



Texas Skyward User Group Conference
Tech Intro to Qmlativ

Qmlativ: What's Under the Hood?



We will discuss the IT-related aspects of Qmlativ. We will cover topics like the Qmlativ server roles, SQL database, system requirements, hosting options, and much more.

- N-Tier Server Design Benefits
- Microsoft SQL Server
- Layered Application Design
- Qmlativ Accessibility
- Hosting Options
- Sample Server Configurations

N-Tier Server Design Benefits

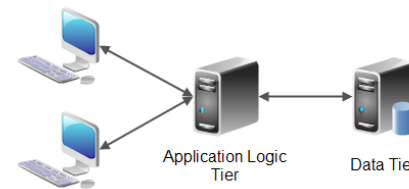


Benefits

- Flexibility
- Security
- Scalability

Server Roles

- Database Server Role
- Web Server Role
- Workflow Server Role



Presentation / GUI Tier

N-Tier Server Design Benefits



Firewall Friendly

- Optional DMZ Web Server (Outside Access)
- Single SSL Port (Reduces attack surface)

Server Friendly

- Secure Service Account for Skyward Services
- Compatible with all Endpoint Protection
- Windows Firewall Compatible
- Windows Critical Updates Encouraged

Security Experts Review

- Annual 3rd party Security Audit
- Audit includes:
 - Skyward Corporate Networks
 - Skyward Server Configurations
 - Skyward Applications

Microsoft SQL Server Editions



Microsoft SQL 2014 R2 64 Bit Standard / BI Edition

- Compute Capacity limited to lesser of 4 Sockets or 16 cores
- 64 GB Maximum Memory (per instance of SQL Server Database Engine)

Microsoft SQL 2014 R2 64 Bit Enterprise Edition

- Compute Capacity and Memory limited to Operating System maximums

Microsoft SQL Server Editions



SQL Advanced Features

- High Availability Options
 - Availability Groups
 - Failover Clustering
 - Log Shipping
- Transparent Database Encryption
- Resource Governor
- SQL Server Audit

SQL feature availability varies by SQL Edition

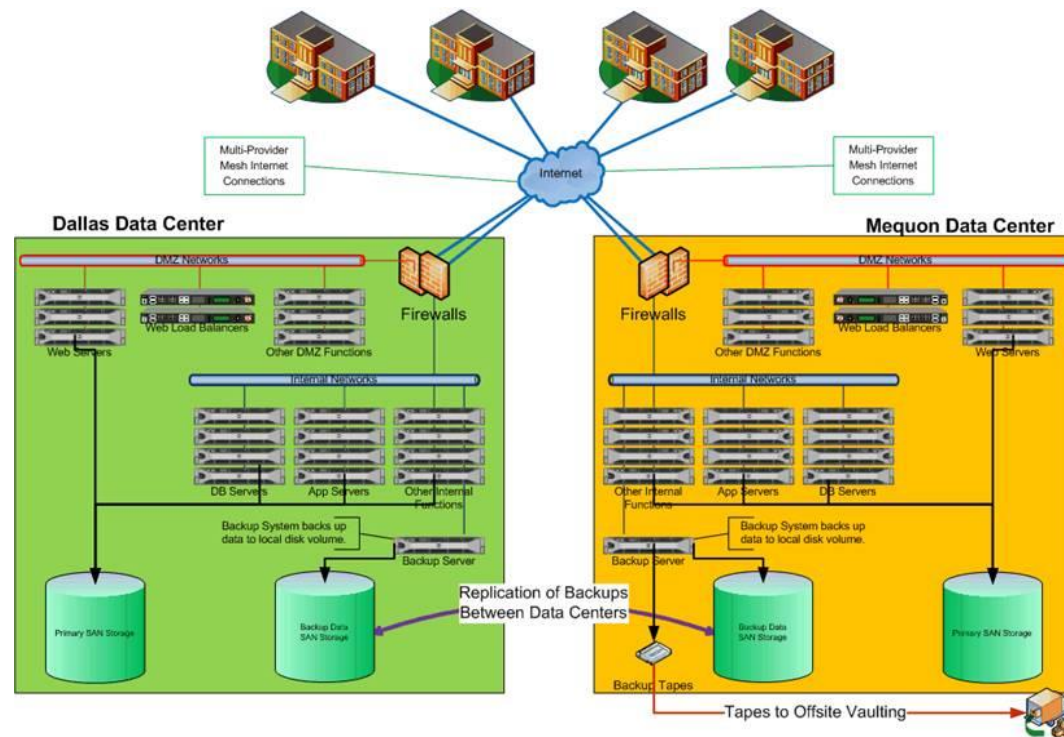
Qmlativ Hosting Options



Secure Cloud Hosted

- ISCorp
 - Exclusive Hosting Partner
 - Platinum, Gold, Silver Hosting options
 - Built in Disaster Recovery: Multiple Data Centers
 - N + 1 for Maximum Uptime
 - Includes all Application Updates, DBA, and System Administration
 - 24x7 System Support

Secure Cloud Hosted Overview



Skyward, Inc. 5233 Coye Dr. Stevens Point, WI 54481		Skyward TEA Datacenter Architecture and DR Replication Diagram		
Description: Diagram outlining the Architecture Data Replication Process between the Dallas and Mequon Datacenter				
DATE	PREPARED BY	DESIGNED BY	REVISION	REV
11/18/2011	SKY	SKY-111811-1.1.0	1.0	A
NUMBER	PROJECT	ISSUE	DATE	FILE

Qmlativ Hosting Options



Managed Services On-Premise Hosting

Platinum, Gold, Silver:

- HPE Server
- Microsoft Windows / SQL Licensing
- SSL Certificate
- Symantec Endpoint Protection
- Business Hours support via toll free, web, chat, VPN, WebEx
- After Hours Support

Platinum, Gold:

- 24 x 7 Monitoring

Platinum:

- Disaster Recovery Service

Qmlativ Hosting Options



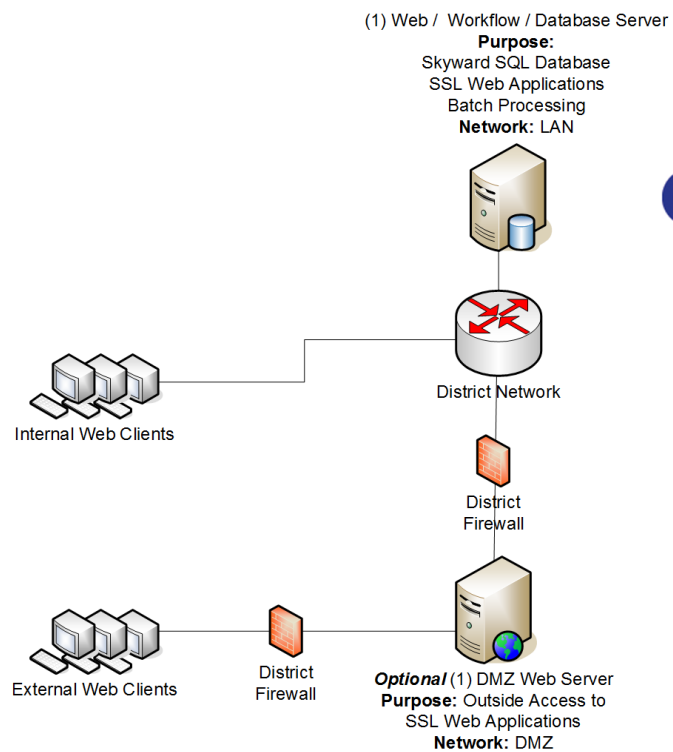
Managed Services On-Premise Hosting

- Skyward Provides the Experts
- Product Updates
- Database Refreshes
- Conversion Assistance
- VMWare, Microsoft, OpenEdge, HPE, Cisco Certified Employees
- Experienced DBAs
- Experienced System Administration

IT Services Average Employee Tenure: 15+ years!

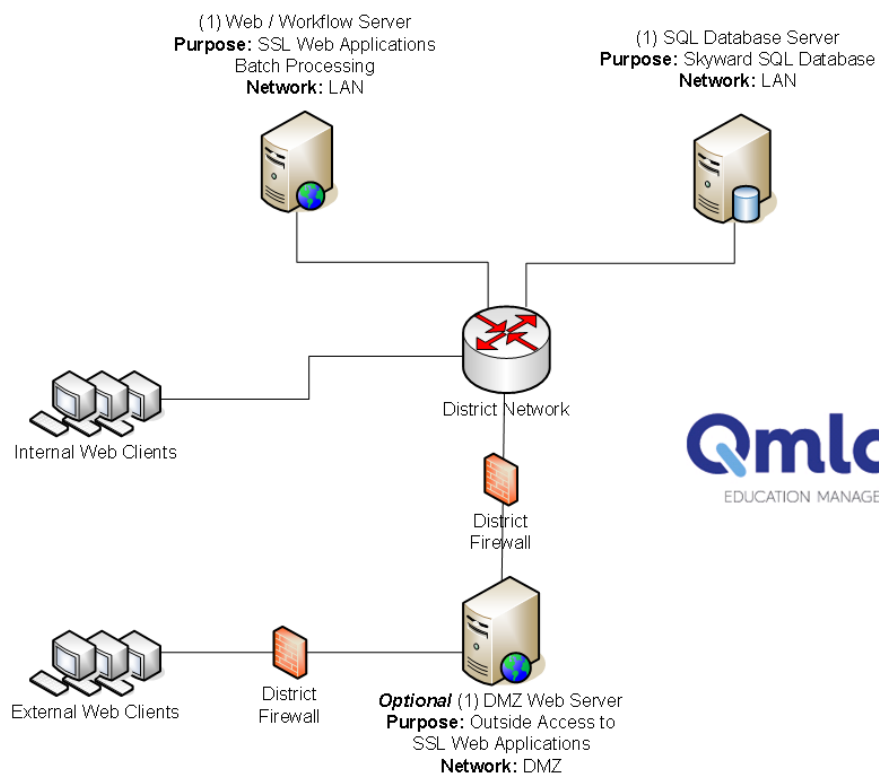
System Configuration

Sample System Configuration – up to 10,000 Students



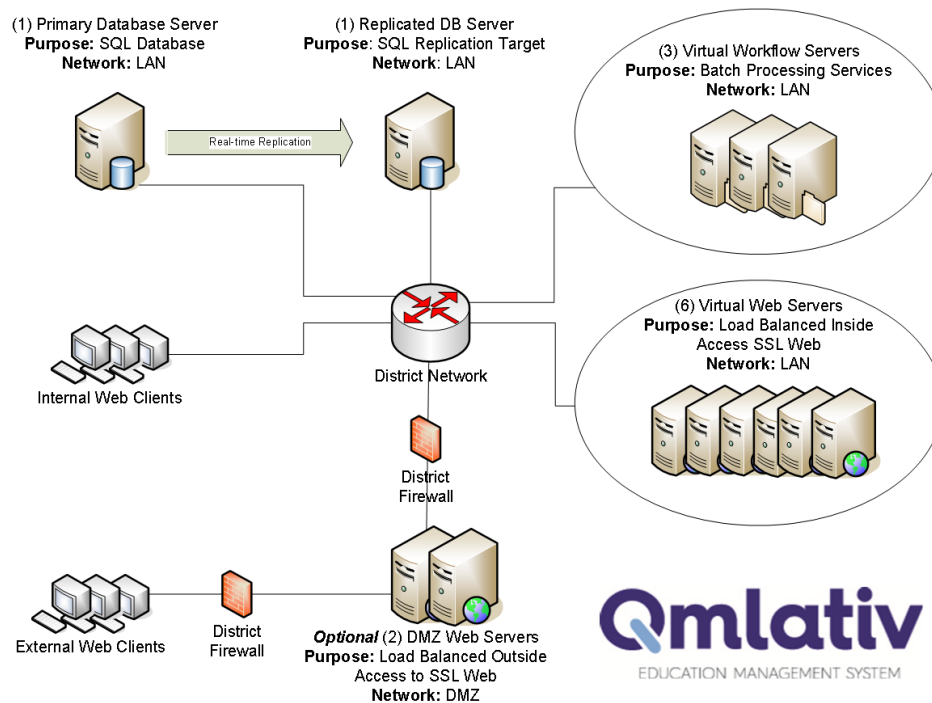
System Configuration

Sample System Configuration – 20,000 Students



System Configuration

Sample System Configuration – 80,000 Students





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THANK YOU FOR ATTENDING!

