



# Tier II Web Architecture

## Version 3.0

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**Date: October, 2008**

# Overview

- SQL Server 2005
- Tier I vs. Tier II
- Current Architecture
- Proposed Architecture
- Benefits
- Timelines

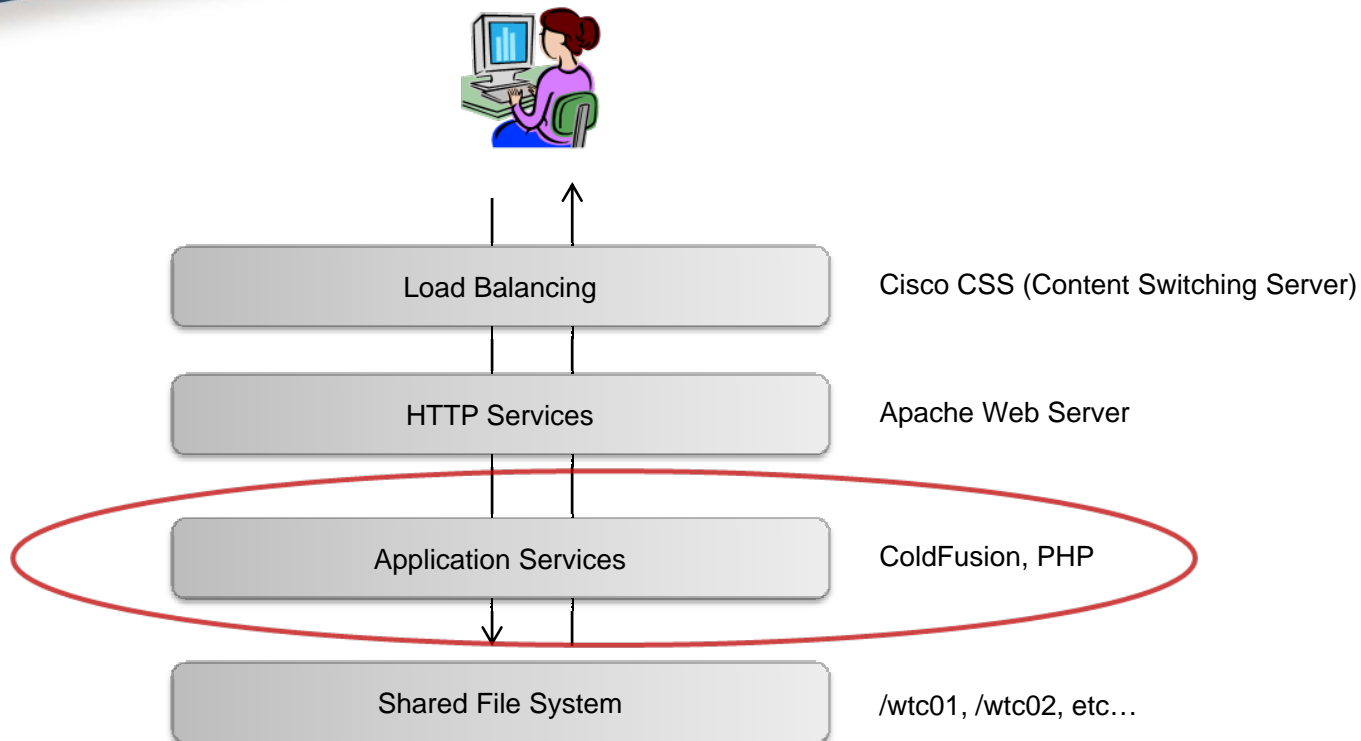
# SQL Server 2005

- Databases that currently exist on SQL Server 2000 can be migrated to 2005
  - SQLSERV1
  - SQLCLST01
  - SQLSERV4
  - SQLCLST02
- Contact: [itgdba@ohsu.edu](mailto:itgdba@ohsu.edu)

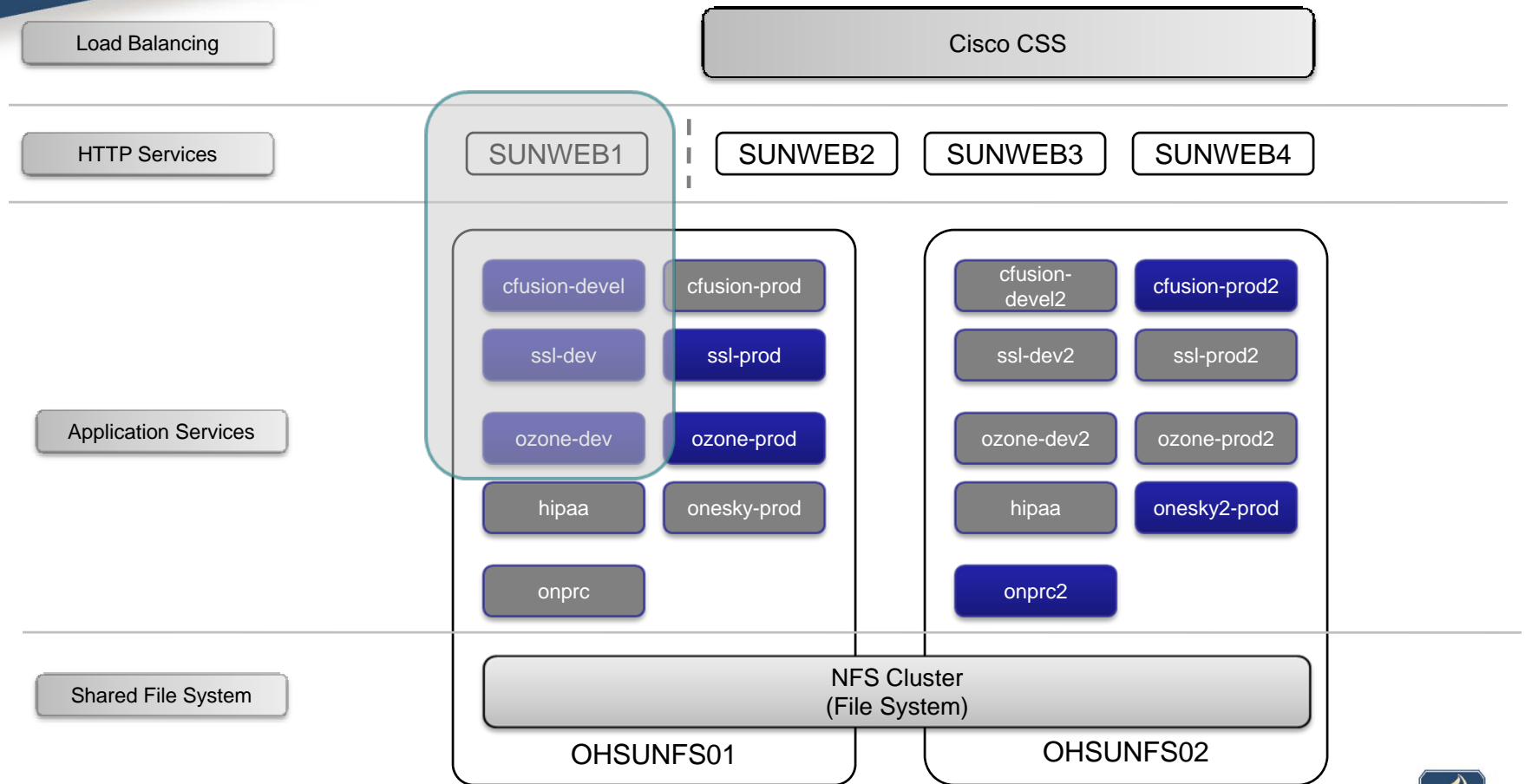
# Tier I vs. Tier II

- Tier I
  - CommonSpot
  - Unified Site Design
  
- Tier II
  - Non-CommonSpot
  - OHSU-Branded
  - ‘Web Cluster’

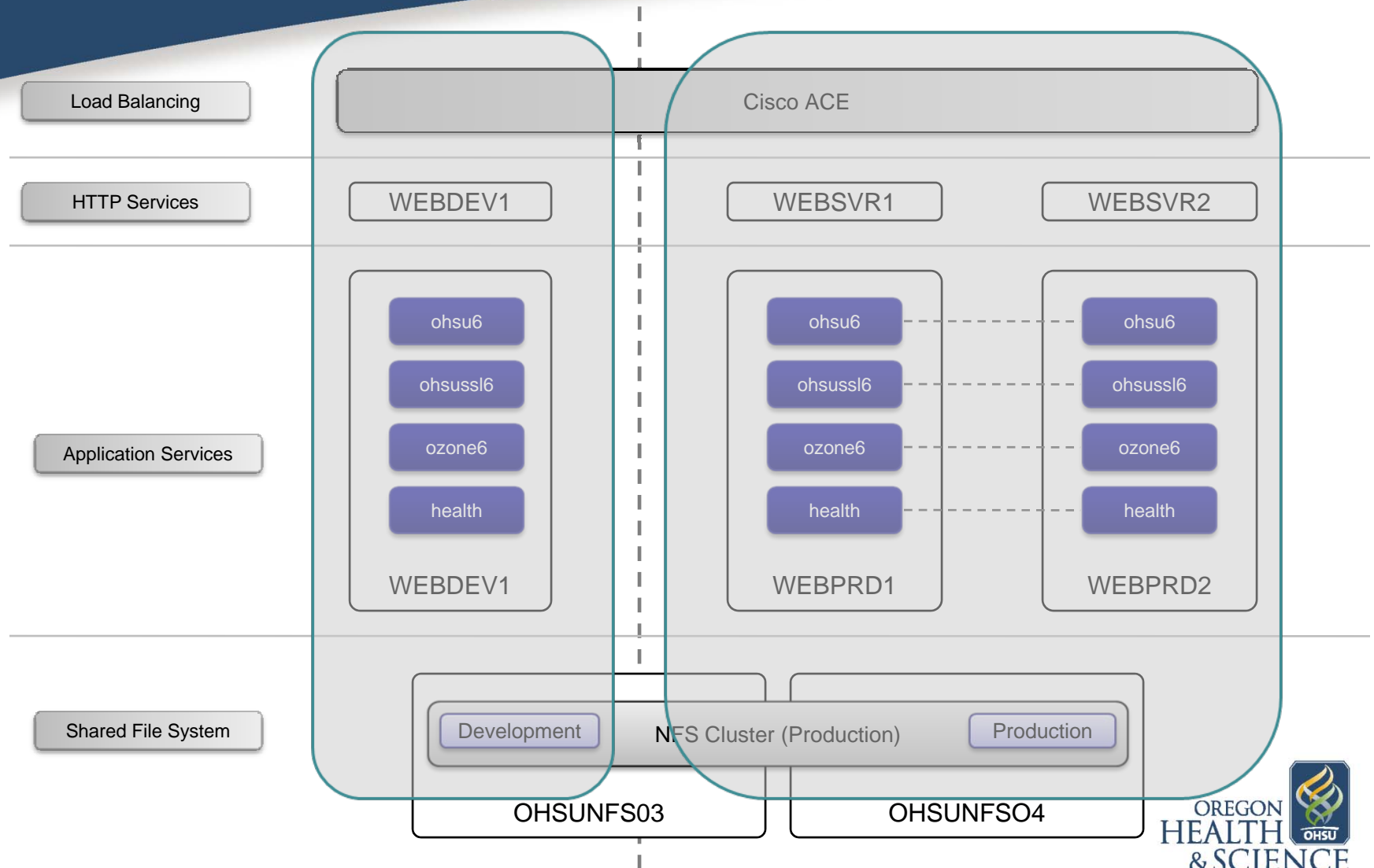
# N-Tier Web Architecture Architecture



# Current Architecture



# Proposed Architecture



# How will we get there?

- 3 Phases
  1. Hardware Upgrade
  2. NFS Cluster Upgrade
  3. ColdFusion 8 Upgrade

# Benefits: Phase 1

- Apache 2.0.55 to Apache 2.2.8
- PHP 4 to PHP 5.2.6
- Faster Hardware, 2-3x
- More Memory, 4x
- True separation of Development and Production Environments
- Re-Introduce High Availability in Production Environments

# Benefits: Phase 2

- File system servers upgraded to newer hardware
- Better file I/O performance for:
  - /wtc01, /wtc02, /wtc03, /wtc04

# Benefits: Phase 3

- ColdFusion 6.01 to ColdFusion 8.01
  - Faster CFML execution
  - Integrated Server Monitoring
  - Newer Features
    - MS Exchange Integration
    - AJAX Controls
    - Just to name a few...

# Performance Tests

Hardware	ColdFusion	Test URL
sunweb1	6.01	<a href="http://sunweb1/webe/perftest">http://sunweb1/webe/perftest</a>
webdev1*	6.01	<a href="http://dev.ohsu.edu/perftest">http://dev.ohsu.edu/perftest</a> *
webdev1	8.01	<a href="http://webdev1/perftest">http://webdev1/perftest</a>

\* Note: ACE rules are not yet in effect for 'dev.ohsu.edu'.

# Timeline

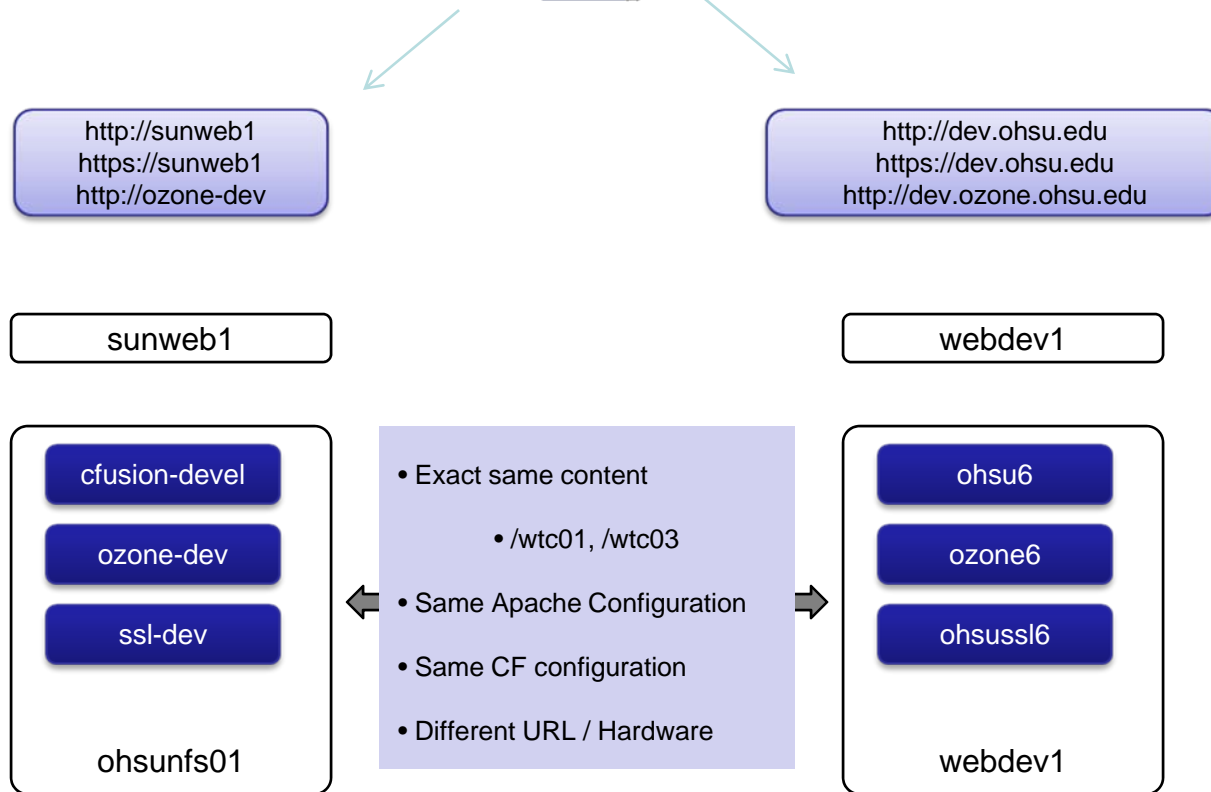
- Hardware Upgrade:
  - Includes Apache 2.2.8 and PHP 5.2.6
  - Dev Testing November 3<sup>rd</sup> – 14<sup>th</sup>
  - Prod Testing November 18<sup>th</sup> – 29<sup>th</sup>
- Go-Live Date:
  - Dependent on number of issues found
  - Hopefully, December 1, 2008

# Timeline Continued...

- NFS Cluster Migration
  - Last 2 weeks of December
- ColdFusion Upgrade
  - January 2009

# Testing – Development URLs

## November 3 -14



# Testing – Production URLs

## November 17-28



http://www.ohsu.edu  
https://www.ohsu.edu

Cisco CSS

Sunweb2-4

cfusion-prod

ozone

ssl-prod

ohsunfs01/2

- Exact same content
  - /wtc02, /wtc04
- Same Apache Configuration
- Same CF configuration
- Different URL / Hardware



http://wwwtest.ohsu.edu  
https://wwwtest.ohsu.edu

Cisco ACE

websvr1/2

ohsu6

ozone6

ohsusssl6

webprd1/2

# Useful URLs

- Tier II Web Upgrade Project
  - <https://webstrat.ohsu.edu/confluence/display/WE/Tier+II+Web+Migration+Project>
  - <http://webstrat.ohsu.edu/blogcfc/wsblog/>
- ColdFusion 8
  - <http://www.adobe.com/products/coldfusion>

# Questions?

