CGI/1.1 sandboxing
  - fastCGI support
  - centralized user and group management
  - java servlet, RMI and CORBA ORB support
  - JDBC database connectivity
  - content genration and authentication (distributed)
  - server side parsing (both static and dynamic)
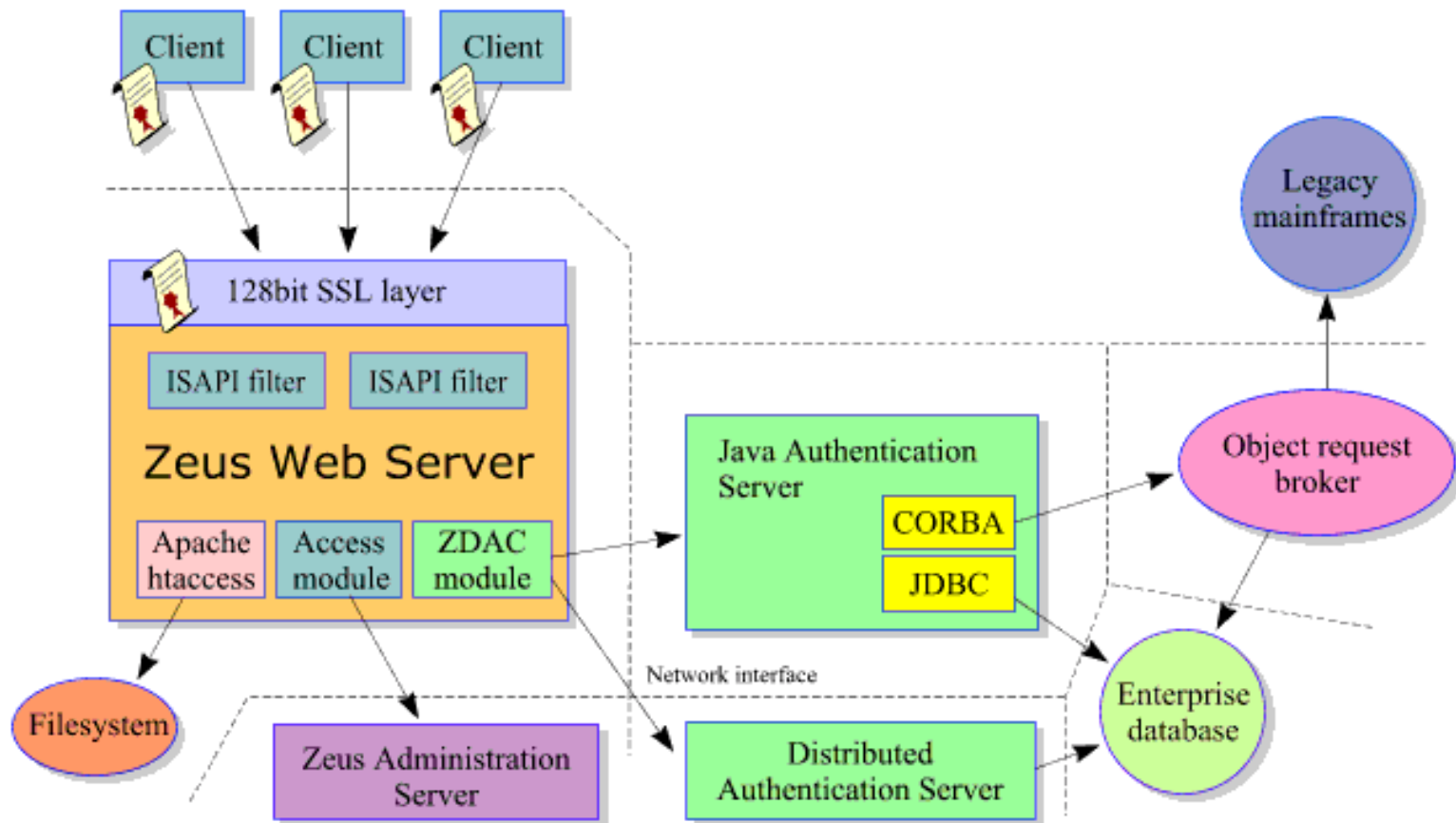
Web Application Development

Source: Zeus Technology (http://www.zeus.co.uk)
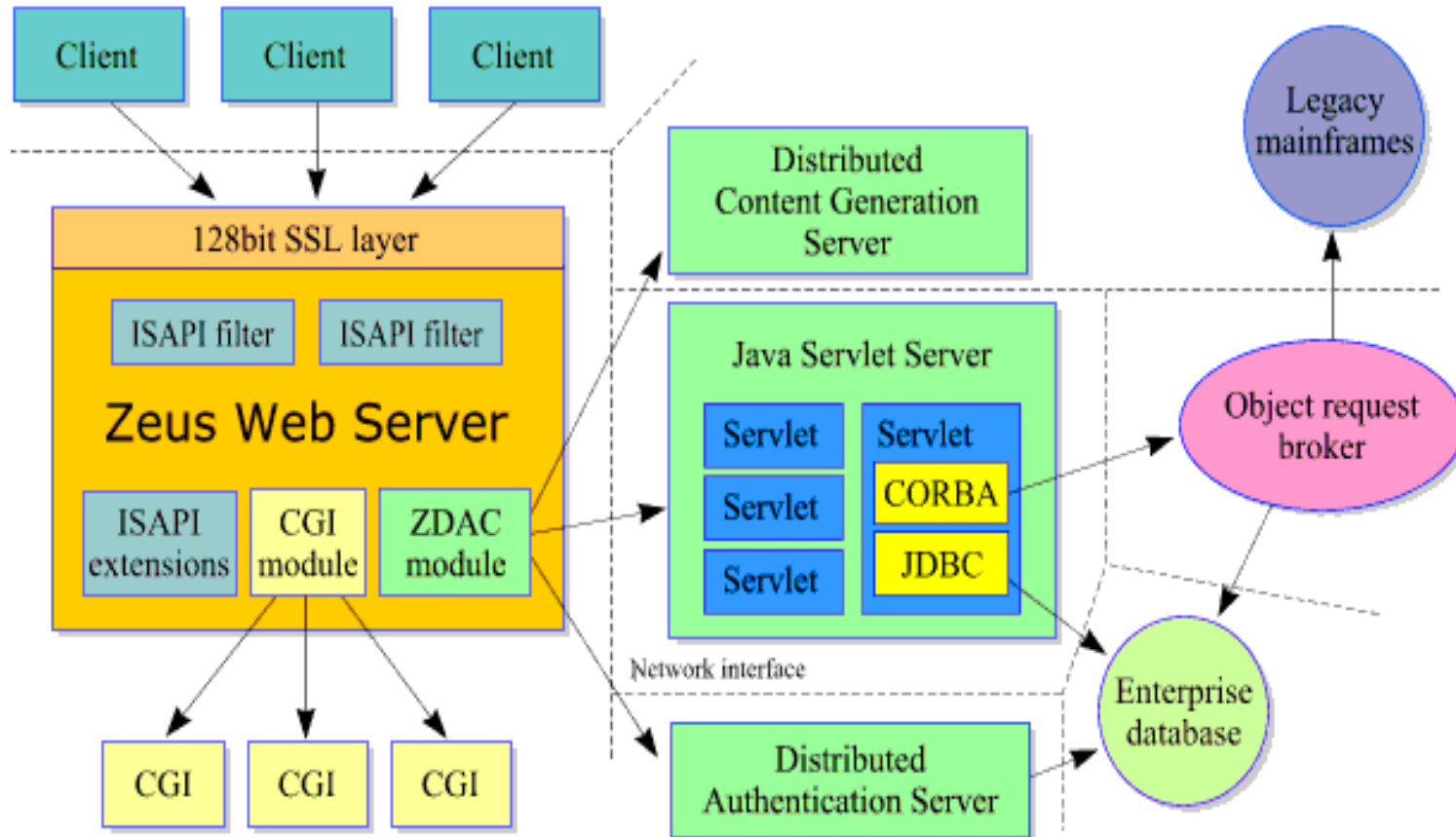
Zeus Web Server (Features con't)

- Security
  - 128 bit SSL 3 (worldwide)
  - client side x509 certificates
  - hardware encryption support

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Security Framework

Source: Zeus Technology (http://www.zeus.co.uk)

Zeus Web Server (Features con't)

- Management and Administration
    - Browser based management (graphical)
    - delegated management w/access control
    - centralized user and group management
    - configurations shared among servers
    - scriptable configuration tools for automation
    - help and documentation context sensitive

Zeus Web Server (Features con't)

- Authoring and Publishing
  - Microsoft FrontPage support
  - Netscape Gold support
  - Integrated Search Engine
- Apache Compatibility
  - .htaccess file support
  - logging

Zeus Web Server (Features con't)

- Virtual Server Support
    - independent virtual servers
    - separate administration of virtual servers
    - realtime statistics and graphs (web access)
    - delegation of administration
    - Bandwidth throttling per web site
    - Access Controls to the web sites

Web Servers (percent market usage)

- Apache (54.49)

- Microsoft IIS (23.78)

- Netscape (7.02)

- Zeus (2.07)

- thttpd (2.07)

- Note: Numbers are from the netcraft survey at http://www.netcraft.com/survey

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Zeus lite on HP-UX (A tour)

- What is Zeus lite?

- Where do you get it?

- How do you install it?

- What does it look like once it is installed?

- Where does it reside on HP-UX?

- What files exist and what do they do?

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What is Zeus Lite? (or What do I get with Zeus that I don't with Zeus Lite?)

- Zeus provides the following over Zeus Lite?

  - Unlimited Virtual Server Support
  - Clustering Support
  - 128 bit SSL worldwide
  - Real-time activity monitor
  - Advanced CGI security

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What is Zeus Lite? (con't) (or What do I get with Zeus that I don't with Zeus Lite?)

- Zeus provides the following over Zeus Lite?

    - FastCGI support

    - Integrated Search Engine

    - Website Throttling

    - LDAP Home Directories

    - miscellaneous features

Where do I get Zeus Lite

- www.software.hp.com
  - select Internet & Security (see note below)

- On the HP-UX Application CD

- Installation via a software depot

  - Note: Apache and Netscape Fastrack also available

Zeus on HP-UX

- File lay-out

      # cd /opt/zeus33lite

      # lsf

      admin/   perl/   stop-zeus*

      docroot-default/   rc.d   web/

      newconfig/   start-zeus*   webadmin/

Location of Log Files and Miscellaneous Information

- Log files
  - /opt/zeus33lite/admin/log/errors
  - /opt/zeus33lite/admin/log/access
  - /opt/zeus33lite/web/log/errors
  - /opt/zeus33lite/web/client_logging.********
  - /opt/zeus33lite/web/error_logging_log
- Administration Port:9090
  - default web administrator: admin
  - default user admin password: *****

M ore on logging

- Z eus uses a D F L og m odule
    - N eeds to be configured to log client requests
    - A utom atic R otation
    - Sharing logfiles am ong virtual servers
- D efinable Log Form at
- C om m on Log Form at
    - defacto standard based on N C SA server
    - host ident authuser date request status bytes
- Log A nalysis T ools

Configuration Files

- /opt/zeus33lite/webadmin/conf/sites
  - contains configuration information on web servers
- /opt/zeus33lite/web/runningsites/default
  - contains configuration information based on the "running" web servers
- /opt/zeus33lite/web/global.cfg
  - contains global configuration information
  - i.e. uid and gid (uid=daemon & gid=other)

Configuration Files

- /opt/zeus33lite/admin/website

  – selected file contents for website configuration

  modules!access!enabled yes

  modules!access!rules!0 !type deny

  modules!access!rules!0 !url /

  modules!access!rules!1 !groups!all

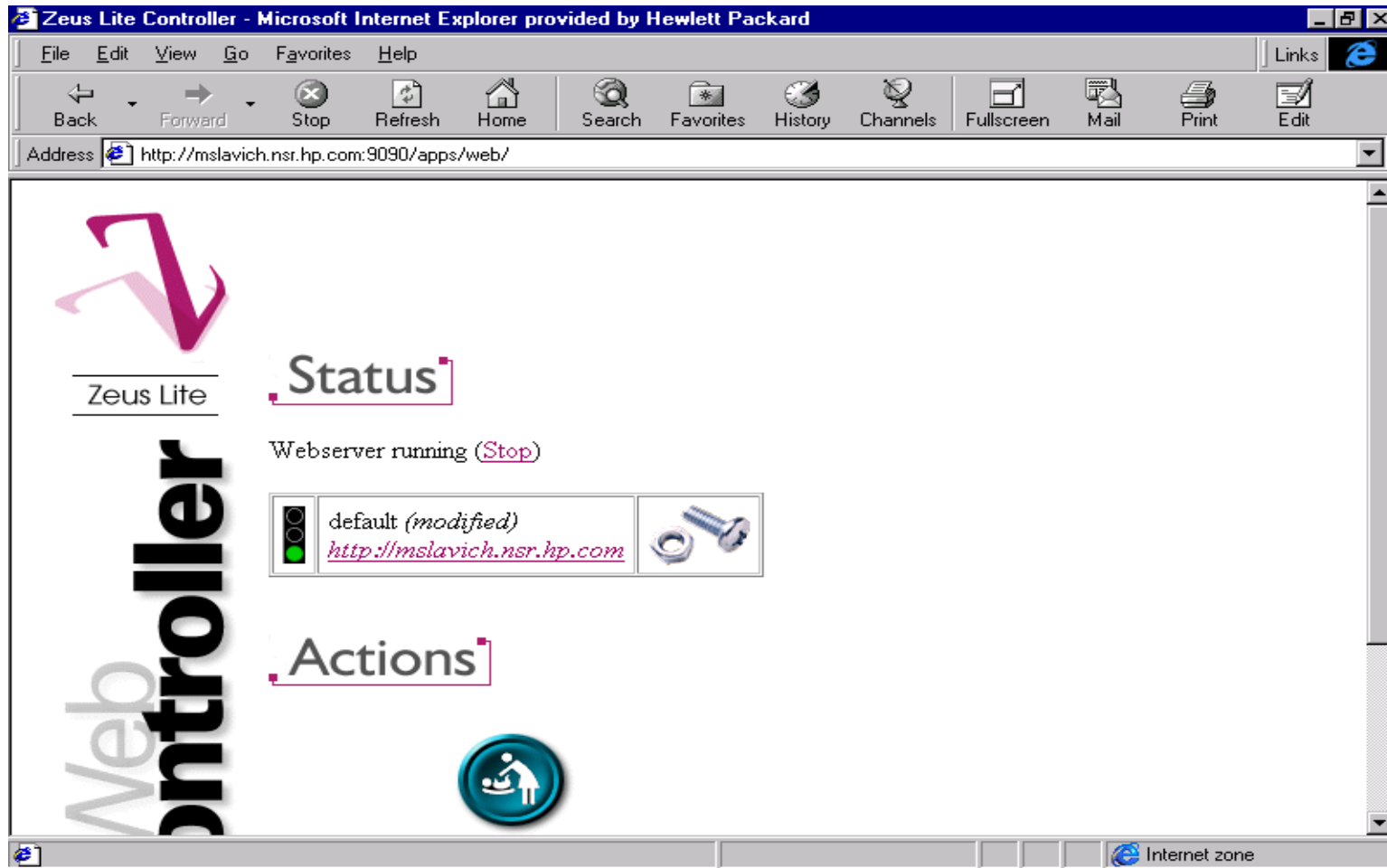 modules!access!rules!1 !type allow

  modules!access!rules!1 !url /

  modules!access!users!admin ISM vK X pX padD iU oO SoA fw w ==

  modules!cgi!allow anywhere yes
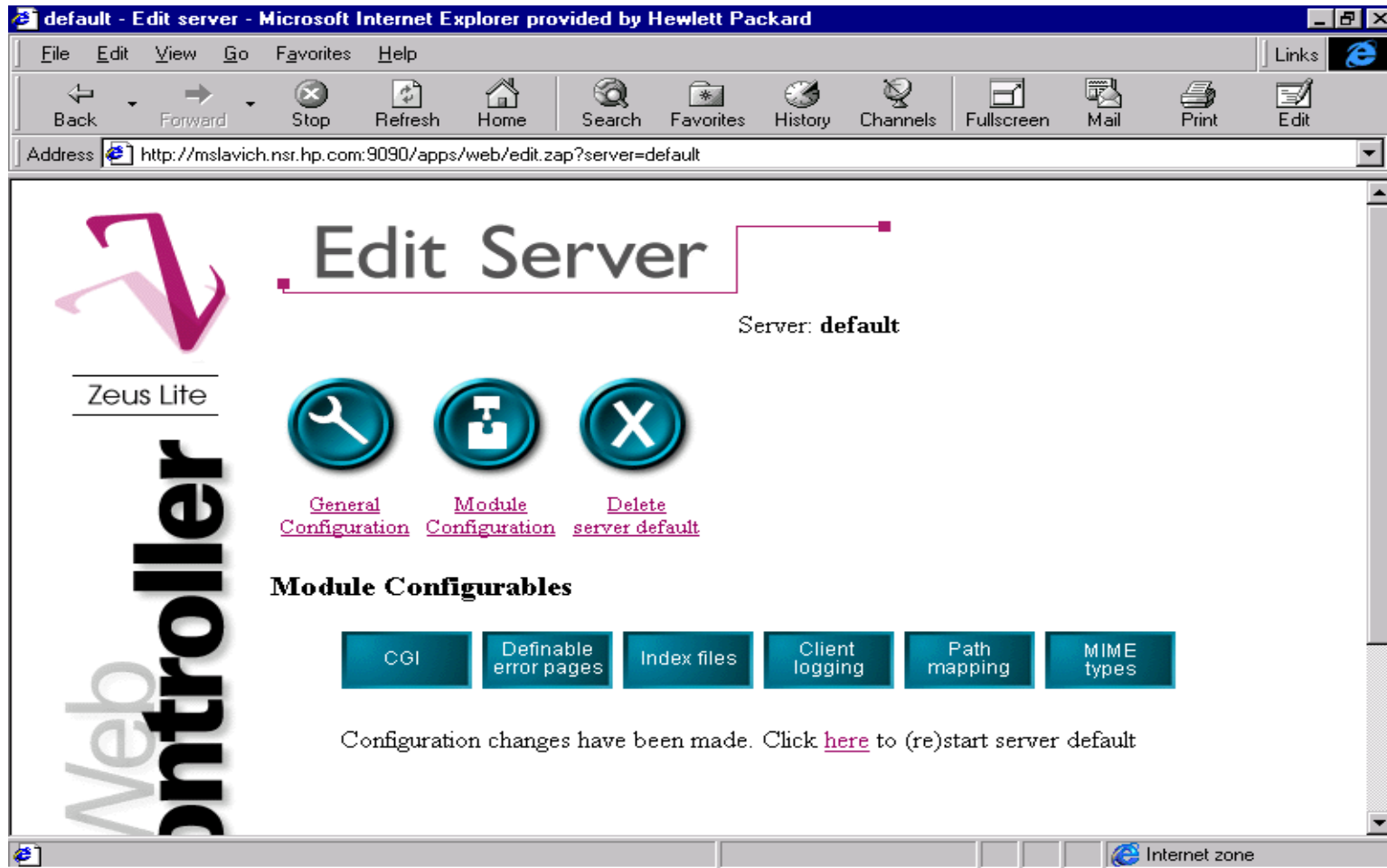
Zeus Administration Server
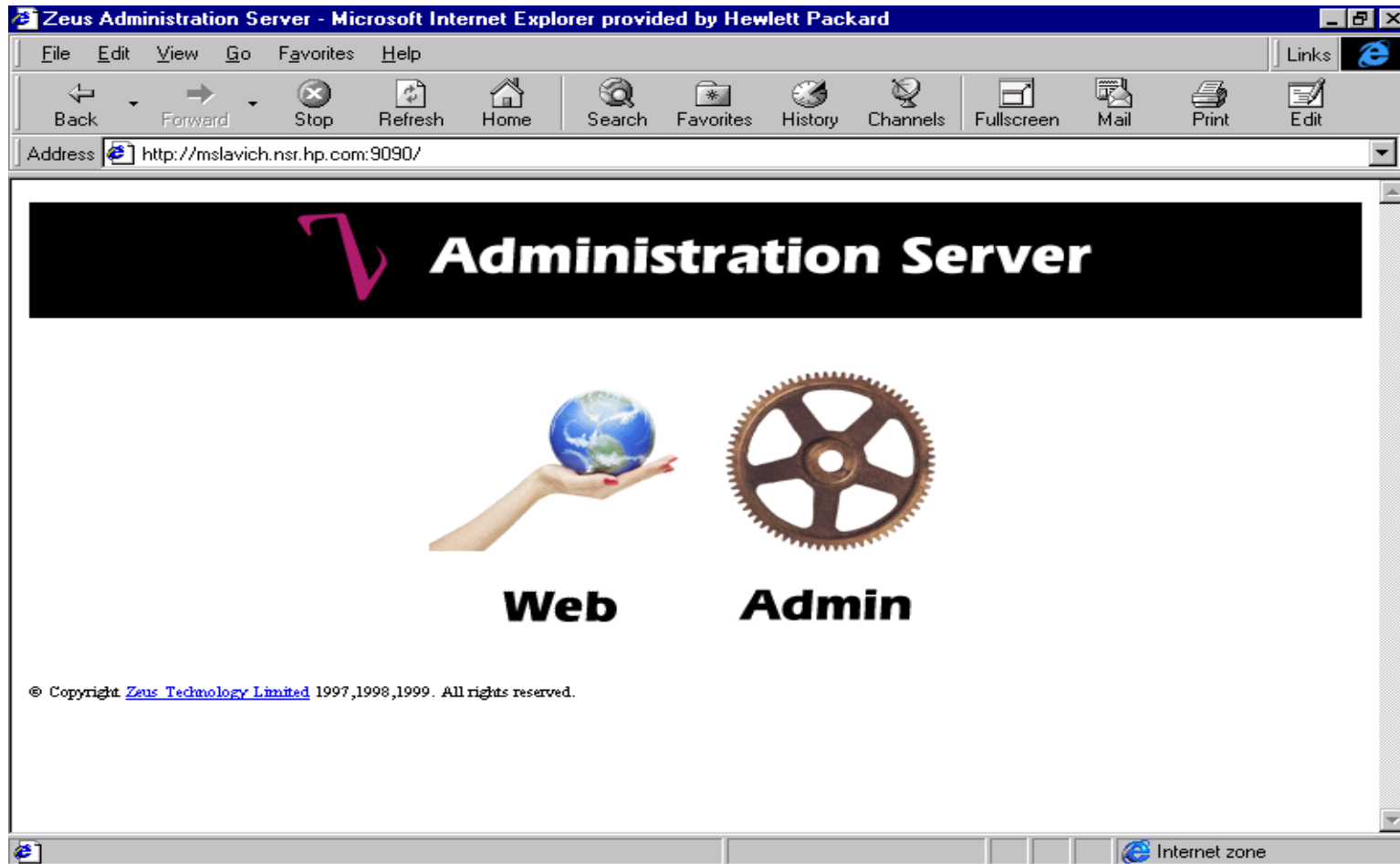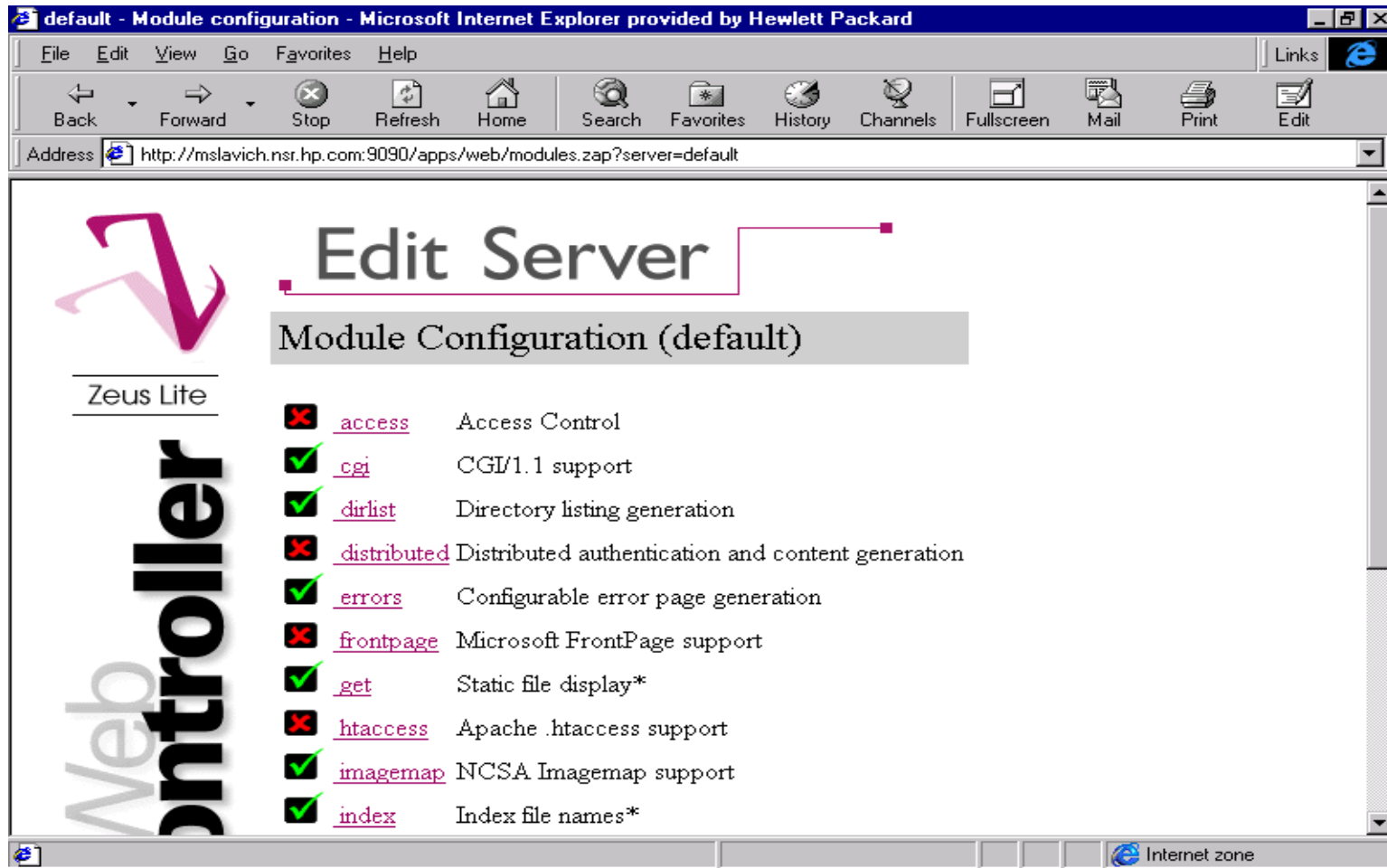
Zeus Administration: Web
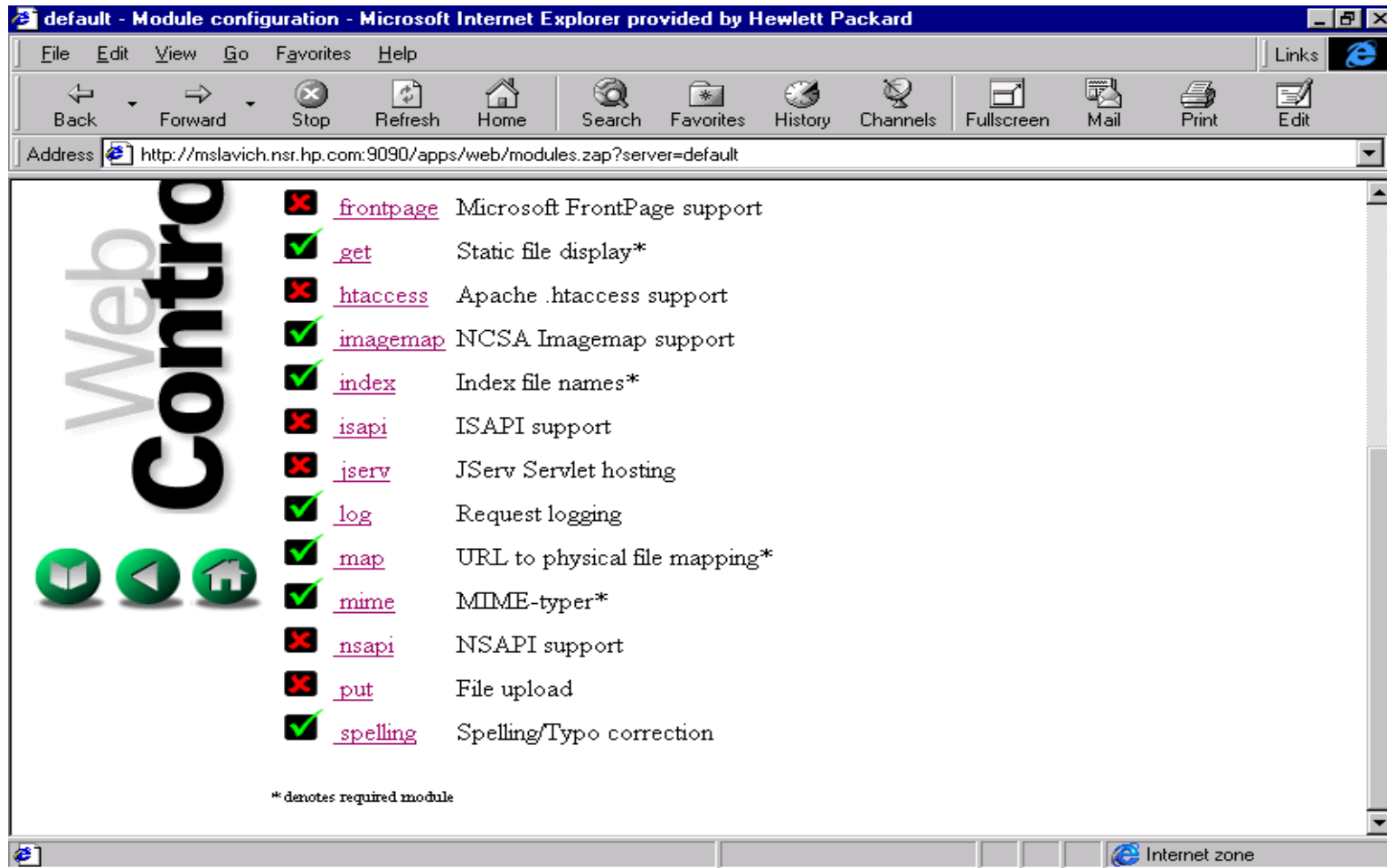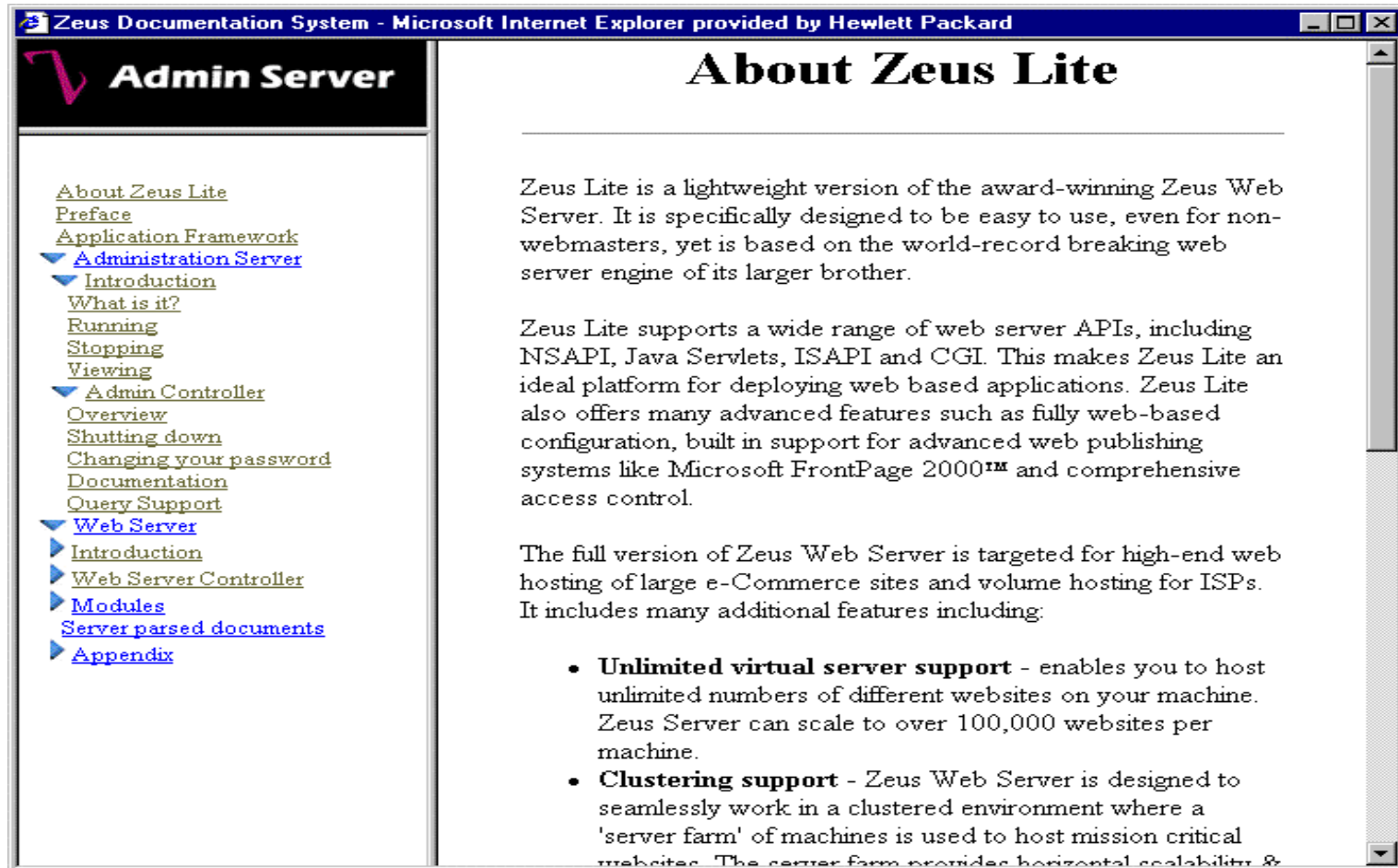
Nuts & Bolts = Edit Server

Edit Server

Module Configuration (example)

- access Access Control
  - Current Rules:
    - url; allow/deny; host/ip address; user/group
  - User Management:
    - Internal database and/or LDAP; user/group management; logging options

Edit Server (cont)

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Zeus on-line documentation

Zeus on-line documentation

So why Zeus or Zeus Lite?

- Zeus Lite (It's Free on HP-UX)
- Zeus and/or Zeus Lite
  - Performance
  - Small Footprint
  - Features and Functionality
  - Ease of install and administration
  - Complete on-line documentation

More Information About ZEUS

- www.zeus.co.uk

- www.zeustech.net

- www.software.hp.com
  - select Internet & Security

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