Categorize platforms through planning & assessment for migration by role; choose one from the 5R (Rehost, Refactor, Revise,

Rebuild Replace/Retire) platform methods defined by Gartner and establish an adequate migration plan accordingly.

Gartner's 5R Platform Migration

Data Collection

• The simplest platform migration method

Migrate the platform into a new infrastructure environment

Priority & Business Value Analysis High-level Business Case

Change specific code and/or configuration information to

help ease its adoption within a new infrastructure environ-

• Relatively easy way to migrate the platform Refacto

High-level Application Portfolio Analysis

the previously used features and services remain intact or else

• The most complex platform migration method Reviso

Architecture • Migrate it into a new infrastructure environment in a way that Upgrade the version or rebuild the previously used solution

> or features/service in a way that they suit the new infrastruc-• More complex than Rehost, but easier than Revise Rebu

 Replace the previously used solution with another solution • It is emotionally/practically difficult to make a decision from the standpoint of IT service team, but it is technically easy

High-level Planning

Migration method 1 – Make use of the default roles and features provided by the OS

You can practice this migration method by referring to the technical documentation in the TechNet Library officially provided by Microsoft or by working in collaboration with the Microsoft Services team and/or your partners, and also apply this to the migration of both the physical and virtual servers.

Migration tools and procedures • Windows Server Migration Tool (WSMT) Install/set on both source and destination servers • Migrate the role of server, features, operating system configuration, other data and shared files

For more details about how to install/set WSMT on source and migration-destination servers, go to http://technet.microsoft.com/ko-KR/library/jj134202

- (Case by Case
- A referential guideline is provided for typical migration scenarios among default roles and features of Windows Server 2003
- It is recommended that you first carry out assessment before migration because a number of things need to be considered in the actual operating environment



Windows Server

Update Services

into the destination server

http://technet.microsoft.com/ko-KR/library/dd379558.aspx

http://technet.microsoft.com/ko-KR/library/dd379535.aspx

http://technet.microsoft.com/ko-kr/library/hh852339.aspx

Active Directory Certificate Services

Referential guideline

Referential guideline:

http://technet.microsoft.com/ko-KR/library/dd379487.aspx

http://technet.microsoft.com/ko-KR/library/dd379531.aspx

http://technet.microsoft.com/ko-KR/library/ee126170

gister WSMT on th urce server

Windows Server Migration Information: http://technet.microsoft.com/ko-kr/library/jj134039, http://technet.microsoft.com/ko-KR/library/dd365353.aspx

Migration method 4 – Use as database server

You can refer to the technical documentation in the TechNet Library officially provided by Microsoft or work in collaboration with Microsoft Services team and/or your partners to migrate the database into a newer version or re-configure it while migrating the OS environment.

Old SQL to New SQL: **Tools and Procedures** • Microsoft Assessment and Planning

- (MAP) Toolkit Capable of collecting and checking
- inventory information about the SQL server installed/configured on the source server
- MAP Toolkit Overview & Download: http://social.technet.microsoft.com/wik sment-andplanning-toolkit.aspx#GSG
- Configure SQL on the destination server based of the information collected tion from the source server using MAP Toolkit using a MAP Toolkit Back up the SQL database Install a new SQL server in the desti the source server and reit into SQL running on the tion server i/contents/articles/1640.microsoft-asses For more information about collecting information of Old SQL server using MAP, go to http://blogs.technet.com/b/meamcs/archive/2012/09/24/how-to-use-map-tool-microsoft-assessment-and-planning-toolkit.aspx

Other DB to SQL: **Tools and Procedures**

- Microsoft Assessment and Planning (MAP) Toolkit
- Microsoft SQL Server Migration
- Assistant (SSMA) • Collect and check inventory information of the 3rd party database (Oracle,
- MySQL, Sybase) using MAP Toolkit • Database migration using SSMA
- SSMA Overview: http://www.microsoft.com/ko-kr/ sqlserver/product-info/migrationtool.aspx



Make use of the roles and features provided by the OS by default

With Rehost, Refactor, Replace/Retire among Gartner's

▶Etc...

5R Platform Migration methods taken into account 5R Platform Migration methods taken into account Relatively easy and less complex Make use of the fault roles and features provided by the OS ► Active Directory Services ► File Server Services ►IIS + .NET ▶ Domain Name Server ▶ Java WAS + J2EE Services ► DHCP Services

> ► WSUS Services ▶ Routing & Remote • Pre-assessment is required Access Services • The 3rd party software and applications It is required to collect information and work in collaboration with 3rd party vendors (provider of 3rd party software and application developers) • With simple guidelines, migration cannot be performed

> Use as a database serve **▶** SQL

The Costabilish an adequate migration plans accordingly.

The stablish an adequate migration plans are to establish an adequate migration plans. dingly need to be classified by their use in order to establish

Use as a database server

▶ MySQL

▶Etc...

With Refactor, Revise, Rebuild and Replace/Retire among Gartner's 5R Platform Migration methods into account

With Revise, Rebuild and Replace/Retire among Gartner's 5R Platform Migration methods taken into account

Migration method 2 – Use as web application server

Microsoft offers Web Deploy, which helps migrate ASP.NET and PHP applications developed/deployed in IIS 6.0 provided by Windows Server 2003 into IIS version 7.0 or later, and you can use Web Deploy to first migrate into a new destination server and then change the application-specific code or configuration values in the new infrastructure environment.

Target Platform Review

Use as a web application server

stall the 3rd party

olution / use as the

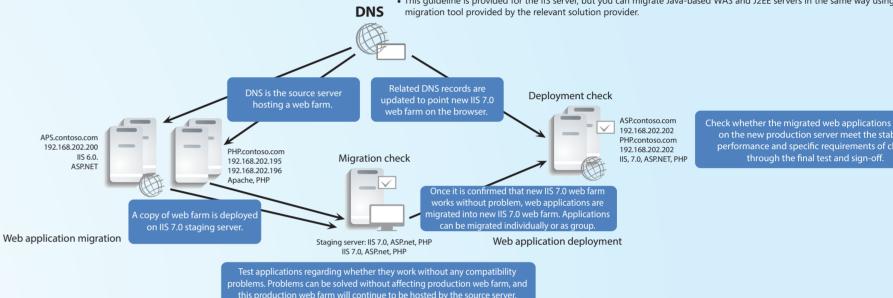
operating server

With Refactor, Revise Replace/Retire among Gartner's

Install Web Deploy Extension on both the source and destination Web Deploy v3.5 of the source server • A tool that simplifies the deployment of web applications and websites to the IIS server • It helps synchronize IIS servers, or migrate them into newer versions of IIS server • For more information about Web Deploy, visit Create a package file on the source server and migrate it into the http://www.iis.net/downloads/microsoft/web-deploy the source serve destination server For more information about IIS migration using Web Deploy, go to http://technet.microsoft.com/en-us/library/ff633422(v=ws.10).aspx

> • It is recommended that you first test Web Deploy in a test environment, carry out assessment through troubleshooting and thei use it in the actual operating environment because there are a number of things to be considered, including the deployment of ASP.NET or PHP application to IIS and specific configuration

• This quideline is provided for the IIS server, but you can migrate Java-based WAS and J2EE servers in the same way using the migration tool provided by the relevant solution provided



Migration method 3 – Install the 3rd party solution / use as the operating server

When it comes down to migrating Windows Server 2003 hosting 3rd party solutions (and applications), there are many more things to be considered concerning the migration of those solutions (applications) to a new infrastructure environment, rather than the migration of the OS itself, and moreover the procedure and methodology take on added significance. Microsoft recommends performing migration in 9 steps as shown below. (It is difficult to propose guidelines in broad generalities because a number of things must be considered depending on the 3rd party solutions - and applications - installed.)

The following figure shows a detailed examination of the step-by-step activities proposed by Microsoft for the migration of Windows Server 2003 on which the

(It is recommended to follow each step and activity involved, but some steps could be skipped depending on the size of the 3rd party solutions - and applications - or staffing of the client.)

