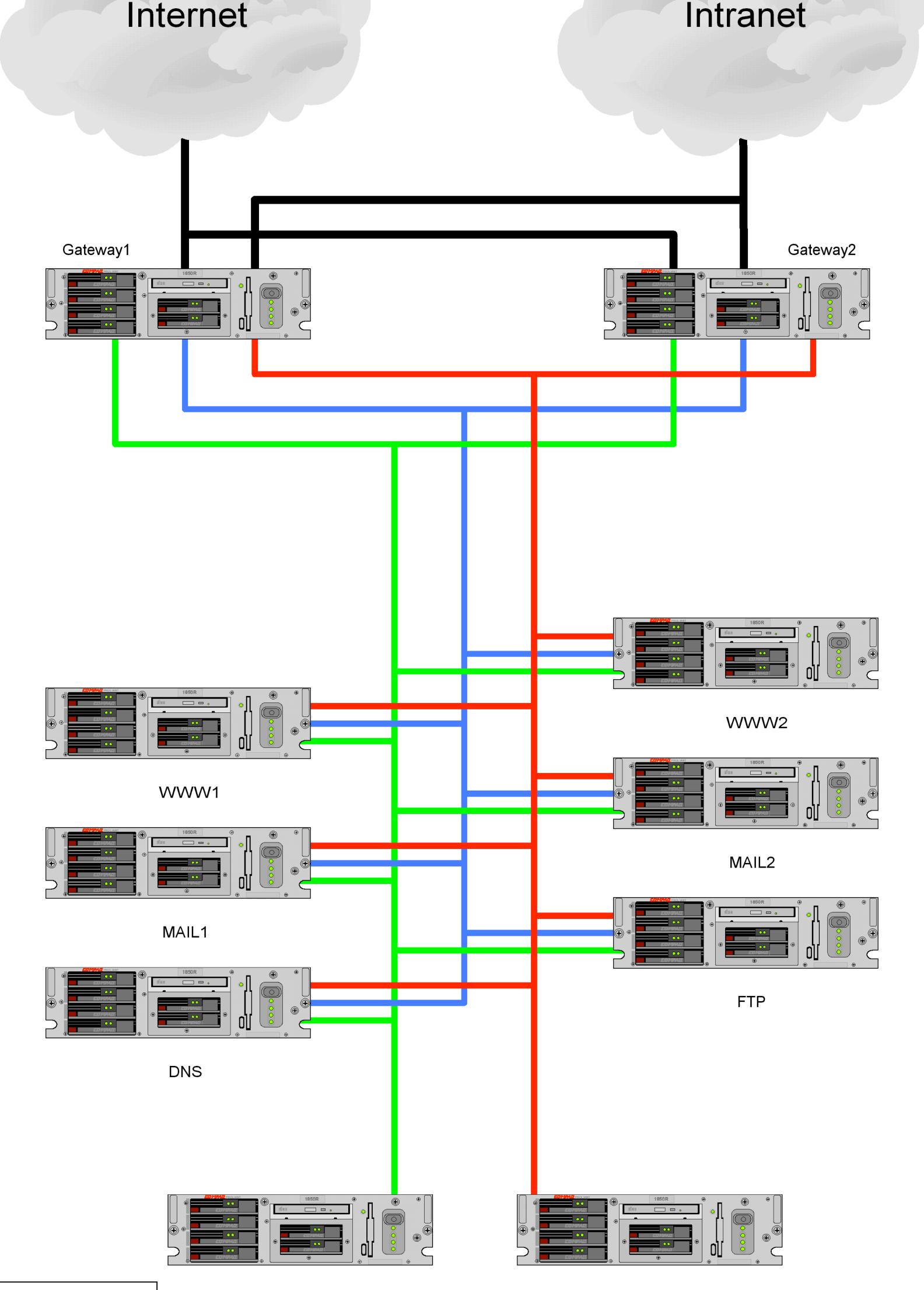


The Poly² Project (Poly-Computer * Poly-Network)

Design Goals

 Modularity •Fault Tolerance •Scalability Service Isolation Least Privilege Economy of Mechanism Least Common Mechanism •Defense in Depth



Implementation

•Commodity Hardware Application Specific O/S Customized Kernel Separation of Internal Traffic •Stripped Library Calls Minimal Software

 Improved Performance •Data Diode Attack Isolation Intrusion/Anomaly Detection •Forensics •High Availability

Impact

Evaluation

•Metrics-based assessment of assurance in comparison with:

•Virtualized server architecture (SODA) Traditional server architecture

Phases

- Default O/S 2) System Profiling
- 3) Multi-system
- 4) **Reduced Libraries**
- 5) **Reduced Kernel**
- 6) Burn to CD

PURDUE

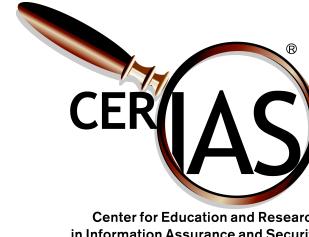
UNIVERSITY



Admin System

Security System

http://www.cerias.purdue.edu/homes/poly2/



in Information Assurance and Security

