

A man in a white shirt and red tie is holding a large red pipe over a colorful landscape. The landscape is divided into sections of blue, yellow, and green. The man is standing on a blue section, and the pipe is arching over the yellow and green sections. The background is a textured, light blue wall.

ENSTINET ..

Bridging S&T Community

Majid M.AISadek
Cairo - 2011

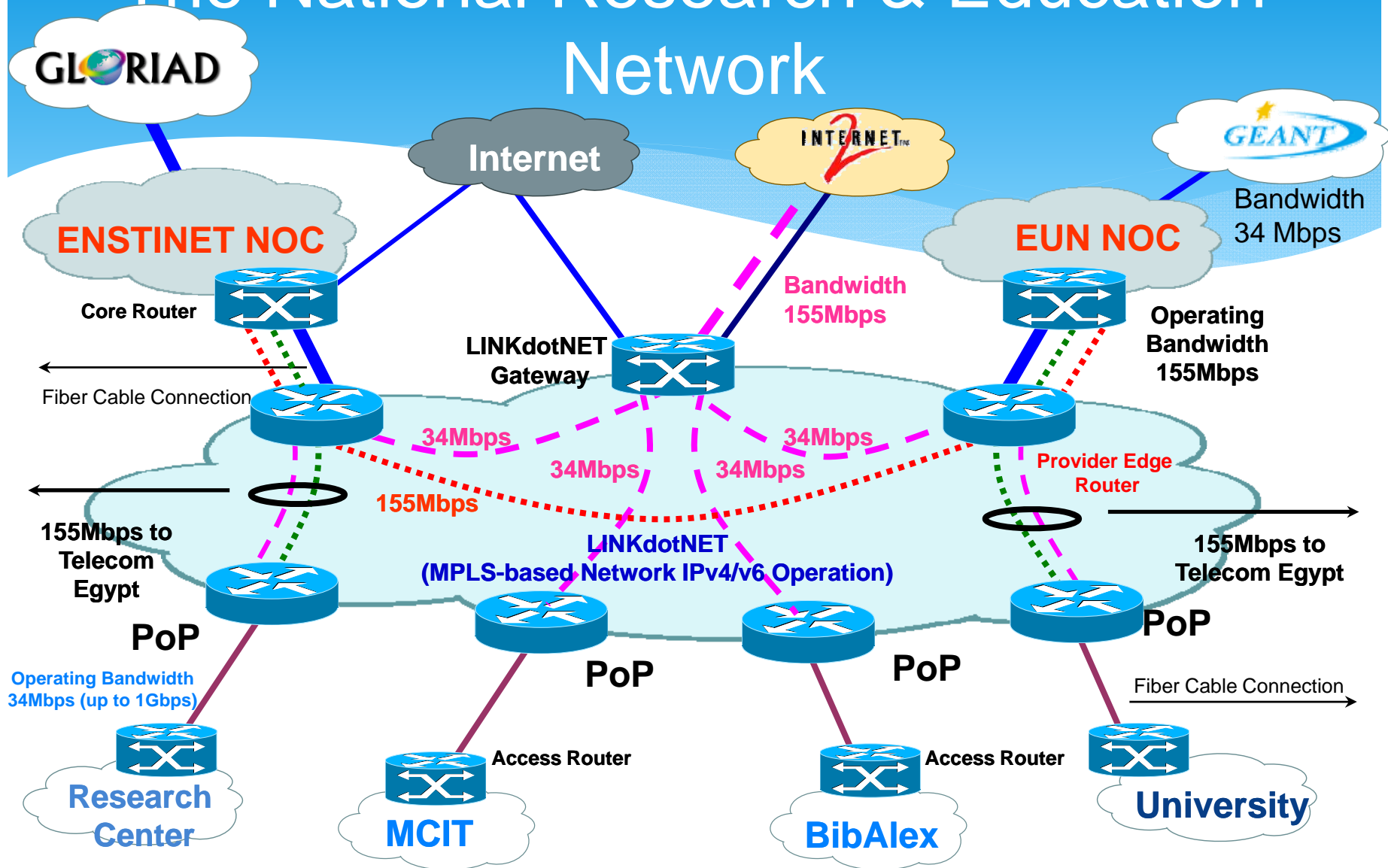
Agenda

- * Network Topology
- * Network Infrastructure
- * Network Monitoring
- * High Bandwidth Applications
- * E-Content Portal

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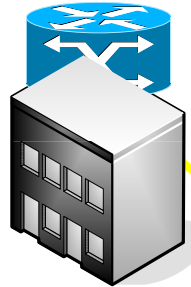
The National Research & Education Network



Research Institutes I

ENSTINET NOC

Access Router



Operating Bandwidth
E3/T3/STM1

Mubarak City for Research

Borg El-Arab

Provider Edge Router

Operating Bandwidth
nT3/nSTM1

Single Fiber Cable
Connection (24 Core)

Core Router



Provider Edge Router

Data Carrier Network
(MPLS-based Network)

Dokki



Single Fiber Cable
Connection (12 Core)

Access Router



National Research Center

Dokki



Electronics Research Institute

Maruotiya



National Institute For Standards

Nozha



National Authority for Remote Sensing

Helwan



National Research Institute for Astronomy & Geophysics

Tebien



Center of Metallurgy Research Institute

Research Institute II

ENSTINET NOC

Core Router

Operating Bandwidth
nT3/nSTM1

Single Fiber Cable
Connection (24 Core)

ENSTINET Data Network
(MPLS-based Network)

Provider Edge
Router

Nasr1

Copper Wire to
Telecom Egypt

Access Router

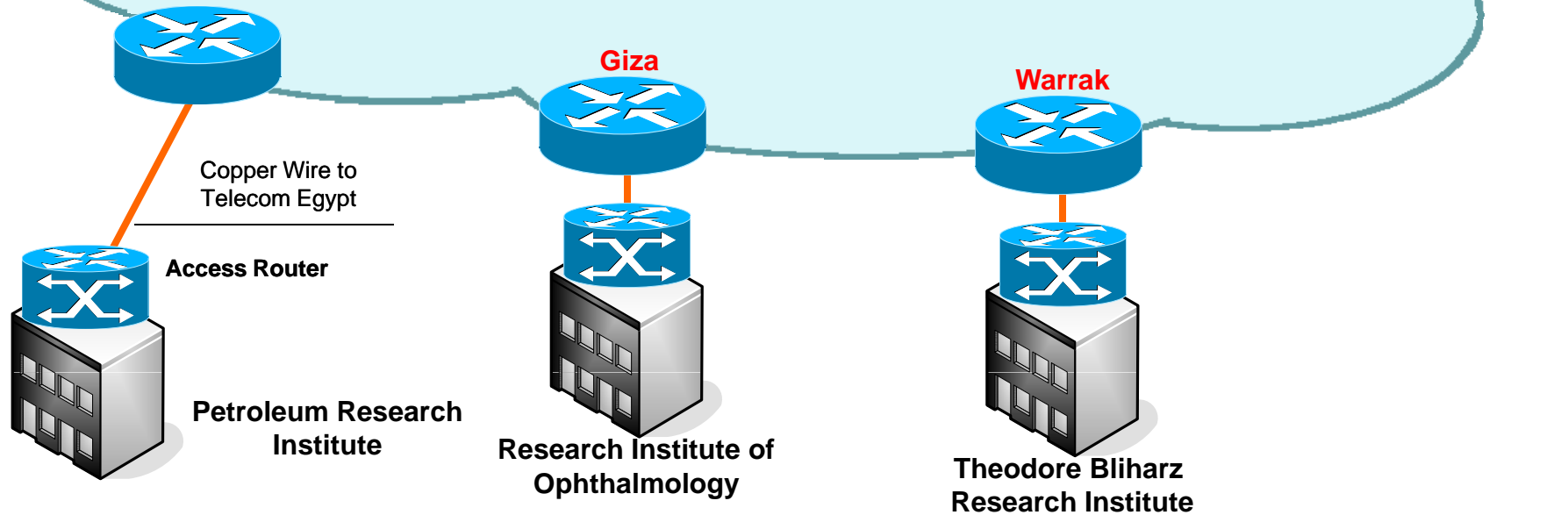
Petroleum Research
Institute

Giza

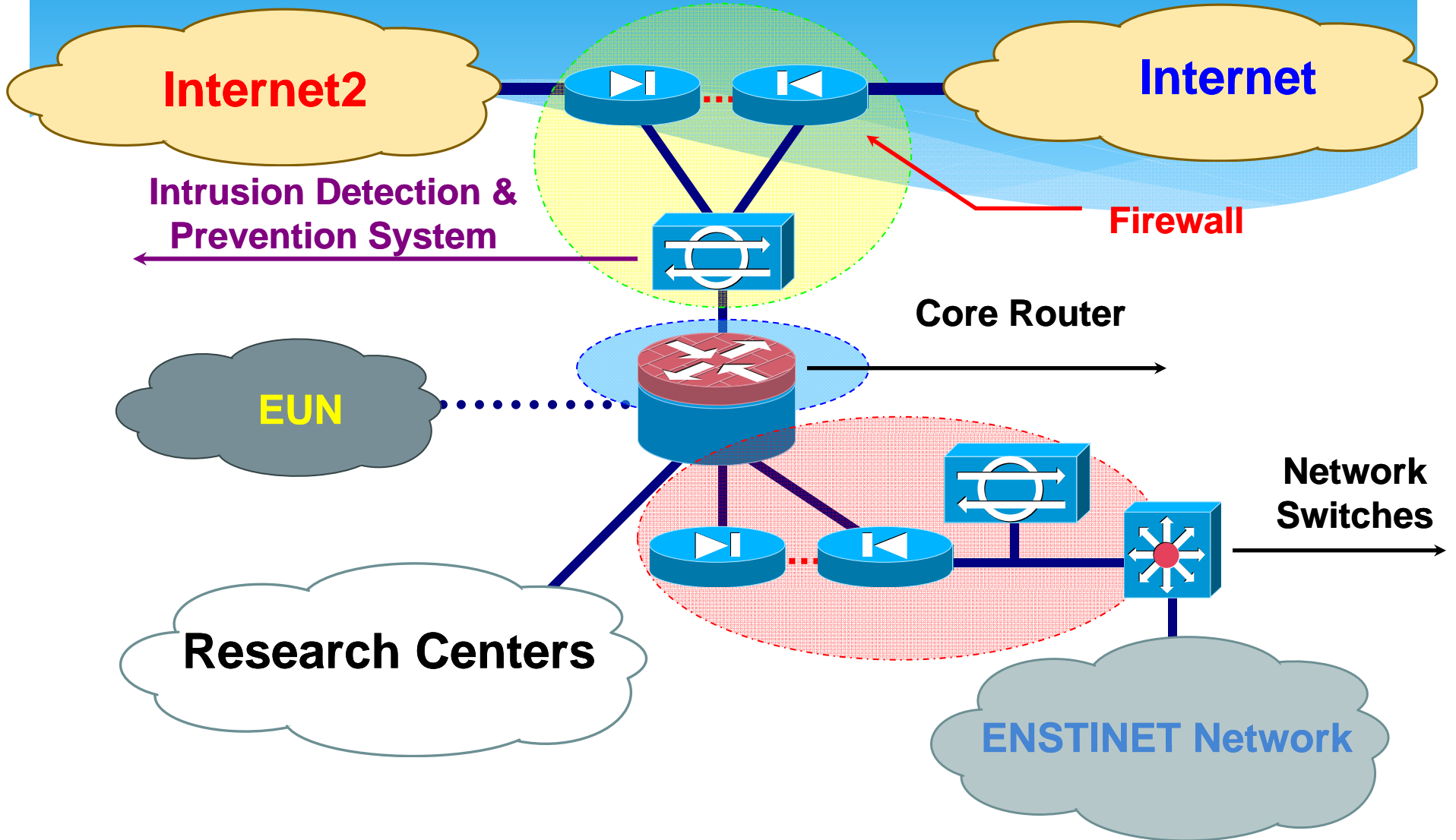
Research Institute of
Ophthalmology

Warrak

Theodore Bliharz
Research Institute



ENSTINET Network Security



Agenda

- * Network Topology
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Network Infrastructure

- * 30 Edge router Juniper **M10i**
- * 2 Core routers Juniper **M40e**
- * 32 Core Switch Foundry **BigIron 15000**
- * Powerful Security Solution based on multi-vendor support.
- * Network management tools

Network Capabilities

- * GbE connectivity
- * 10 GE ready
- * High Performance Network Equipment
- * Fully Redundant Routers and Switches
- * IPv6 rich feature set, dual stack support
- * MPLS enabled, with Multicast capabilities
- * Advanced QoS mechanism

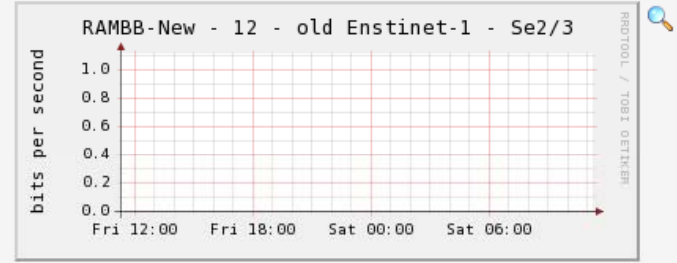
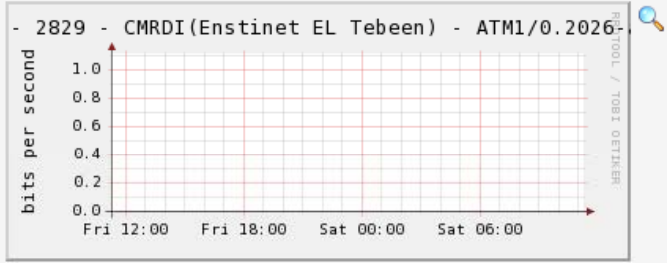
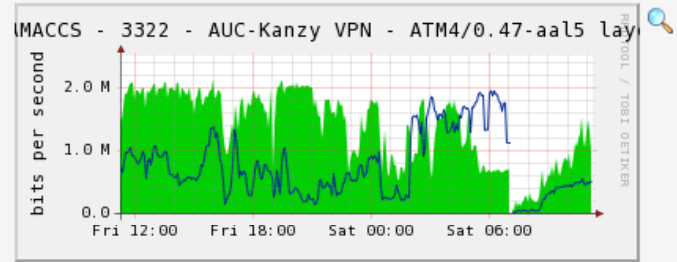
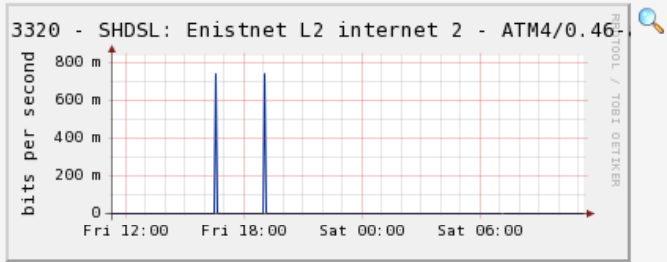
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- * Network Topology
- * Research Centers Network Projects
- * **Network Monitoring**
- * High Bandwidth Applications
- * E-Content Portal

Filter by host:

Presets: From: To:

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RAMBB-New - 14 - Old Enstinet-2 - Se2/5

C-C-EG - 127 - Enstinet - EUN VPN - ATM4/0.512-aa

Agenda

- Network Topology
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- E-Content Portal

Network Ready Research Projects

* High Performance Computing

- * Activating CERN node at the Academy of Scientific Research & Technology.

* Collaboration with African Countries

- * Establishing the first Egyptian GOLE and availing it for African Countries, (Sudan, and Kenya, etc)

* Content Delivery

- * Global access to Egyptian S&T literature.
- * S&T Content Delivery, from international repositories and databases.

* Medical Applications

- * Telemedicine (Tele-surgery, Tele-radiology, Tele-pathology ..etc), National Institute for Tropical Medicine and Liver Diseases.

* Applied Sciences

- * Genetics Engineering
- * Biotechnology Applications
- * Nanotechnology Applications, National Center for Nanotechnology.

Collaborative Research Work

- Virtual R&E Community

- Virtual reality applications
- Virtual Universities
- Virtual Labs
- Cross-cultural understanding through Distributed Virtual Environment (DVE).



Agenda

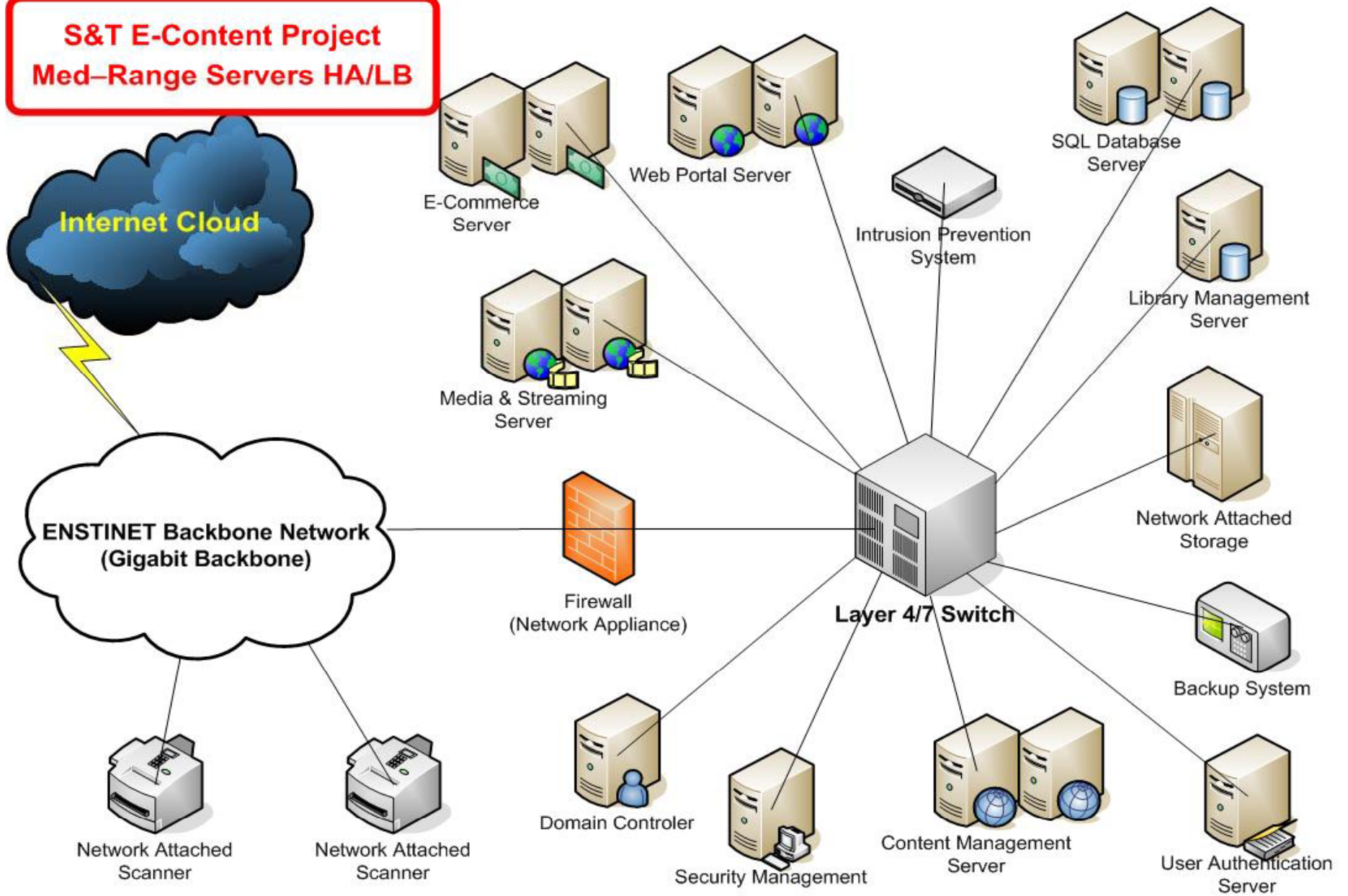
- * Network Topology
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- * **E-Content Portal**
 - * E-Content Infrastructure
 - * Portal

The Egyptian S&T Portal

The image displays a collage of screenshots from the Egyptian Science and Technology Portal website. The main header features the title "The Egyptian Science and Technology Portal" and a search bar. Below the header, there are several sections:

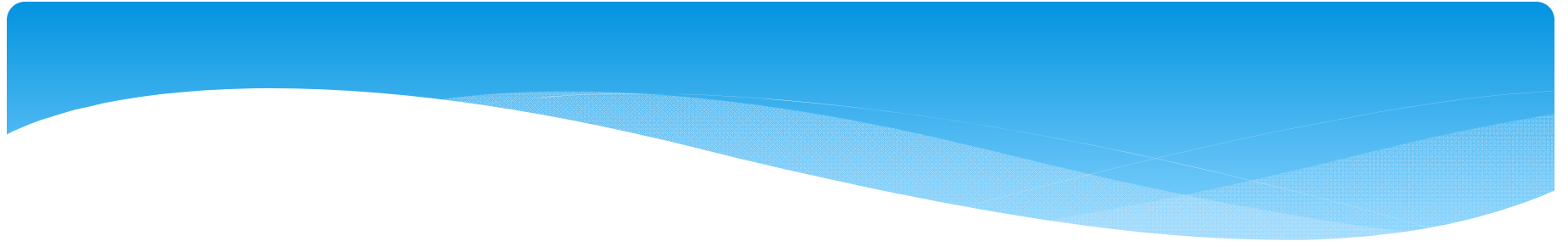
- Welcome to The Egyptian Science and Technology Portal:** A central banner with a search bar and a "Welcome Ali" message.
- Categories:** A sidebar menu with options like Home, Research, Publications & Media, S&T National Initiatives, Awards & Grants, International Cooperation, News, Hot Topics, and Calendar of Events.
- Public Health Program Brochure:** A section titled "Public Health Program Brochure" with a sub-header "Life Leaves Subtle Signature on Lay of the Land".
- Nuclear Energy:** A section titled "Special Report Nuclear Energy" with a sub-header "Life Leaves Subtle Signature on Lay of the Land".
- News:** A section with a sub-header "Multimedia Training DVDs now available!" and "Perspectives Competition is Open for Applications".
- Events:** A section with a sub-header "Center for Precision Metrology" and "2006 Spring Engineering Advisory Committee".
- Awards & Grants:** A section with a sub-header "Research Professorships" and "Principal Investigator Programme Grant".
- Book Reviews:** A section with a sub-header "The Fire in the Equations" and "At least since the Catholic Church forced Galileo to renounce Copernicanism, scientists and religionists have eyed one another with suspicion...".
- Footer:** A navigation bar with links for Home, About Us, Sitemap, Feedback, Contact Us, FAQs, and Help / User Guide.

**S&T E-Content Project
Med-Range Servers HA/LB**



Sample of Databases addressed Egyptian S&T Portal “first phase”

- S&T Organization
- S&T Experts
- S&T News
- Egyptian Directory of periodicals.
- Union List of catalog
- S&T Equipment
- S&T Prizes and Awards
- Women S&T
- S&T Full-Text.



Thank you