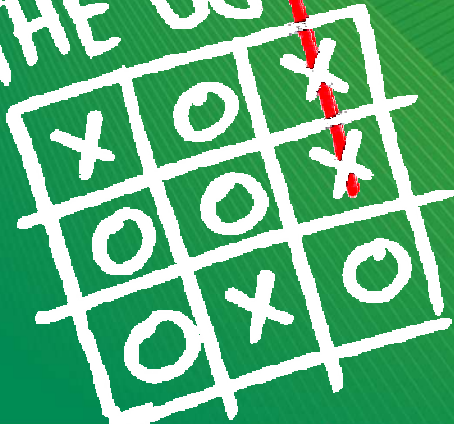


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THINK
OUTSIDE
THE BOX



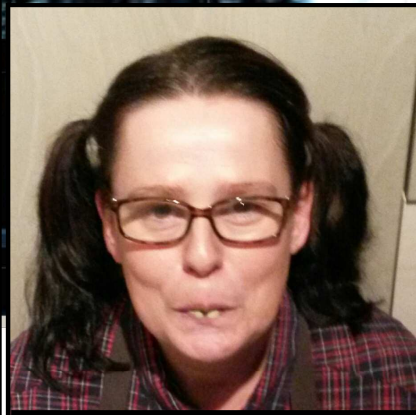
WITH NAV DEVELOPMENT

Eric Wauters
(iFacto Business Solutions)

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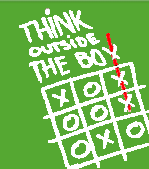


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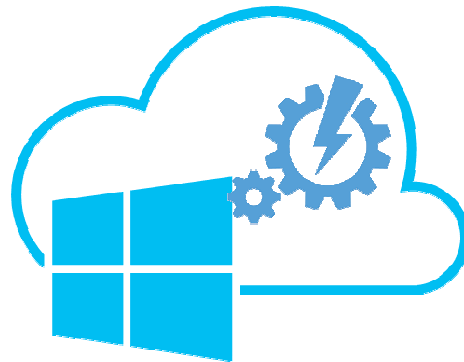
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AGENDA



installed possible Exchange application contains great editor
explain instead partners Toolset
addition Camera session
known Posting minutes
tenants explained namespaces though small means
quite property added complete later
opens using really against
event create subscriber timestamp product solution
extended additions solutions decent Power phone
PowerBI Implement function supported Another multitenant
connect mentioned
Add-in improved result
integration specific
things start Lexmark Rates PowerShell Connector
published probably Ability finally
Online
release
Based Client
something
work download fixed
ID thing assign
Autolncrement executed issues
service description window actually
Customization Directions
multiple Eventing
Developers

Extensions

Outside-the-box

PowerShell

Microsoft

Security

Dynamics

NAV2016

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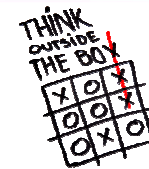
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POWERSHELL

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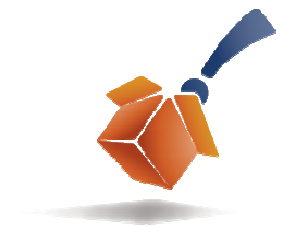
EXTEND THE ISE

Easily add menu for frequently used tasks

Add this to the profile

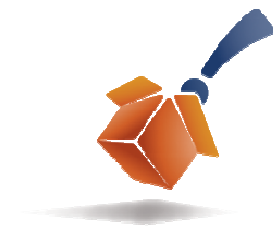
Make it easy for you to use PowerShell ISE

Profiles



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CREATE YOUR OWN MODULE

Collection of functionalities

Common nouns in cmdlets and functions

.psm1

Deploy: xcopy

[http://msdn.microsoft.com/en-us/library/windows/desktop/dd878310\(v=vs.85\).aspx](http://msdn.microsoft.com/en-us/library/windows/desktop/dd878310(v=vs.85).aspx)

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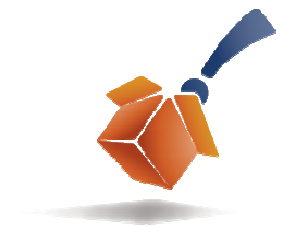
ISE STEROIDS

<http://www.powertheshell.com/isesteroids/>

created by PowerShell MVP Dr. Tobias Weltner

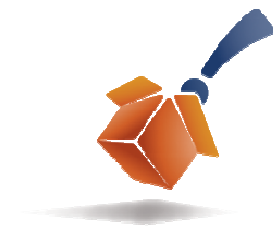
your “personal PowerShell consultant”

- Learn
- Master
- Leverage



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CREATE RE-USABLE FUNCTIONS

Backup-NAVDatabase

Restore-NAVDatabase

New-NAVEnvironment

Copy-NAVEnvironment

ConvertTo-MultiTenantEnvironment

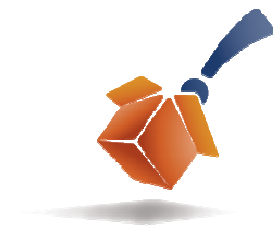
InvokeSQL

Start-WindowsClient / Start-IdeClient

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EXTEND EXISTING CMDLETS

Get-NAVServerInstance

Get-NAVServerConfiguration

Get-NAVCompany

...

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Upgrade

Export Objects from Original

Start Data Upgrade

Import Upgrade Toolkit

Remove Sandbox

Export Objects from Modified

Check Conflicts

Export Objects from Target

Import merged objects

Create NAV environment from original database in new v

Import license in resultdb

Check Deleted Objects

Update VersionList

Compile

Merge

Delete all objects except tables

Conver database to new version

Create FOB file

Create Delta's between Original and Modified

Delete tables that were deleted by targ

CreatenTargetDatabase Sandbox

Make current user db_owner

Import License in Sandbox

Create Delta's between Original and Target

Unlock Objects

Import Result Fob

Export as fob

Sync Schema changes

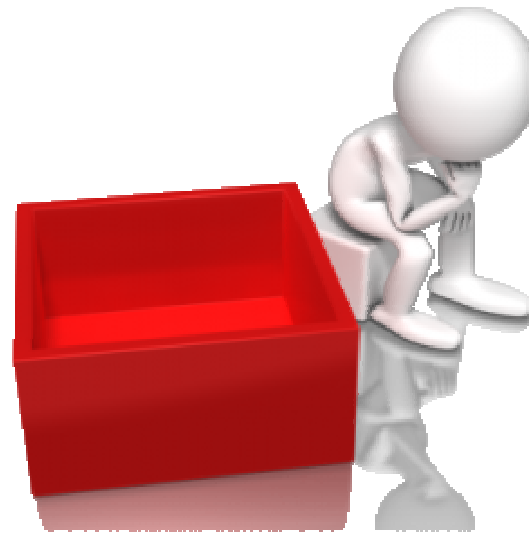
Remove all unchanged objects

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GOAL

Automate as much as possible!



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UPGRADE

Merge

- Export objects
 - Original
 - Modified
 - Target
- Create Delta's
 - Original vs Modified
 - Original vs Target
- Merge objects
- Update Versionlist
- Update Date/time
- Save MergeResult
- Remove Unchanged

Create Fob

- Restore Sandbox from Target DB
- Create Server Instance
- Upload License
- Import MergeResult
- Compile
- Export
- Remove Sandbox

Data Upgrade

- Restore Modified DB in new version
- Unlock Objects
- Convert DB
- Start NST
- Delete all except tables
- Import Upgrade Toolkit
- Delete tables
- Import Fob
- Sync
- Start Data Upgrade
- Backup database



Creating Delta's to C:_Workingfolder\Upgrade_TestCustomer\MergeResult\Deltas_ORIGINAL_MODIFIED

Creating Delta's to C:_Workingfolder\Upgrade_TestCustomer\MergeResult\Deltas_ORIGINAL_TARGET

Merge to C:_Workingfolder\Upgrade_TestCustomer\MergeResult

Update Versionlist and DateTime

Enabling PortSharing for MicrosoftDynamicsNavServer\$NAV2016_BE

Backup up database with this statement:

```
BACKUP DATABASE [NAV2016_BE] TO DISK = N'C:\Program Files\Microsoft SQL
Server\MSSQL12.MSSQLSERVER\MSSQL\Backup\MicrosoftDynamicsNavServer$NAV2016_BE.bak'
```

```
WITH COPY_ONLY, NOFORMAT, INIT, NAME = N'NAVAPP_QA_MT-Full Database Backup', SKIP, NOREWIND, NOUNLOAD,
STATS = 10
```

Restoring Backup C:\Program Files\Microsoft SQL

Server\MSSQL12.MSSQLSERVER\MSSQL\Backup\MicrosoftDynamicsNavServer\$NAV2016_BE.bak to NAV2016_BE_Sandbox

Invoke-SQL with this statement:

```
SELECT [Default Data Path] = SERVERPROPERTY('InstanceDefaultDataPath')
```

Invoke-SQL with this statement:

```
SELECT [Default Log Path] = SERVERPROPERTY('InstanceDefaultLogPath')
```

Invoke-SQL with this statement:

```
RESTORE FILELISTONLY FROM DISK=N'C:\Program Files\Microsoft SQL
Server\MSSQL12.MSSQLSERVER\MSSQL\Backup\MicrosoftDynamicsNavServer$NAV2016_BE.bak'
```

Restoring database NAV2016_BE_Sandbox

Creating ServerInstance NAV2016_BE_Sandbox

Make ServiceAccount NT AUTHORITY\NETWORK SERVICE DBOwner

Invoke-SQL with this statement:

```
IF NOT EXISTS(SELECT name FROM sys.server_principals WHERE name = 'NT AUTHORITY\NETWORK SERVICE')
```

```
BEGIN
```

```
CREATE USER [NT AUTHORITY\NETWORK SERVICE] FOR LOGIN [NT AUTHORITY\NETWORK SERVICE]
```

```
END
```


Invoke-SQL with this statement:

```
ALTER ROLE [db_owner] ADD MEMBER [NT AUTHORITY\NETWORK SERVICE]
```

Enabling PortSharing for NAV2016_BE_Sandbox

Import NAV license in NAV2016_BE_Sandbox

Import Merged Objects

Compile Uncompiled

Export C:_Workingfolder\Upgrade_TestCustomer\Result.fob

Remove Temorary DB NAV2016_BE_Sandbox

Removing ServerInstance NAV2016_BE_Sandbox

MultiTenant: False

Invoke-SQL with this statement:

```
ALTER DATABASE [NAV2016_BE_Sandbox] SET SINGLE_USER WITH ROLLBACK IMMEDIATE
```

Invoke-SQL with this statement:

```
DROP DATABASE [NAV2016_BE_Sandbox]
```

NAV2016_BE_Sandbox successfully dropped.

Restore modified backup and create as instance

Restoring Backup C:_Workingfolder\CustomerDBs\TestCustomer.bak to ProductDEV

Invoke-SQL with this statement:

```
SELECT [Default Data Path] = SERVERPROPERTY('InstanceDefaultDataPath')
```

Invoke-SQL with this statement:

```
SELECT [Default Log Path] = SERVERPROPERTY('InstanceDefaultLogPath')
```

Invoke-SQL with this statement:

```
RESTORE FILELISTONLY FROM DISK=N'C:\_workingfolder\CustomerDBs\TestCustomer.bak'
```

Restoring database ProductDEV

Creating ServerInstance ProductDEV

Make ServiceAccount NT AUTHORITY\NETWORK SERVICE DBOwner

Invoke-SQL with this statement:

```
IF NOT EXISTS(SELECT name FROM sys.server_principals WHERE name = 'NT AUTHORITY\NETWORK SERVICE')
    BEGIN
        CREATE USER [NT AUTHORITY\NETWORK SERVICE] FOR LOGIN [NT AUTHORITY\NETWORK SERVICE]
    END
```

Invoke-SQL with this statement:

```
ALTER ROLE [db_owner] ADD MEMBER [NT AUTHORITY\NETWORK SERVICE]
```

Enabling PortSharing for ProductDEV

Unlock all objects

Invoke-SQL with this statement:

```
UPDATE [ProductDEV].[dbo].[Object] SET [Locked]=0,[Locked By]=''
```

Invoke-SQL with this statement:

```
CREATE USER [WIN-K5JLU49T310\Administrator] FOR LOGIN [WIN-K5JLU49T310\Administrator]
```

Invoke-SQL with this statement:

```
ALTER ROLE [db_owner] ADD MEMBER [WIN-K5JLU49T310\Administrator]
```

Invoke-SQL with this statement:

```
DISABLE TRIGGER [dbo].[REVISION_UPDATE] ON [dbo].[Object]
```

Invoke-SQL with this statement:

```
DISABLE TRIGGER [dbo].[REVISION_INSERT] ON [dbo].[Object]
```

Invoke-SQL with this statement:

```
DISABLE TRIGGER [dbo].[REVISION_DELETE] ON [dbo].[Object]
```

Converting Database

Invoke-SQL with this statement:

```
ALTER DATABASE [ProductDEV] SET MULTI_USER WITH NO_WAIT
```

Start NST ProductDEV

Import NAV license in ProductDEV

Import Upgrade Toolkit

Deleting all objects except tables

Deleting these Tables:

Type=Table;Id=452

Type=Table;Id=453

Type=Table;Id=464

Type=Table;Id=465

Import C:_workingfolder\Upgrade_TestCustomer\Result.fob

Import C:_workingfolder\Upgrade_TestCustomer\Result.fob

Performing Sync-NAVTenant

Starting Data Upgrade

InProgress -- 0.00 %

InProgress -- 46.67 %

InProgress -- 86.67 %

InProgress -- 86.67 %

Completed -- 100.00 %

Data upgrade status: Completed

BackupDatabase

Backup up database with this statement:

```
BACKUP DATABASE [ProductDEV] TO DISK = N'C:\Program Files\Microsoft SQL
Server\MSSQL12.MSSQLSERVER\MSSQL\Backup\ProductDEV.bak' WITH COPY_ONLY, NOFORMAT,
INIT, NAME = N'NAVAPP_QA_MT-Full Database Backup', SKIP, NOREWIND, NOUNLOAD, STATS = 10
```

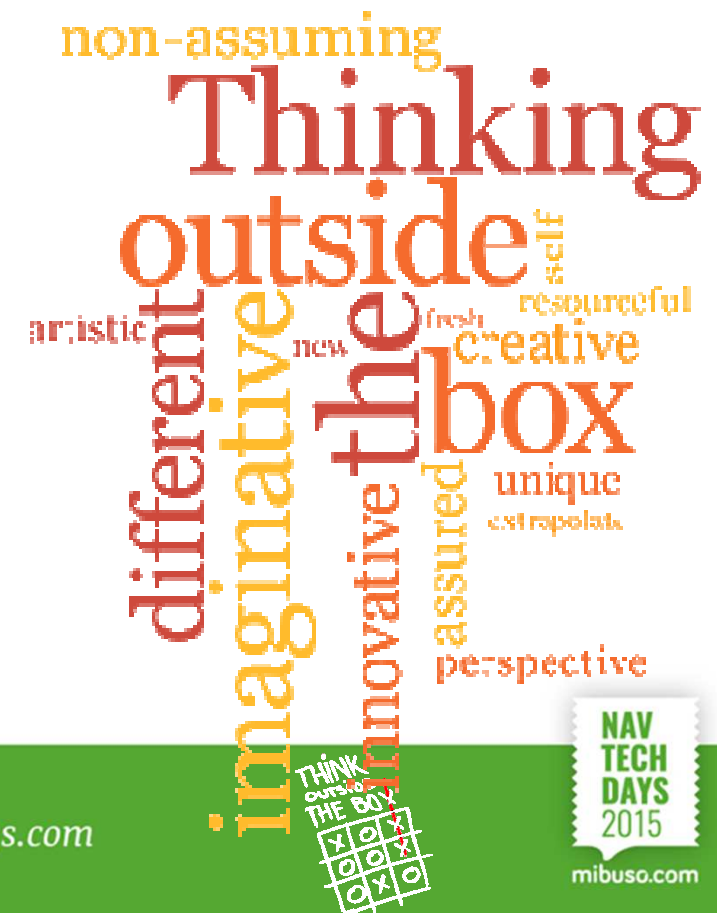
Done!

MicrosoftDynamicsNavServer\$ProductDEV created!

Total Duration 951 seconds

CAN WE GO FASTER?

Current script takes about 16 mins



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LET'S USE THE POWER OF MULTI TENANCY

Create an ApplicationDB

- 1) Copy TargetDB
- 2) Import License
- 3) Import text objects
- 4) Compile – force schema changes
- 5) Convert to Multi Tenancy
- 6) Dismount Default Tenant
- 7) Import Upgrade Codeunits
- 8) Restore your Modified Db
- 9) Mount it to the application-db
- 10) Sync

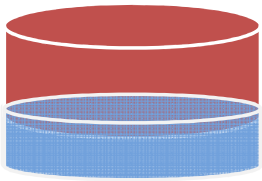
Convert to Single Tenant

- 1) Dismount Tenant
- 2) Export application to Tenant
- 3) Backup

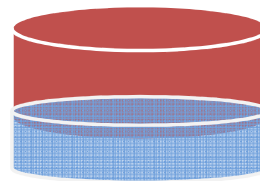
Create Result Environment from Backup



Target Environment



Copy-NAVEnvironment



Dismount & Drop Database
Import-NAVServerLicense
Set-NAVServerInstance -Restart
Import all merged objects
Compile (Force Schema changes)



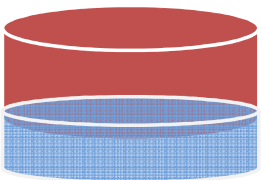
Copy-NAVApplicationDB TenantEnvironment

Result



Mount-NAVTenant
Import Upgrade Codeunits
Sync-NAVTenant
Start-NAVDataUpgrade
Dismount-Tenant
Export-NAVApplication

Restore Modified Database (Old Version)



Remove-NAVApplication

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LET'S USE THE POWER OF MULTI TENANCY

Time saved: 8 mins per upgrade



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ONE MORE STEP...

Download the Cumulative Update



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WHAT ARE THE STEPS

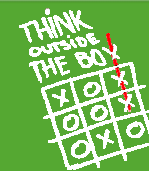
- 1) Find blogarticle with new Cumulative Update
- 2) Find KB Article – open it
- 3) Request hotfix
- 4) Select hotfix (country)
- 5) Fill in email
- 6) [Open email](#)
- 7) Click link

http://hotfixv4.microsoft.com/Dynamics NAV 2015/latest/NAKB3097767/42951/free/487517_ENU_i386_zip.exe

```
{  
  fixid:'487517',  
  product:'Dynamics NAV 2015',  
  language:'English',  
  langcode:'ENU',  
  platform:'x86',  
  release:'latest',  
  filename:'NAKB3097767',  
  version:'NAV 8.0',  
  build:'42951',  
  size:'659155760',  
  create:'9\2f28\2f2015 7\3a49\3a29 PM',  
  moddate:'9\2f29\2f2015 6\3a15\3a23 AM' }
```



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HOW DO WE

Monitor the RSS feed of the NAV Team Blog

Follow the KB link

On the KB Link, follow the download link

Read the JSON on the KB page

Create your link

Download!

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POWERSHELL KEY TAKEAWAYS

Think in reusable functions

Create and maintain your own toolbox

Always build on top of this toolbox

Who would be interested in getting
his hands on these PowerShell
functions?



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<https://github.com/waldo1001/>



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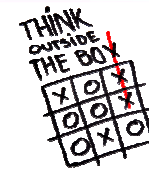


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EXTENSIONS

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IN SHORT – WHAT IS AN EXTENSION?

Upgrade-safe modification to your NAV database

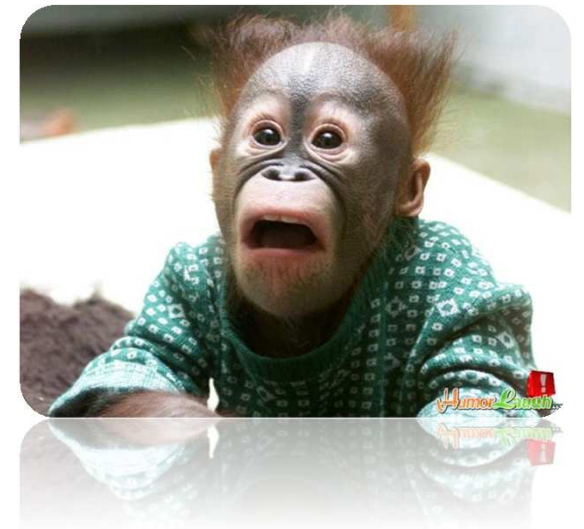
Publishing/Installing a package that describes the changes that need to be made

Deltafiles – describe the modifications

Navx – the package extension

Manifest – describes the package (version, author, dependencies, prerequisites, ...)

WHAT DO WE NEED TO CREATE AN EXTENSION?



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EXTENSION POWERSHELL CMDLETS

Name	Synopsis
Get-NAVAppInfo	Gets information about an NAV App based on the specified package file or the specified Microsoft Dynamics NAV Server instance.
Get-NAVAppTenant	Gets the tenants where the specified NAV App is installed.
Install-NAVApp	Installs a published NAV App for a tenant.
Publish-NAVApp	Publishes a NAV App to the app catalog of the specified Microsoft Dynamics NAV Server instance.
Repair-NAVApp	Repairs a NAV App by recompiling it against the current base application. Use this cmdlet if the base application has changed since publishi...
Uninstall-NAVApp	Uninstall a NAV App for a tenant.
Unpublish-NAVApp	Unpublishes a NAV App from the app catalog of the specified Microsoft Dynamics NAV Server instance.
Export-NAVAppPermissionSet	Exports the specified permission set from a Microsoft Dynamics NAV database to a file.
Get-NAVAppManifest	Loads a manifest for an NAV App from an external source.
New-NAVAppManifest	Creates a new in-memory manifest object with the specified NAV App metadata.
New-NAVAppManifestFile	Creates a file with metadata for a NAV App package.
New-NAVAppPackage	Creates a NAV App package file (.navx) at the specified location based on the specified manifest file and source files.
Set-NAVAppManifest	Sets one or more available properties on an in-memory manifest.

DEVELOPMENT-PART

create a navx-file

- Get/Create/update Manifest
 - New-NAVAppManifest
 - Set-NAVAppManifest
 - Get-NAVAppManifest
 - New-NAVAppManifestFile
 - Get-NAVAppInfo
- Exporting Permissions
 - Export- NAVAppPermissionSet
- Packaging into a NAVX
 - New-NAVAppPackage

ADMINISTRATION-PART

Deploying a navx-file

- Publishing an Extension
 - Publish-NAVApp
 - Unpublish-NAVApp
- Installing an Extension
 - Install-NAVApp
 - Uninstall-NAVApp
- Managing the Extension
 - Get-NAVAppInfo
 - Get-NAVAppTenant
 - Repair-NAVApp

WHAT'S IN A NAV APP MANIFEST

App Element

- (MajorAppID
- Name
- Publisher
- Description
- Version (Major.Minor.Build.Revision)
- CompatibilityID .Minor.Build.Revision)

Capabilities Element

- UiChanges / UiAdds / schemaChanges / schemaAdds / codeAdds / PermissionSets

Prerequisites Element

- specific identifiable object IDs (if not exists, not published)

Dependencies Element

- Other NAV Apps

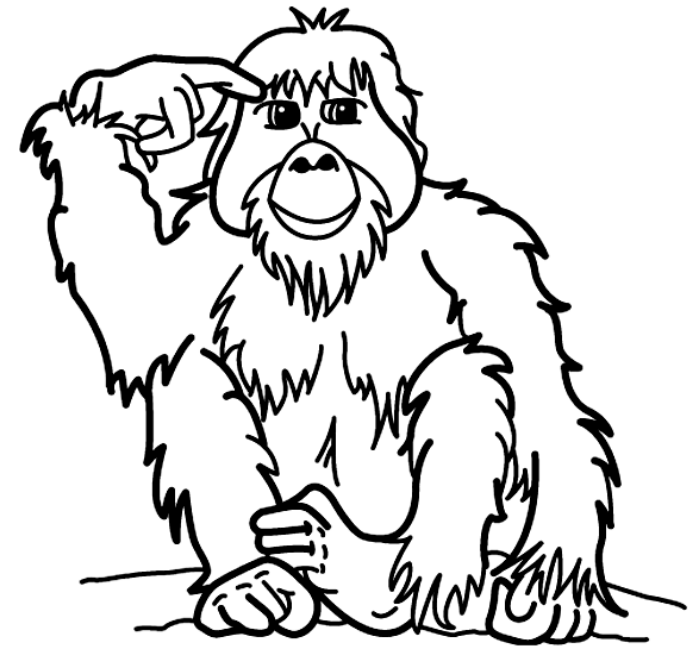
WHAT IN A NAV APP PACKAGE

Set of Delta Files

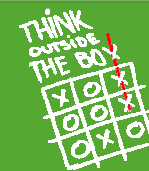
The Manifest

Permissionsets

Let's create a simple Extension



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PUBLISH-NAVAPP

Check Prerequisites

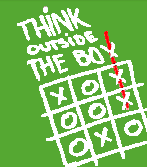
Check Dependencies

Build sandbox database with Export-NAVApplication

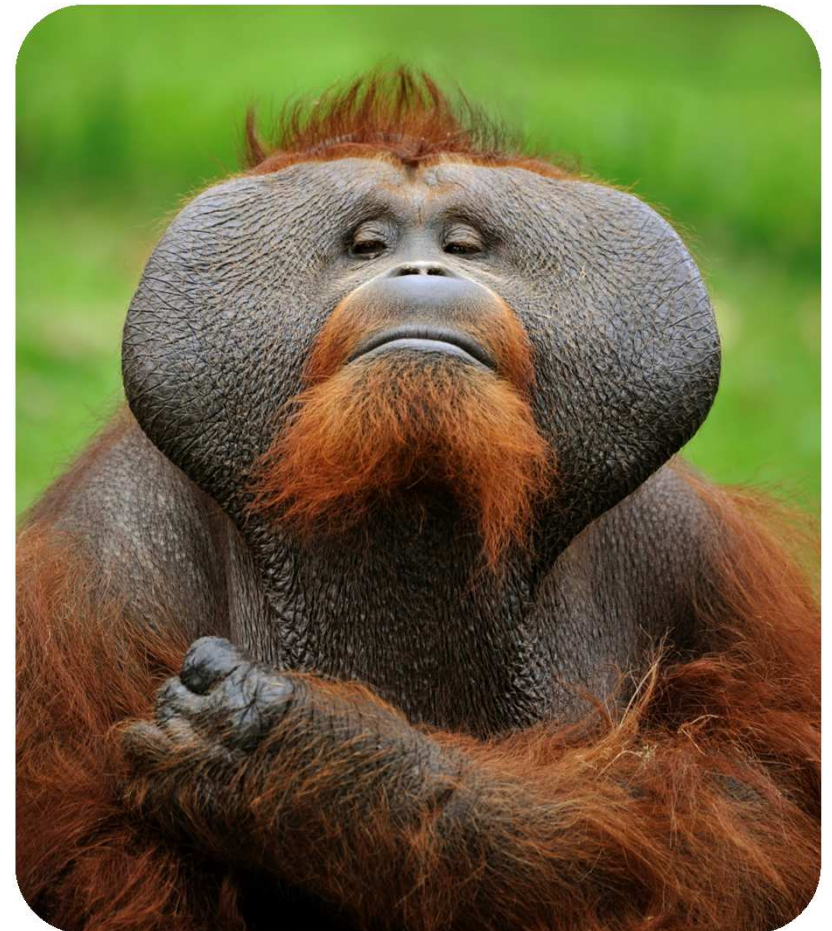
- Export objects
- Apply deltas
- Import objects
- Compile

Delete sandbox

Create to NavApp Metadata records



Let's have a look what a serious extension could look like...



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ISOLATED DEVELOPMENT ENVIRONMENT

Deltas are crucial

- An “Extension” could be seen as a set of deltas
- Original / Modified

Your DEV environment should be based on the prerequisites of the “Extension”:

- Dynamics NAV
- Your Vertical

Whoever develops the “Extension”, NEVER works on the “on-going” dev database of your vertical.

- Treat an “Extension” as being a separate product
- Therefor a separate development environment

ALWAYS TEST AS AN EXTENSION

You should never expect your extension to work as it would as normal development.

There are quite some limitations – some that you would not expect.

- Business Charts
- New Functions on existing table
- Code on new actions



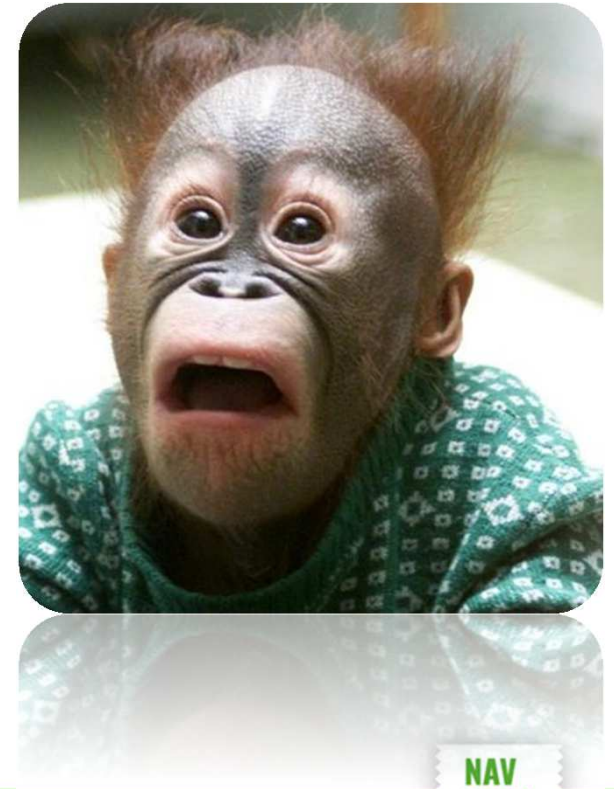
POWERSHELL CAN HELP...

Prepare your DEV Environment

- Original Database
- Development Database
- Test Database

A build script that

- Create NavX
 - Create/update manifest (increment version)
 - Export Original (if necessary)
 - Export Modified (if necessary)
 - Create Delta's
 - Create NAVx with Manifest & Delta's
- Deploy NavX
 - Check if app is already installed in tenant
 - If installed: remove
 - Publish new version
 - Install new version in tenant



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HOOKING INTO DEFAULT FUNCTIONALITY

Eventing

When you're doing Extensions to your own product, YOU decide which events there are in the product. No limitations in terms of events.

When you're doing Extensions to the default NAV product, you depend on the events that Microsoft has published.

A lot of scenarios depend on which events exist

[Published events from Microsoft](#)



EVENTING BEST PRACTICES

Publishers

- Publish a local function on the object where it is raised
- Only raise an event once
- Very strict naming convention:
 - Bad: OnAfterCommit in codeunit 50000 Sales Management
 - Good: OnAfterPostDocument in Codeunit 80 Sales-Post

Subscribers

- A dedicated codeunit which holds all your subscription codeunit
- Decouple: call out to the corresponding method
- Very strict naming convention:
 - Bad: OnAfterPostDocument – it doesn't explain what it's doing
 - Good: CreateRentalItemEntry or AddGeolocationToCustomerOnModify



VISUALIZATIONS

Custom Add-Ins: not possible!

Default Add-Ins: not possible!

Be creative



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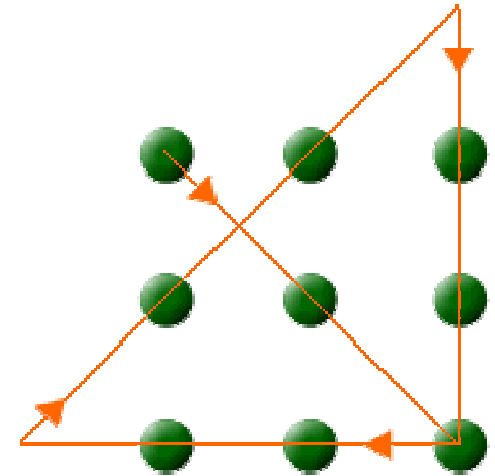
UPGRADING AN APP

Upgrade means: Uninstall/Install

Uninstall is going to remove the app, including added tables and fields

Data is moved to the "NAV App Data Archive" tables

When installing an app, the app is able to get the data from the data archive



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HOW GETTING DATA FROM THE ARCHIVE?

Part of your Extension, create a codeunit with these global functions

- OnNavAppUpgradePerDatabase
- OnNavAppUpgradePerCompany

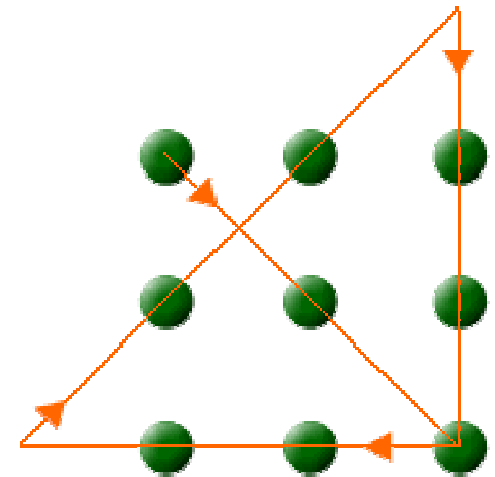
Get Archive Info with:

- NAVAPP.GETARCHIVERECORDREF (TableId, var RecordRef)
- NAVAPP.GETARCHIVEVERSION

You can be quite generic

- Restore data for every added field in a default table
- Restore data for every added table

Implement data upgrade already in first version



POSSIBLE TODAY

Table

- New fields
- New Tables

Pages

- New Page
- New actions
- New groups
- New Fields
- Factboxes

MenuSuite

Codeunits

Events

NOT POSSIBLE TODAY

XMLPorts

Queries

Reports

Add-Ins

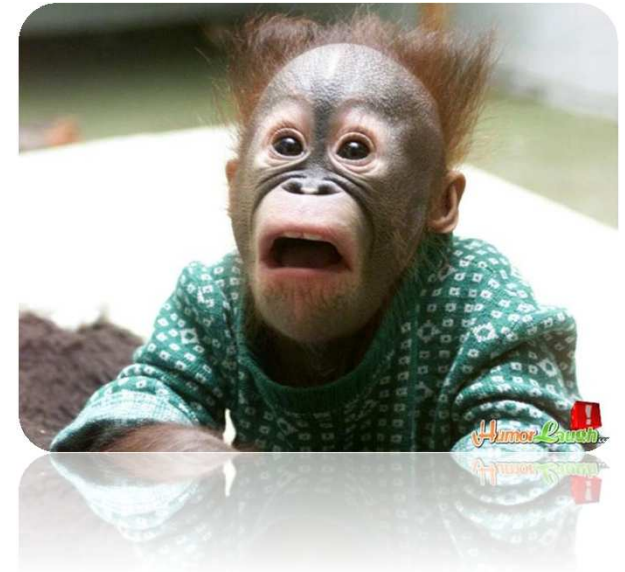
Publish Web Services based on new objects

Delete objects

Change code



Sometimes you'll need to step
away from decent (code) design



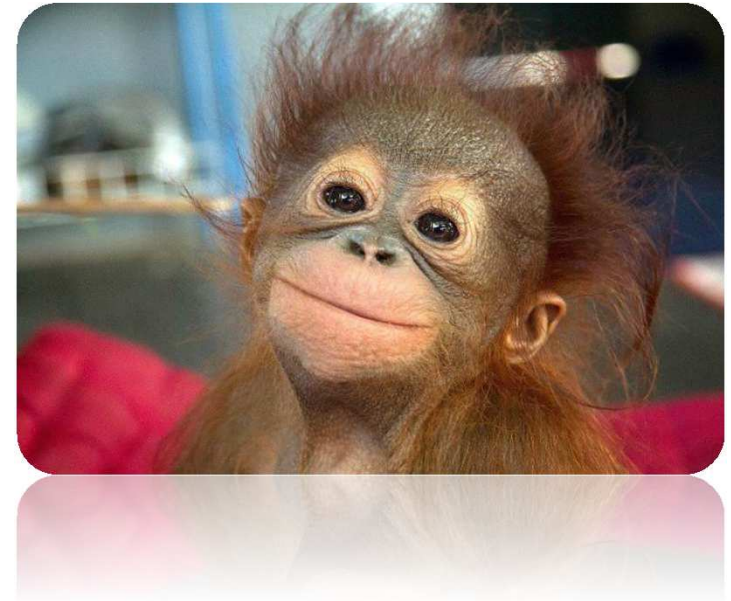
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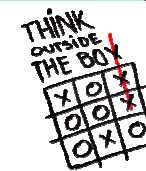
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SECURITY



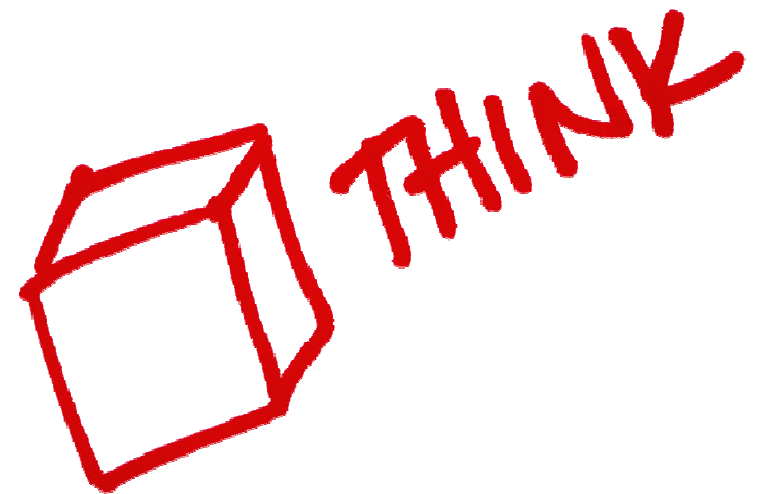
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WHAT USER IS EXECUTING CODE?

- User account that is logged in NAV
- Service account of the NST
- Service account of SQL Server



Who thinks it's the SQL Server Service Account?



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Who thinks it's the user account of
the user that is logged into NAV?



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Who thinks it's the NST Service Account?



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**Should it be local admin or
domain admin?**



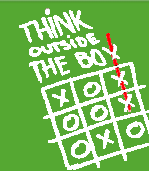
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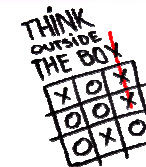
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HELP

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CREATE NAV HELP FROM WORD DOCUMENT

Save word as a HTML

Read through it, and cut all sections of H1, H2, ... to separate HTML files

Create references in H1 to all H2's

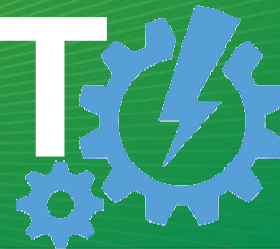
Generate the TOC based on the Headers

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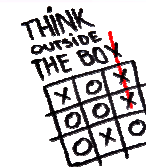
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NAVMGT

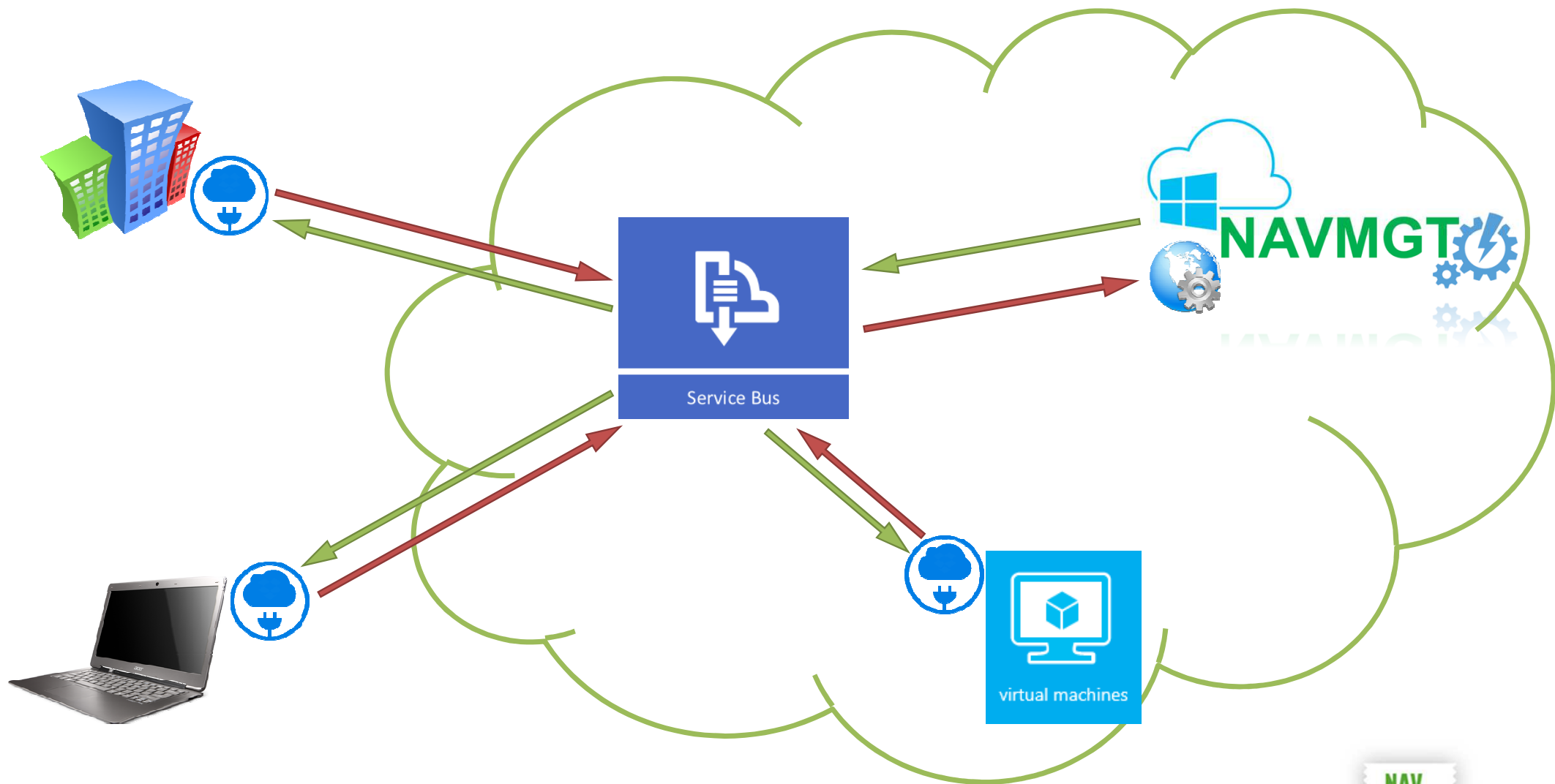


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NAVMGT FUNCTIONALITIES

Install On-Premise and Cloud NAV Environments

Manage in-house NAV environments (DEV Environments)

Monitoring & Alerting

- Backups
- Services
- NAS, ...)

RDP Access to monitored servers, with encrypted passwords



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RESOURCES

My Blog: www.waldo.be

My PowerShell Scripts: www.github.com/waldo1001

Magno's blog: www.nav-magno.be

Vjeko's blog: www.vjeko.com

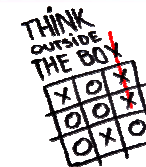


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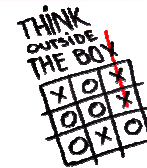
Any Questions?

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THANK YOU

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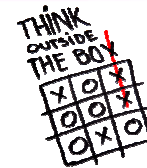




COFFEE BREAK

see you back in 30 min.

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