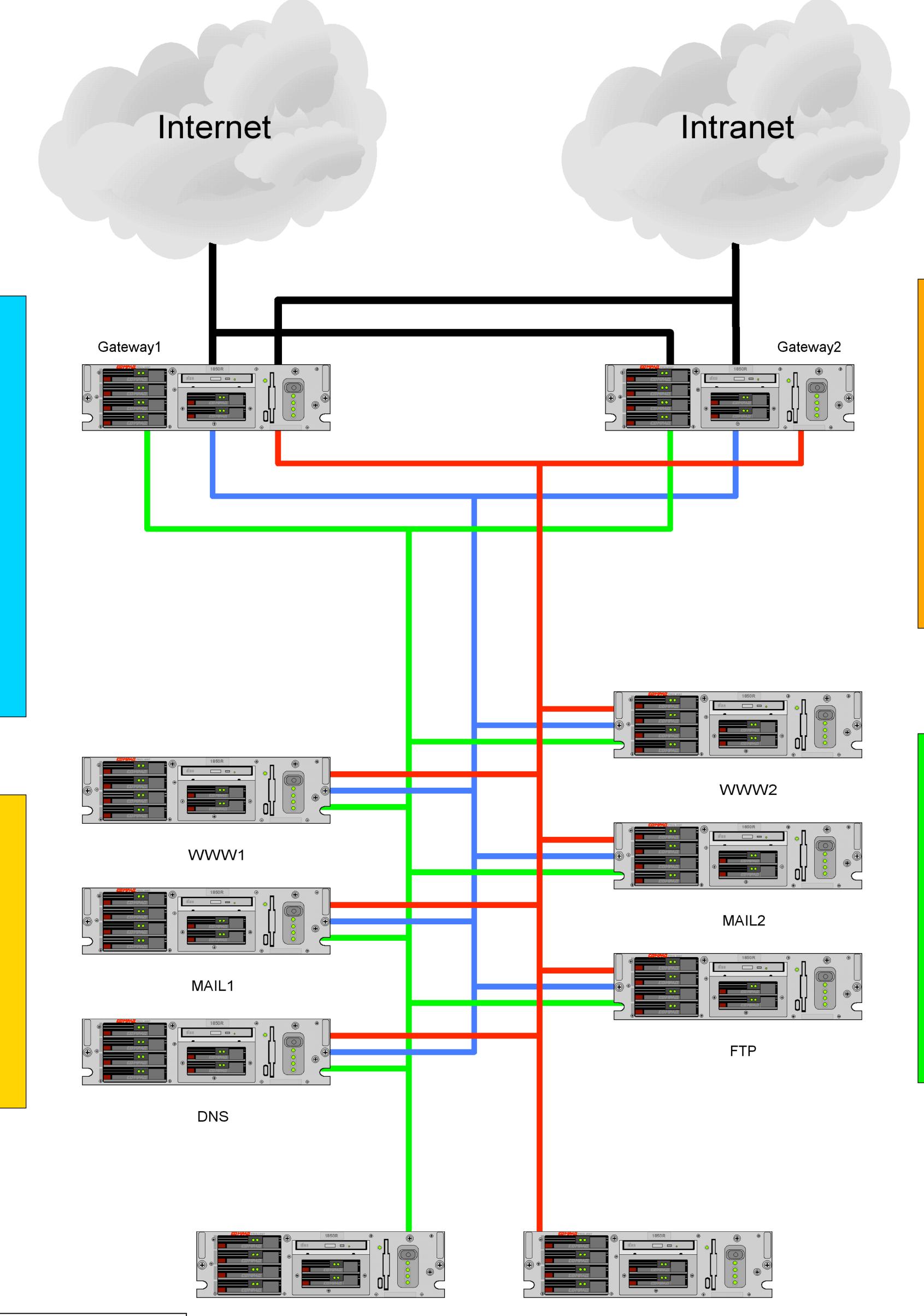


# The Poly<sup>2</sup> Project (Poly-Computer \* Poly-Network)



#### Implementation

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

## **Design Goals**

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

#### **Phases**

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

6)

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



Admin System

Security System

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

