To create a secure and fault-tolerant server architecture using established security design principles.

Benefits
- Scalability
- Defense in Depth
- High Availability
- Improved Performance
- Attack Isolation
- Intrusion/Anomaly Detection
- Forensics

Design Principles
- Economy of Mechanism
- Least Privilege
- Separation of Privilege
- Complete Mediation
- Fail-Safe Defaults
- Least Common Mechanism
- Open Design
- Psychological Acceptability

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

Project Tasks
- Hardware Installation (underway)
- Server Image Creation
- Server Image Management (OSCAR)
- Trusted Boot (SALIVATE)
- Reduction Process and Tools
- Automated Provisioning
- Security Metrics

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