



DBAs Need a Vacation Too

How to Optimize SQL Server for Cost and Management Efficiency

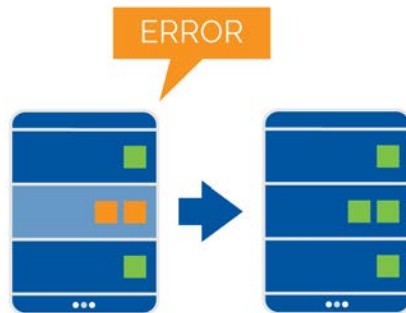
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Why Can't You Leave Your SQL Servers?



- New deployments
- Troubleshooting
- M&A integrations
- Unplanned outages – fire fighting
- Planned downtime events

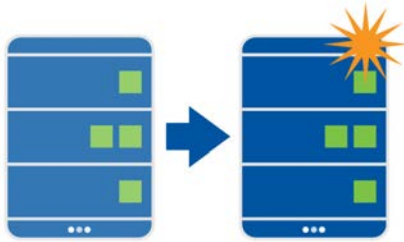
Unplanned Outages



- The potential for unexpected outages keeps us close to our phones
- Outage recovery can be lengthy
- Virtualization alone doesn't go far enough
- Native Microsoft solutions are complex and costly
 - » WSFC FCI
 - » AOAGs



Planned Downtime



- Makes up over 80% of all downtime
- Updates & upgrades for
 - » SQL Server instances
 - » Windows Server
 - » Other applications
- Infrastructure refresh / migrations
- Just keeping up with the latest

Nights and Weekends



- Many outage windows are scheduled for nights & weekends
- We're prone to error during typical outage windows
- Makes it even more difficult to have a life outside of work

Nothing Is Free

- Better HA/DR = higher costs
- Microsoft and VMware licensing restrictions
- Shrinking budgets
- “Do more with less”



DH2i's DxEnterprise

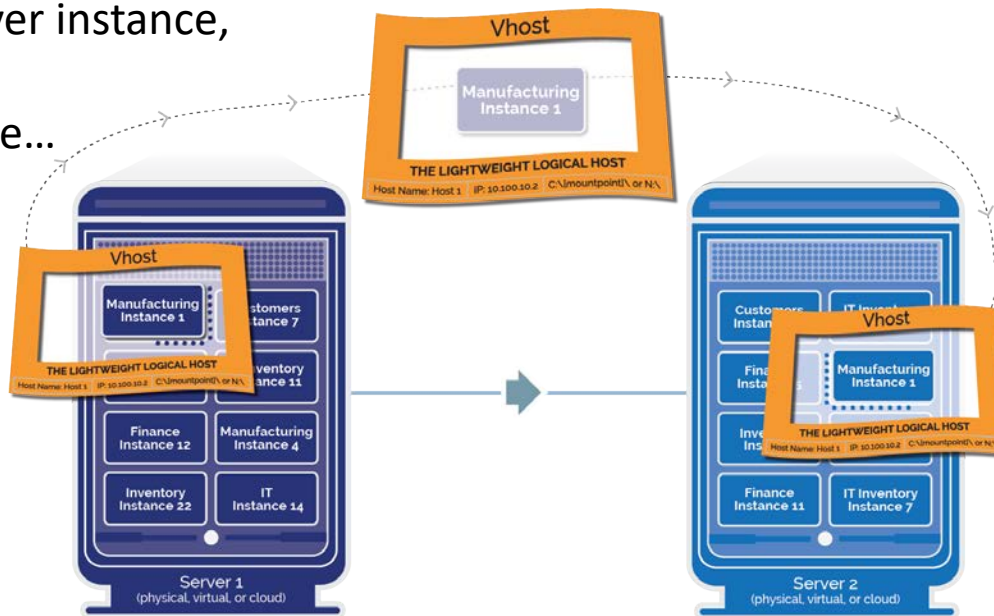
Get your life back with one simple tool



- SQL Server management tool
- Built-in instance-level HA/DR
- Minimize downtime for upgrades & updates
- Reduce costs
 - » Avoid Enterprise Edition & SA
 - » Ease management and reduce sprawl
- Take a vacation from your needy SQL environment

DxEnterprise is Workload Mobility

Move any SQL Server instance, Docker container, service, or file share...



...from any host to any host, anywhere, anytime...

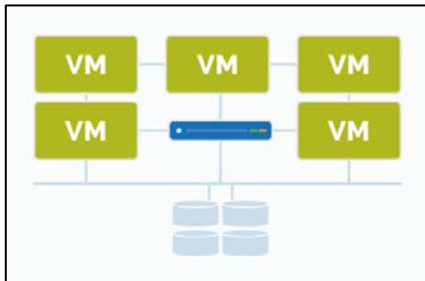
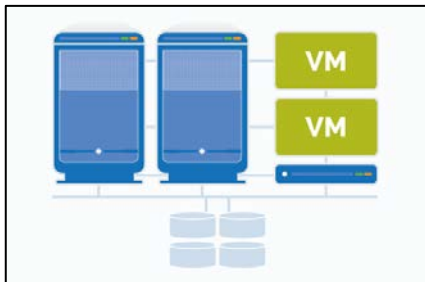
...all with data persistence

DxEnterprise® HA and DR Protection



- **Automated HA w/ Smart Availability™**
 - » Automated protection from: infrastructure, OS, application binaries, and configuration faults; and most pilot errors
 - » SLA assurance with application-based QoS
- **Disaster recovery and resilience**
 - » Simple orchestrated low RTO multi-subnet DR
 - » Data replication mechanism is your choice

Any Infrastructure, Any Mix



- **HA & portability for any SQL Server instance, Docker container, windows service, or file share**
 - » 2008R2+ Windows Server OS, any edition
 - » RHEL/CentOS 7+, Ubuntu 16+
 - » 2008+ SQL Server, any edition
 - » Any Docker container
 - » Physical, virtual & cloud
 - » Shared and/or replicated storage
- **Infrastructure independence & easy modernization**
 - » Simple OS, application and infrastructure modernization
 - » No vendor or infrastructure lock-in

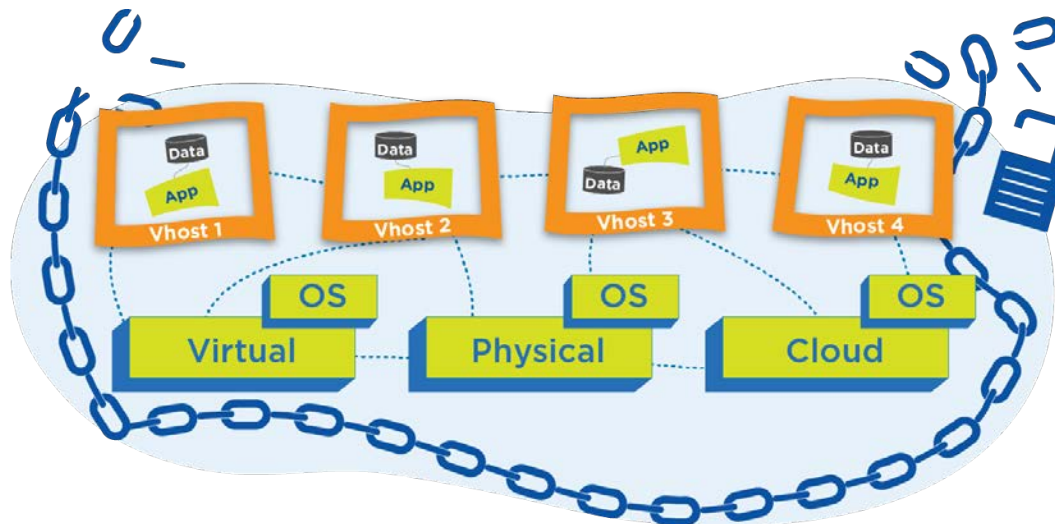
Unparalleled Cost and Complexity Reduction



- **Most efficient consolidation**
 - » Lightest weight mobility
 - » Stack instances and containers
 - Average 5-15 per server
- **Customers save on average 25-60%**
 - » Fewer servers to license
 - » Avoid premium software editions/SA
 - » Reclaim licenses for future use
- **Comprehensive local and remote management**
 - » GUI, PowerShell, CLI, iOS/Android app management
 - » Global alerts

DxEnterprise SQL Server on Windows Demo

- Quickly install DxEnterprise on existing servers
- Add an instance under management
- Fail instance over into new SQL and OS version
- Show stacked instances for consolidation & cost savings



DH2i Solutions

[DxOdyssey >](#)

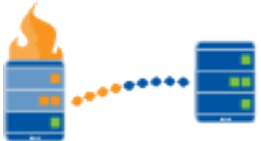


Secure Network Micro-Tunneling

- Secure-by-app connectivity
- No dedicated VPN
- Eliminates lateral attack surface

Build lightweight, discreet, scalable and highly available “secure-by-app” connections between on-premises and/or cloud environments for and between Windows and Linux without a VPN or direct link.

[DxEnterprise >](#)



Multi-Platform Smart Availability

- Highest levels of availability
- Reduced licensing costs
- Management simplicity

Manage a variety of workloads at the instance level—as well as Docker containers. Get instance mobility from any host, to any host, anywhere with just an application or container stop and restart.

[DxAG >](#)



Eliminate Availability Groups Clustering Headaches

- Advanced fault detection
- Failover automation
- Hybrid cloud optimization

Build highly available SQL Server Availability Groups across Linux and Windows nodes—without WSFC or Pacemaker limitations.

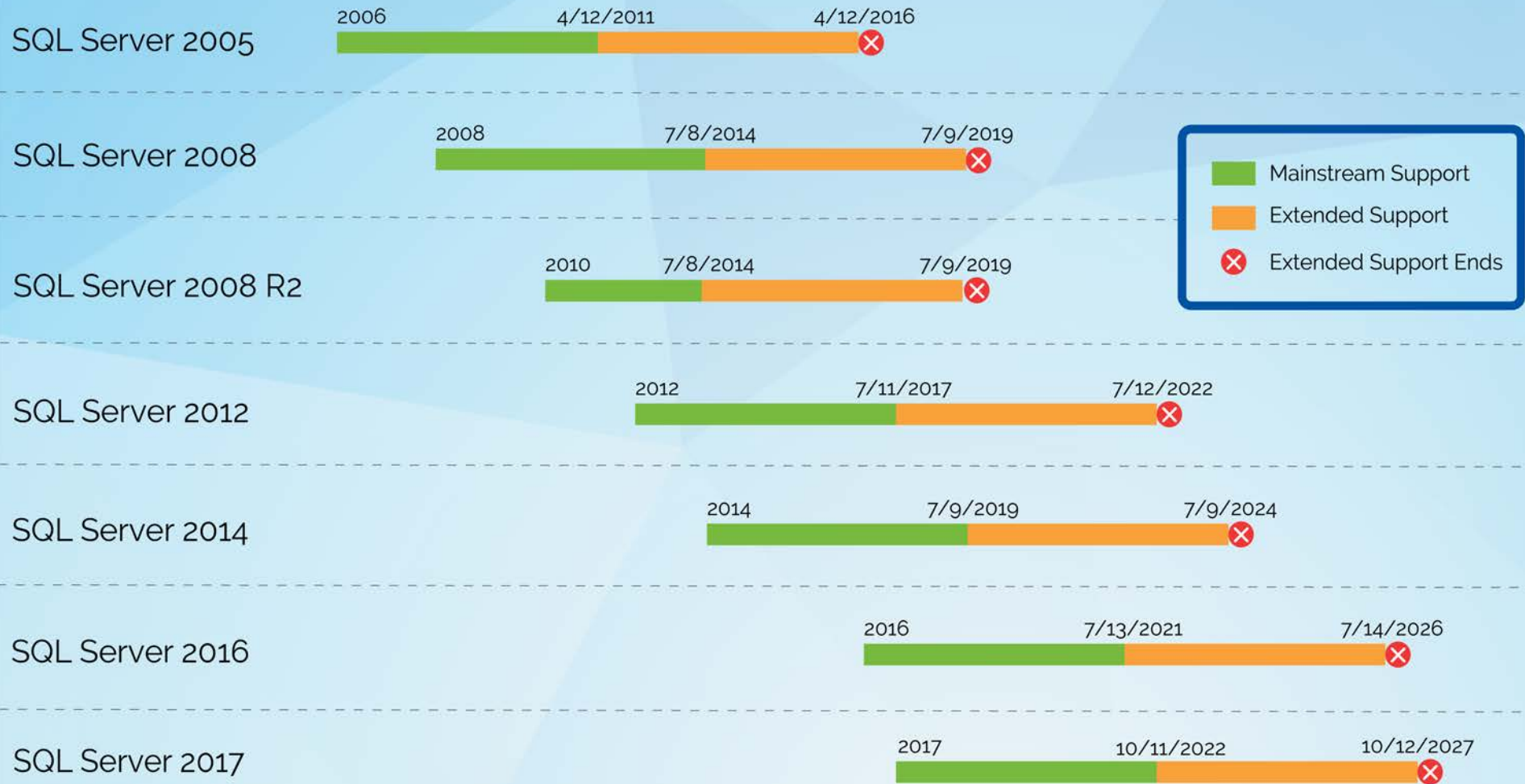
PSA: SQL Server 2008 & 2008 R2

End of Extended Support is 7/9/2019

- End-of-Support Options
 - » Purchase Premium Assurance
 - » Do nothing and risk security, regulatory, and compliance issues
 - » Upgrade before the deadline



SQL Server Product Lifecycle



Q&A

MVP Denny Cherry Reviews DxEnterprise:
dh2i.com/denny-cherry-review/

Free trial:
dh2i.com/trial/

Proof of Concept

- DH2i grants access to DH2i Client portal
- Follow-up with login info, download links, and license key
- Available to help install and configure, assist with design, and support as-needed
- Trial period = 30 days

