

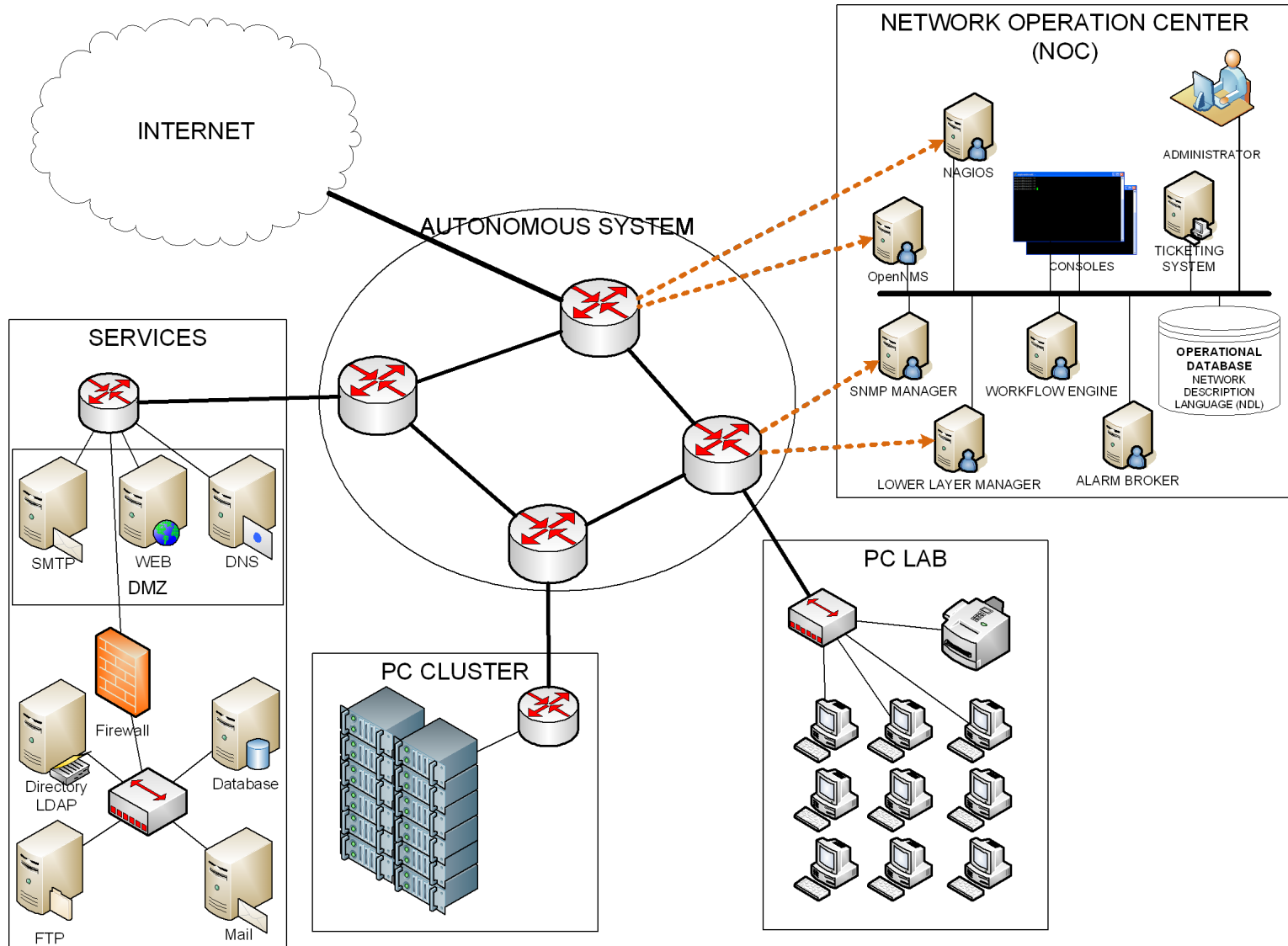
# Ολοκληρωμένα Εργαλεία Διαχείρισης

Εργαστήριο Διαχείρισης Δικτύων

# Εργαλεία Διαχείρισης

- ping
- traceroute
- tcpdump
  - wireshark
- nmap
- net-snmp
  - snmpget
  - Snmpwalk
- MRTG
  - RRDtool

# Network Operation Center

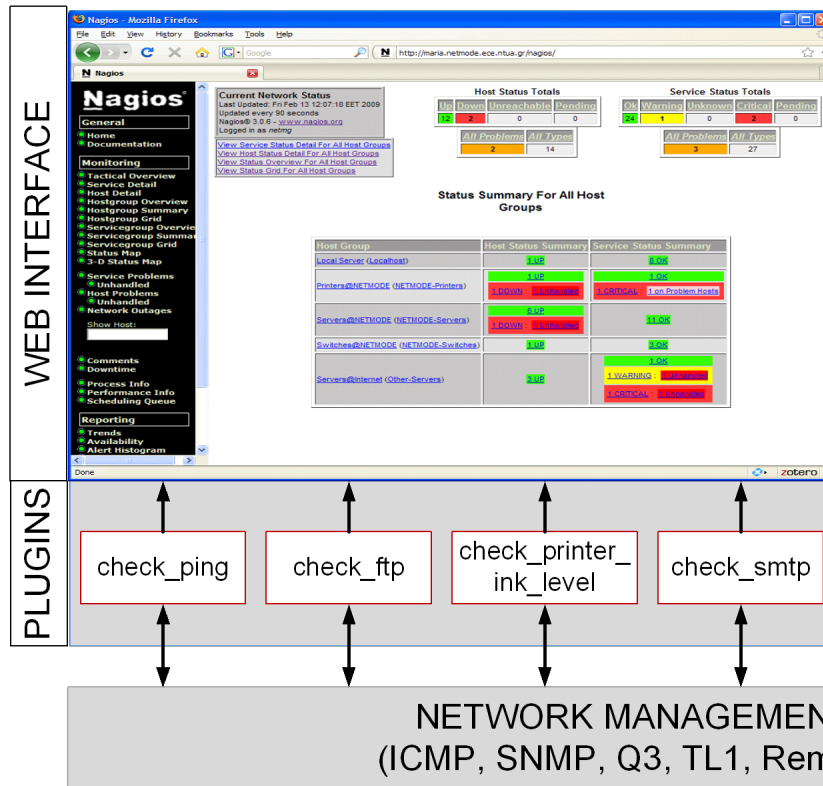


# Ολοκληρωμένα Εργαλεία

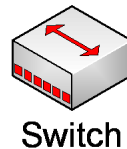
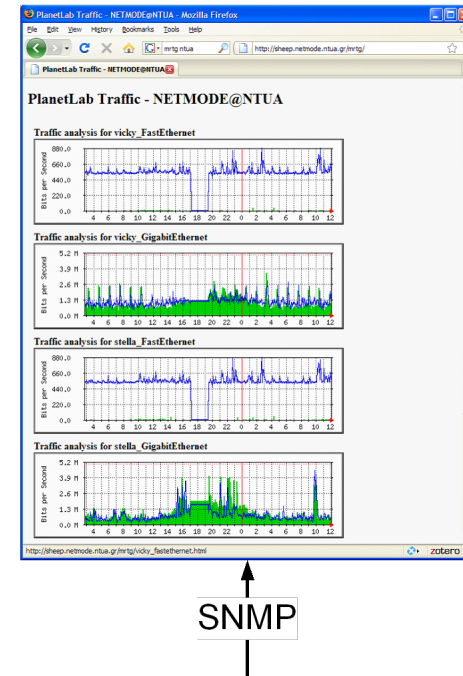
- Αυτοματοποιούν διαδικασίες
- Ομαδοποιούν λειτουργίες
- Open Source
  - Nagios – Service Monitoring
  - OpenNMS – Network Monitoring
  - Ganglia – Cluster Management
- Commercial
  - HP Openview
  - IBM Tivoli

# Management Platforms

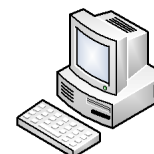
## NAGIOS



## MRTG



.....



# Nagios Plugins

Plugin Return Code	Service State	Host State
0	OK	UP
1	WARNING	UP or DOWN/UNREACHABLE
2	CRITICAL	DOWN/UNREACHABLE
3	UNKNOWN	DOWN/UNREACHABLE

RETURN CODE | TEXT OUTPUT |  
OPTIONAL PERFDATA | LONG TEXT LINE ... | PERFDATA ...

0 | PING OK - Packet loss = 0%, RTA = 0.15 ms

0 | DISK OK - free space: / 3326 MB (56%); | /=2643MB;5948;5958;0;5968

# Plugin Examples

- check\_http
- check\_snmp
- check\_icmp
- check\_ntp
- check\_ifoperstatus
- check\_mrtg
- check\_ssh
- check\_ifstatus
- check\_ntp\_time
- check\_imap
- check\_ups
- check\_ftp

`check_ping -H <host> -w <wrta>,<wpl>% -c <crta>,<cpl>%`