

Shadowbase Zero Downtime Migration



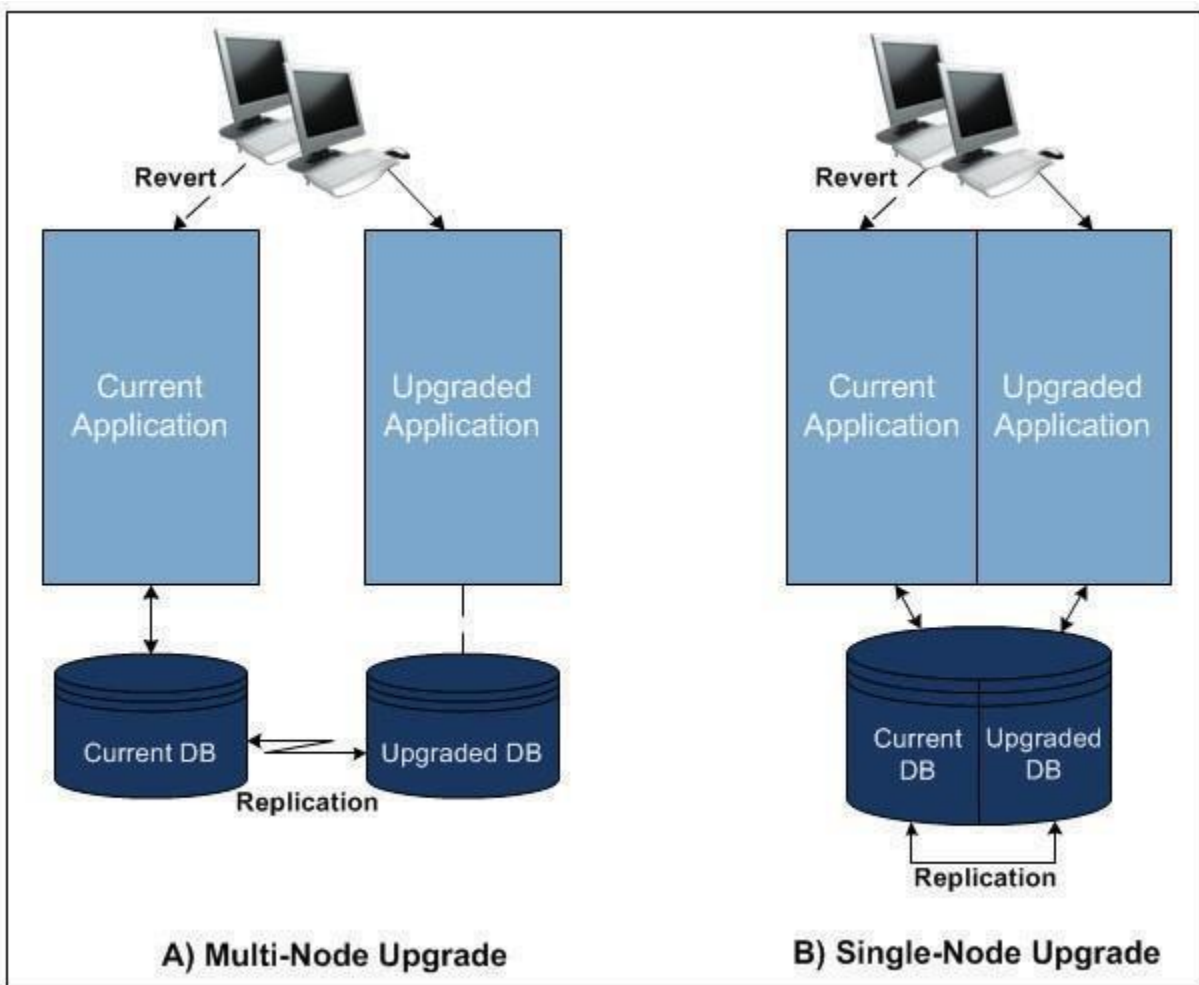
Update IT Hardware and Software Infrastructure with No Loss of Service

Today's requirement for the continuous availability of online services necessitates the minimization or elimination of planned downtime, such as that needed for an operating system or hardware upgrade, or for installation of new application versions. This requirement is solved by Shadowbase Zero Downtime Migration (ZDM) software, which provides continuous availability, eliminates planned downtime, and removes business risk from application upgrades.



HPE Shadowbase ZDM Eliminates Planned Downtime

Much system downtime is due to planned outages required for upgrades, maintenance conversions or migrations. The requirement could be for an operating system upgrade, a new application release, database maintenance, or installing new hardware. With Shadowbase ZDM, these interruptions are handled without denial of application services to end users, therefore scheduled downtime is eliminated, maintaining continuous availability for IT business services. A location for the new environment is all that is needed, either on the same node (Figure 1B) or another node (Figure 1A), depending on the type of conversion.



Figures 1A, 1B – Shadowbase ZDM

HPE Shadowbase ZDM Eliminates Business Risk

As part of the ZDM process, the new environment is synchronized with the production environment using real-time change data capture (CDC) and all functions are verified before the cutover occurs. Shadowbase ZDM eliminates the risk of the classic Big Bang conversions and outage windows by allowing the users to cutover, either gradually or all at once to a *known-working* environment.

Shadowbase ZDM software:

- Provides continuous application services to all end users for complex migrations, upgrades, and conversions to avoid application downtime
 - Migrate to new hardware (homogeneous or heterogeneous)
 - Upgrade the operating system or database software
 - Convert from an older to a newer application version
- Avoids the risk of classic Big Bang conversions and outage windows
 - Fully verify the new environment before deploying
 - Cutover users either gradually or all at once to a known-working environment

Summary

System upgrades in conventional IT environments are expensive and can lead to extensive system downtime. For standalone systems, the system must be taken down, upgraded, and returned to service during a maintenance window. Upgrading may take a long time, and an upgrade gone badly could prevent a system from being returned to service in the required time.

Even if a backup system is available and is used for the upgrade, it is necessary to switch operations from the primary system to the newly upgraded system within the maintenance window. Switching over to the upgraded system could be lengthy, during which time both systems are down. The switchover may also fail, following which neither system may be functional.

Shadowbase ZDM software provides the means to avoid all of these issues, to achieve zero downtime migrations, eliminate planned downtime, and enable system upgrades to be performed safely with continuous business services to end users.

Hewlett Packard Enterprise globally sells and supports Shadowbase solutions under the name HPE Shadowbase. For more information, please contact your local HPE Shadowbase representative or visit our website. For additional information, please view our Shadowbase solution videos: <https://vimeo.com/shadowbasesoftware>.

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shadowbasesoftware.com
hpe.com

Contact us:

Gravic, Inc.
17 General Warren Blvd
Malvern, PA 19355-1245 USA
Tel: +1.610.647.6250
Fax: +1.610.647.7958
Email Sales: shadowbase@gravic.com
Email Support: sbsupport@gravic.com

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