

CONFIGURING MOSS 2007 FOR OPTIMAL PERFORMANCE

Eric Shupps, Microsoft MVP [SharePoint]
President
BinaryWave

Who Am I?

- Founder and President, BinaryWave
- Microsoft MVP (Windows SharePoint Services)
- ISPA Regional Evangelist (South Central US)
- D/FW SharePoint Community Advisory Member
- SharePoint Development Patterns & Practices Advisory Board Member
- Blog: www.sharepointcowboy.com

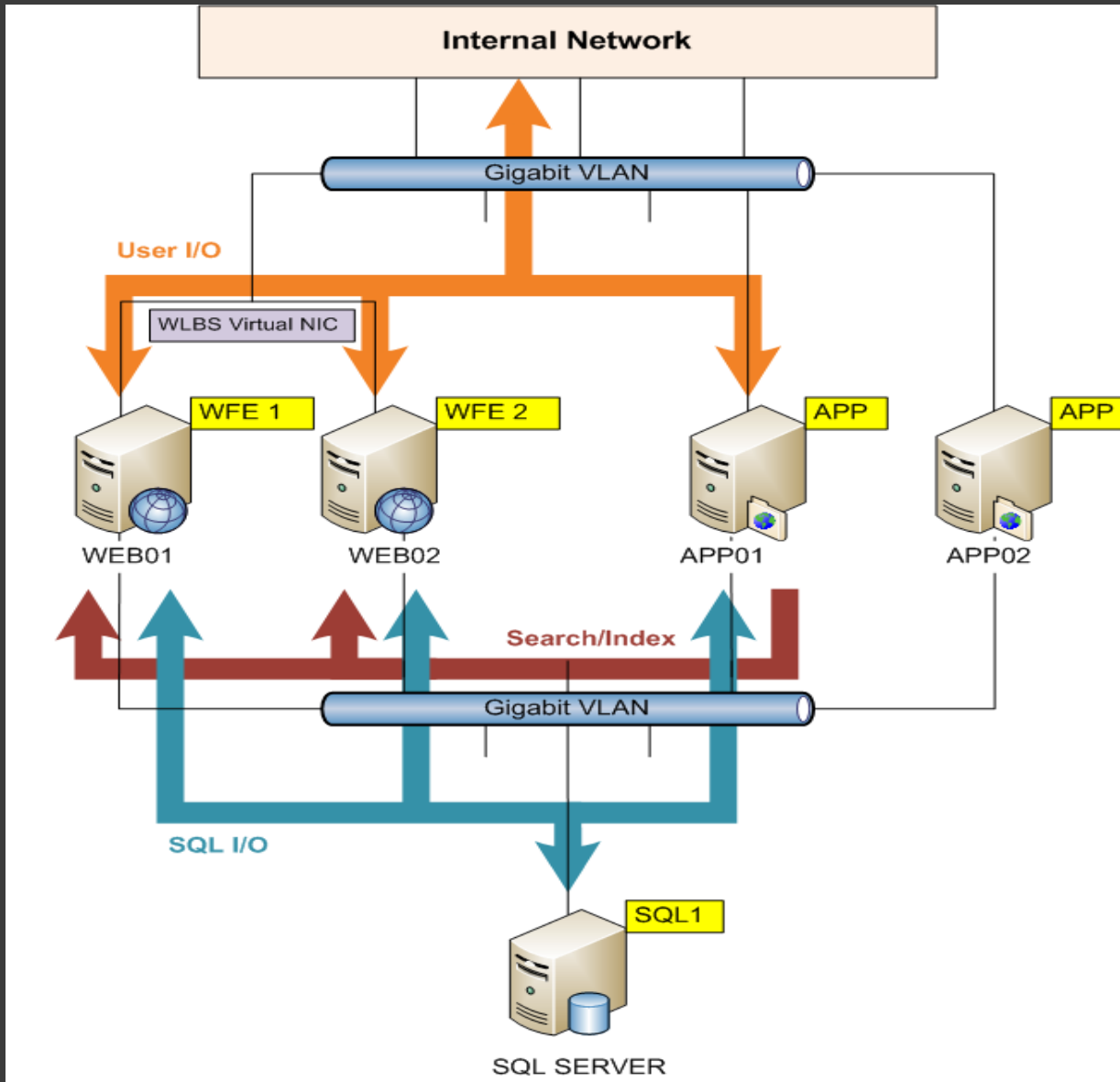


Key Components

- ① Architecture
- ① Database
- ① Services
- ① Search
- ① Compression
- ① Caching

Architecture

- ⦿ Isolate back-end traffic to separate network segment
- ⦿ Partition core services – Excel, Forms, Search
- ⦿ Be aware of sticky session overhead – provision more WFE's



Database

- Pre-stage databases for large implementations
- 100GB recommended content DB limit
- Separate Content, Search and Temp
- Reconfigure autogrowth settings
- Separate large site collections into separate Content DB's

Database, cont.

- ⦿ Fast Disk + Big Cache + High Throughput \geq RAM + CPU
- ⦿ Isolate SharePoint DB
 - Sharing is not caring
- ⦿ DAS $>$ SAN
- ⦿ Implement scheduled maintenance plan

Services

- ⦿ Provision hardware according to service priority
 - Content & WCM – WFE's (SF 1.0)
 - Excel, Forms, Search – App Servers (SF 0.5)
 - Large Documents & Images – Database (SF 0.10 – 0.25)
- ⦿ Performance = (Capacity / Concurrency)
* Service Factor

Search

- Isolate index and crawl servers to reduce overall farm load
- Create custom scopes with unique crawl schedules
- Distribute query tasks across WFE's

IIS Compression

- MOSS/WSS requires dynamic compression mechanisms
- Enable manually on both IIS 6 & 7 (static enabled by default in IIS 7)
- Set dynamic compression level to “9” for max compression vs. cpu benefits
- Increases CPU utilization on WFE’s (no disk storage for dynamic files)

DEMO

Configuring IIS Caching

MOSS Caching

- Page, Object and Disk (BLOB*)
- Reduces database queries, increases local memory dependency
- Be aware of issues in farm configurations
- Configure profiles based on usage patterns

DEMO

Configuring MOSS Caching

Resources

- ◎ Slides and sample code:
 - www.sharepointcowboy.com, “Presentations” link
- ◎ Andrew Connell’s High Performance MOSS Solutions
 - <http://www.andrewconnell.com/blog/articles/Speaking.aspx#20080602a>
- ◎ SharePoint 2007 Performance and Scalability White Paper
 - <http://blogs.msdn.com/sharepoint/archive/2008/06/17/belated-announcement-sharepoint-server-2007-scalability-and-performance-whitepaper-now-available.aspx>
- ◎ TechNet IIS Performance Tuning
 - <http://www.microsoft.com/technet/prodtechnol/WindowsServer2003/Library/IIS/502ef631-3695-4616-b268-cbe7cf1351ce.msp?mfr=true>