CY 2003 Architectural Enhancements

Ramifications for Summer deployment

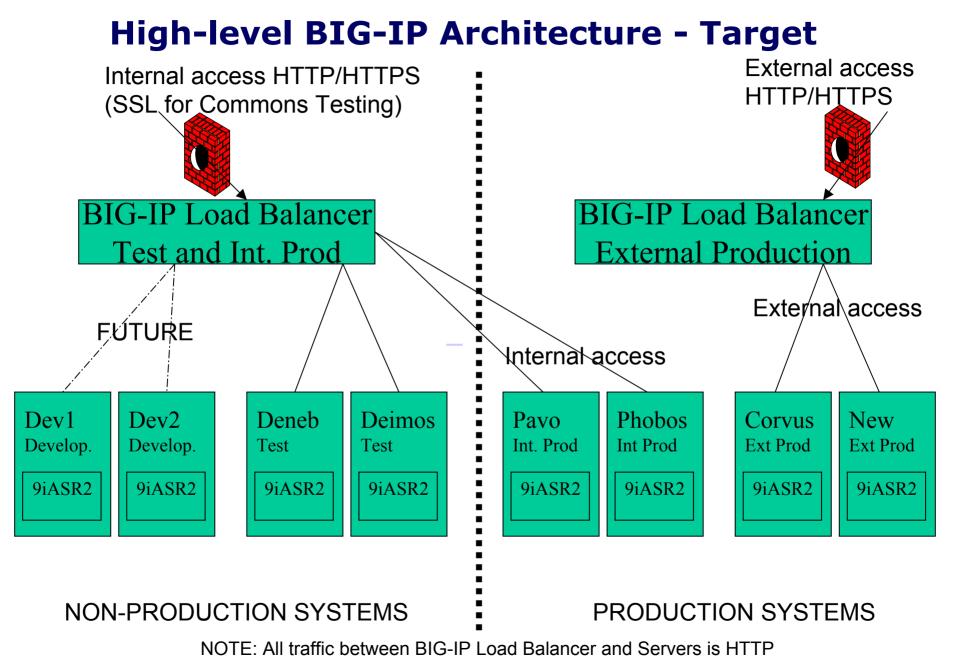


March 4, 2003



Technology Goals

- Objective: scale to meet increasing demand
- Technology: Load Balancing
- Objective: provide consistent availability
- Technology: Transparent failover



Technology Priorities

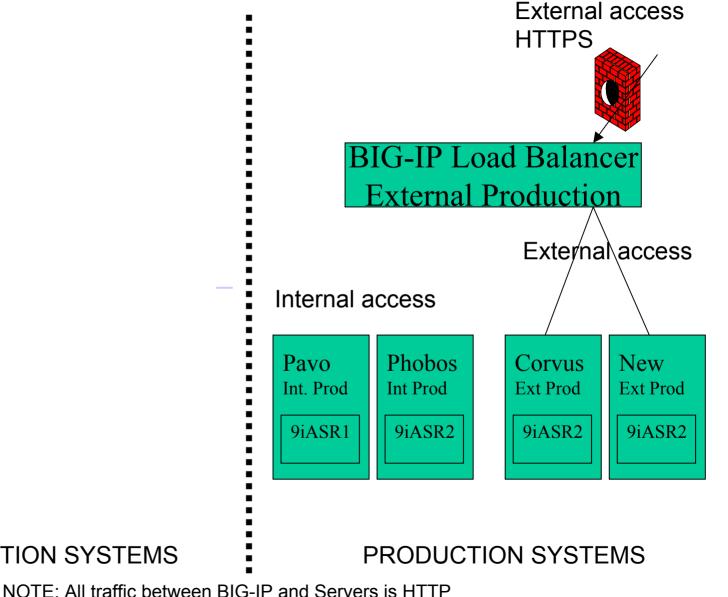
- 1. Load balancing for external users
- 2. Load balancing for all users
- 3. Transparent failover for external users
- 4. Transparent failover for all users

Technology Goals for Summer 2003

- Load balancing for external users
 - Crucial to permit us to scale as external access increases.
- Start packaging internal applications for load balancing
 - Important first step to permit orderly introduction of load balancing internally.

High-level BIG-IP Architecture July Option

NON-PRODUCTION SYSTEMS



Progress to Date

Load balancing hardware in place

- OER/CIT working closely together to make this technology work for eRA
- CIT has tested hardware and is now working with OER to implement the technology
- External applications are already packaged to take advantage of load balancing

Key Dates and Milestones

- 05/05/03 Test ready for developers
- 05/12/03 Test ready for testers
- 05/31/03 Upgrade production
- 6/1-6/7 Deploy first Summer iteration to test
- 06/07/03 Testers begin testing Summer appl.
 code
- Assumptions to stay on plan
 - If new deployments or configuration changes are necessary to get applications to work with load balancing, the schedule may change

Issues

- Production can't be deployed until successful regression testing indicates that load balancing environment works for existing applications.
- Summer deployment testing can't start until Production is ready
- Summer deployment delivery date is tied to start of testing period

Ramifications

Regression Testing results	Ramifications
Existing applications work	We can continue on schedule for July 25 release date
Minor configuration changes (less than 3-4 weeks total delay) in existing applications are needed	We deploy new application configuration Summer deployment may have to be adjusted
Significant amount of configuration/modification (> 4 weeks total delay) must be done to existing applications	We keep Production as is, reset the test environment, then proceed with Summer deployment. Probably a slight delay in Summer deployment.
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