# Project Description/Issue Statement (may include project triggers):

Phase 1: Move systems that require load balancing from Brocade switches to existing Netscaler switches in order to retire older hardware and reduce maintenance costs.

Phase 2: Additionally, address the needs of InfoSec to view the complete path of traffic flowing through the load balancer.

# Goals & Objectives:

## Strategic Goal(s) Supported

Implement highly efficient administrative processes

## Business Objectives

Reduce unnecessary costs and the variety of hardware supported by eliminating Brocade maintenance contract.

## IT Objectives

Address the ability of InfoSec to more effectively monitor customer access to systems behind load balancers

# Project Governance

|  |  |
| --- | --- |
| Role | Name/Org |
| Project Sponsor | Kent Kuo |
| Project Manager | Jill Swenson and TBD |

# Project Scope:

|  |  |  |
| --- | --- | --- |
| Scope | In | Out |
| Functional | Systems managed through Brocade load balancer | Systems using other load balancer and systems not load balanced |
| Organizational | Systems, log files, equipment and processes managed by IS | Other equipment managemed by other organizations |
| System | workflow, mig-fe-vs, test-cyrus-vs, oscarvs, jasdev-vs, admininfoxe-vs, grouper-vs, lum-portal-vs, nolij-vs, adminfo-vs.ucsadm.orst.edu, jasprod-vs, secure-vs.onid, webmail-vs, cyrus-vs, login-vs, ldap-vs | Other systems not mentioned |
| *All other Scope* |  |  |

# Flexibility Matrix:

|  |  |  |  |
| --- | --- | --- | --- |
|  | Least Flexible | Moderately Flexible | Most Flexible |
| Scope |  | X |  |
| Schedule | X |  |  |
| Resources |  |  | X |

# Key Project Deliverables

Move load balancing functionality for systems mentioned off Brocade switches and onto Netscaler switches.

Turn off and recycle Brocade switches.

Terminate Brocade contract before renewal date (October 24, 2016).

Identify and implement a solution to allow InfoSec to effectively monitor traffic between customers and load balanced systems.

Depending on the solution identified, some or all SSL certificates may be moved to the Netscaler as well.

# *Preliminary* Schedule and Milestones:

|  |  |
| --- | --- |
| Milestone | Date (mm/yy) |
| Netscaler setup (SNIPs, VLANs, defining servers) | 3/2016 |
| Move test service and identify processes for moving off Brocade | 4/2016 |
| Set up load balancing for Workflow | 5/2016 |
| Move test systems | 5/2016 |
| Move low usage production systems | 6/2016 |
| Move medium usage production systems | TBD |
| Move high-impact systems | TBD |
|  |  |
|  |  |

# Staffing Estimates

|  |  |  |
| --- | --- | --- |
| Role | Effort | Name/Org |
| LB config and solution creation for logging issue | 2 mo | Josh Zojonc/Stacy Brock (SIG) |
| System migrations and solution creation for logging issue | 4 mo | Evan Juntunen, Andy Morgan, Frank Kessel, Tom Hartsook |
| InfoSec – solution creation for logging issue | 2 mo | Dave Nevin (or delegate) |
|  |  |  |
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|  |  |  |
|  |  |  |

# Service

|  |  |
| --- | --- |
| Item | Name/Org |
| Owner (when project completes) | Of load balancing: Shayne Huddleston. Of security component of transaction logging: Dave Nevin. |

# Financial Estimate (opt.)

|  |  |
| --- | --- |
| Total Costs | Dollars |
| Initial Cost of Project |  |
| Ongoing Annual Cost |  |
| Total Benefits | Dollars |
| One-time Savings |  |
| Annual Savings | $6,064 (Brocade maintenance) |

## Funding Source

Initial Costs:

Ongoing Costs:

## Benefit Description (e.g. revenue increase)

Eliminate cost of annual Brocade switch maintenance contract.

# Dependencies, Assumptions and Constraints

A solution for InfoSec to be able to trace transactions across all involved systems will be determined through joint discussions among the technical teams involved in this project.

Access to log files will be provided to those who need it to perform their jobs.

If SSL certificates are moved to the load balancer, some client IP information can be included in an Apache-readable header.

# Project Performance Measures (opt)

Financial savings due to not renewing the Brocade maintenance contract

# Known Issues and Risks (of proposal)

Simply moving the logging from servers to load balancers hides the IP address and impedes the ability to troubleshoot issues that require identifying individual connections.

Services that do not use Apache (LDAP, imap, perhaps others) cannot utilize the additional header information

General note…doesn’t have to be just one page.

1. Project Description/Issue Statement   
   Summarize the project and business problems to be solved.
2. Goals & Objectives  
   Describe the major goals and objectives of the project from both a business perspective and an IT perspective, if relevant. [Note: clarify language that business objectives should be in terms of capabilities needed – not assets/IT language, etc]
3. Project Governance

List the individuals assigned in directing the project

1. Project Scope  
   Describe what is in and out of scope from a functional (boundaries around what the solution does), organizational (who is affected) and systems (which systems or infrastructure is involved) perspective.
2. Flexibility Matrix  
   Assess where the flexibility will reside for the project to react to uncertainty as the portfolio is created. The assessment is relative between the three factors.
3. Key Project Deliverables  
   List deliverables for the project in terms of business and process capabilities rather than *in terms of changes to particular applications/assets*.
4. Preliminary Schedule and Milestones  
   List the anticipated start and end dates of the project. Include dates of required interim milestones as appropriate.
5. Staffing estimates  
   List the estimated roles and % FTE required to complete the project (e.g 50% DBA, 10% web programmer).
6. Service  
   Enter the proposed long-term owner of the delivered solution when the project completes.
7. Financial Estimate (summary of cost-benefit analysis)

Under Total Costs, list the expected cost to deploy the project (include software, hardware, vendor costs, training, travel, marketing, etc.). List the expected annual cost to maintain the delivered solution (include maintenance fees, service costs, renewals, additional staffing, etc.)

Under Total Benefits, list the expected income or recovery costs (people, hardware, software renewals, additional fees, etc.)

Under Funding source, list the index/account, grant name or organization to provide funding

1. Dependencies, Assumptions, and Constraints  
   List related project deliverables, important assumptions made, and imposed constraints. Note if the project's benefits are dependent on other project delivery dates, business projects/events or seasonal trends (e.g., in time for back-to-school).
2. Issues and Risks  
   Document any anticipated issues and risks with the project that should be considered during portfolio planning.