Sealing and Deploy your Master Image Best Practices

Matthias Schlimm | Trond Eirik Haavarstein | Pitre Jonathan





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an orange Business Services company

About us

- Trond Eirik Haavarstein (Fulltime Automator, Blogger and Trainer)
 - Citrix CTP, VMware EUC, Nutanix NTC, Atlantis ACE, Parallels VIPP
 - Automation Framework and 3 Day Master Class
 - Twitter: <u>@xenappblog</u>
- Matthias Schlimm (IT-Architect, Login Consultants Germany)
 - Citrix experience since 1998 (WinFrame 1.8)
 - Planning, Design, Implementation Citrix Infrastructure, PVS experience since 2008, Version 5.0
 - Like scripting and automation, mostly PoSH
 - Twitter: <u>@MatthiasSchlimm</u>
- Jonathan Pitre (Technology Specialist, Oriso Solutions)
 - CTA Citrix Technology Advocate
 - Planning, Design, Implementation Citrix Infrastructure
 - Automation, Update fanatisc
 - Twitter: <u>@PitreJonathan</u>



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Class

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Agenda

- •MCS and PVS Backend optimizations
- Image preparation & Demo
- Necassary steps
- •How to handle sealing and personalization ?
- Base Image optimizations
- Internals and future plans
- •Q & A



Citrix MCS

- Image preparation need additional stuff, on site or machine catalog level
 - Set-ProvServiceConfigurationData -Name ImageManagementPrep_Excluded_Steps -Value EnableDHCP
 - Set-ProvServiceConfigurationData -Name ImageManagementPrep_Excluded_Steps -Value OsRearm
 - Set-ProvServiceConfigurationData -Name ImageManagementPrep_DoImagePreparation -Value \$false
- On Master Image activate Logging
 - HKLM\Software\Citrix\MachineIdentityServiceAgent
 - ValueName LOGGING | ValueType DWORD32 | Value 1
- Prevent Shutdown on the ImagePrep VM to analize the logs
 - Set-ProvServiceConfigurationData -Name ImageManagementPrep_NoAutoShutdown -Value \$True

https://www.citrix.com/blogs/2016/04/04/machine-creation-service-image-preparation-overview-and-fault-finding



Citrix PVS

- Boot storms (PVS Accelerator can help)
- PVS servers can handle 160 Devices by default
 - "# of ports" x "# of threads/port" = "max clients".
 - Default: 20 Ports * 8 Threads per port = 160 max clients
 - Example: 50 Ports * 10 Threads per Port= 500 max clients (Ports: 6910 6960)
- Multihomed Network to split PVS Stream and ICA Network not necessary
- PVS installed on Hardware:
 - Controller Settings: 75% read / 25% write
 - Caching Settings: Enable Write Cache when Battery Capacitor not present or not completely charged – set to Disabled



Image preparation

- Automate the building process of the Base Image (avoid human errors)
- Automate the sealing process
- MCS and PVS sealing is different
 - Defrag running on base image only (vhd/vhdx only)
 - P2PVS running on base image only
 - Defrag arguments depends on OS type
- Personalization difference, based on deployment type
 - MCS Private, MCS Shared, PVS Private, PVS Shared
 - Some services must be started on private mode only



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2 Provisioning Services Console	Name	Site	Connections	Size	Mode	Class	Description
⊿ 🚟 Farm (localhost)	WV7SP1PVS-Rev01	Site	0	40 960 MB	Private		
⊿ 😃 Sites	VWS12PVS-Rev01	Site	0	61 440 MB	Cache in Device RAM with Overflow on Hard Disk: 512 ME	J	
⊿ 🔯 Site	WS12PVS-Rev02	Site	3	61 440 MB	Cache in Device RAM with Overflow on Hard Disk: 512 ME	1	
🔛 Servers	VWS16PVS-Rev01	Site	0	61 440 MB	Cache in Device RAM with Overflow on Hard Disk: 512 ME	l	
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Device Collections							
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WS16 MI							
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Image preparation

- Necassary steps Part 1:
 - Clear eventlog
 - Delete ghost NIC's
 - Reset MS Distributed Transaction Service
 - MS Message Queuing clear cache & QMID
 - Delete local profiles that are not required
 - Delete Citrix Profile Manager log & cache
 - Rename UPM ini if using GPO configuration
 - Grace Period Fix for RDS
 - Clear App-V Cache
 - HOT: Office Licensing issue since VDA 7.9

HKLM\SYSTEM\CurrentControlSet\services\CtxUvi ValueName UviProcessExcludes | ValueType REG_SZ | Value sppsvc.exe https://discussions.citrix.com/topic/381105-office-license-error-after-upgrade-to-vda-79/page-3



Image preparation

- Necassary steps Part 2:
 - Stop DHCP Client Service
 - Delete IP Informations in registry
 - Antivirus: Run full scan & de-personalization
 - SSCM / SCOM: de-personalization
 - AppSense / RES / 3rd Party tools: de-personalization
 - Rearm Operating System and Office
 - Defrag disk
 - Clear Citrix EdgeSight Cache
 - Redirect Citrix WEM Cache
 - XenApp 6.5 PVS preparation steps
 - Disable or remove unneeded schedule tasks
 - Is Cortana really neeed in virtual environments ?
 - Format the PVS WriteCache Disk





How to handle sealing and personalization ?



What is **BIS-F**



Base Image Script Framework

The perfect way to seal your image

- 100 % PowerShell driven
- Microsft RDSH & VDI, Citrix XA & XD with MCS or PVS, VMware Horizon View
- Optimize the Base Image, if...
 - Installed from scratch
 - Updating the Base Image
- Remove unique identifiers according to vendor Best Practices to prevent ghost or duplicate entries on Management Servers



What is **BIS-F**



Base Image Script Framework

The perfect way to seal your image

- Persistent and non-persistent Images
- Automatically detect & prepare the installed software
- PVS: Format the WriteCache Disk once
- PVS: Convert Base Image to the attached vDisk
- Extend BIS-F with your're own custom scripts (PoSH only)



What is BIS-F Base Image Script Framework

The perfect way to seal your image



BIS-F is not designed...

• to install additional software



BIS-F is executed...after final Base Image build





3 steps to success



Quite simple









2. Configure

3. Run





1. Install

- Simple installer, remove previous BIS-F version (5.1.2 and earlier manually before, e.g. C:\SCRIPTS)
- Installer keep your custom scripts during update
 - <InstallDir>\Framework\SubCall\Preparation\Custom
 - <InstallDir>\Framework\SubCall\Personalization\Custom
- Supported 3rd Party Tools (not delivered with BIS-F)
 - sdelete.exe (v1.61), nvpsbind.exe, cmtrace.exe, vietool.exe, ccleaner, delprof2.exe, VMWare OS Optimization Tool (vmOSOT)
 - Search paths -> C:\Windows\System32, %ProgramFiles%, %ProgramFiles(x86)%
- Silent installation
 - Setup-BIS-F-6.0.2.exe /SILENT /log="C:\Windows\Logfiles\BIS-F.log"

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1. Install

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- Simple installer, remove previous BIS-F Version (5.1.2 and earlier manually, e.g. C:\SCRIPTS)
- Installer keep your custom scripts during update
 - <InstallDir>\Framework\SubCall\Preparation\Custom
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 - Searchpath -> C:\Windows\system32, %Programfiles%, %programfiles(x86)%
- Silent install
 - Setup-BIS-F-6.0.2.exe /SILENT /log="C:\Windows\Logfiles\BIS-F.log"



1. Install

😃 Setup - Base Image Script Framework (BIS-F)

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Completing the Base Image Script Framework (BIS-F) Setup Wizard

Setup has finished installing Base Image Script Framework (BIS-F) on your computer. The application may be launched by selecting the installed shortcuts.

Click Finish to exit Setup.

✓ View the Release Notes

View Admin Guide (PDF Viewer required)

< Back

Finish

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- ADMX template
 - Required for complete and silent automation
 - Located in BIS-F installation folder, manually copy to central store
 - Alternative: Message boxes during sealing (run) process
 - NOTE: In Next BIS-F Version, message boxes will be removed, ADMX required







📋 3rd Party Tools	
Select an item to view its description.	Setting
	🗈 Run CCleaner
	🗈 Run DelProf2
	🗈 Disable IPv6
	🗈 Run SDelete
	🗈 Vmware OS Optimization Tool



	- 2rd Darby Tarala	
	📋 Citrix	
S	Select an item to view its description.	Setting
		Fallback to P2PVS if XenConvert if installed
		 Rebuild Performance Counters XA 6.x only - Remove current XenApp server from the Farm and clear local database information



	2nd Darty Tack		
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Se	Select an item to view its description.	Setting	
		🗈 Run Defrag	
		Enable RDP Session support	
		🗈 Configure central log share for Device Personalization	
		🗈 Suppress Pending Reboot	m and clear local database information
	•	📰 Shutdown Base Image after sealing	
		📰 Run Sysprep	
		📰 Configure VerySilent	
		📄 Delete AllUsersStartMenu content	





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		52.	Select an item to view its description.	Setting		
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			Sel	Miscellaneous Select an item to view its description.	Setting Run AntiVirus full scan FSLogix: Configure FSLogix central rules share FSLogix: Delete rules on Base Image RES: RES ONE Automation Agent Turbo: Run Turbo Update Run Symantec VIE Tool	cal database information



2. Configure

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	•			📋 Novell			
				Select an item to view its description.	Setting 📰 configure Novell ZCM Agent webbased	configuration URL	
					Run Symantec VIE Tool		





3. Run

« Program Files (x86)	> Base Image Script Framework (BIS-F) >
Name	Date modified
ADMX	3/23/2017 2:12 PM
Framework	3/23/2017 2:12 PM
💿 PrepareBaselmage	3/23/2017 1·50 PM
ReleaseNotes	Open
unins000.dat	Edit
😃 unins000	Print
	😌 Run as administrator
	7-Zip





3. Run

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Check:	g Prerequisites
	No Central LogShare would be configured, the local math would be used
Produc	Citrix XenDesktop Virtual Desktop Agent (VDA) (Version 7,13.0.13) installed
Produc	Citrix Provisioning Services Target Device Driver (PVS) (Version 7.13.0.13008) installed
Produc	Microsoft App-V Client (Version 10.0.14393.594 (rs1_release_inmarket.161213-1754)) installed
	 The client service is not running. The Script cannot clean up package files.
Produc	CMTrace installed
Produc	Heat DSM (Version 7.3.2.3660) installed
	Properaring Heat DSA for Imaging
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3. Run

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the BIS-F Shortut on your Desktop		
ld vour Base-Image now		
> Mode HD - Boot from HardDisk in Private Mode		
> Looking for the P2PV5 Logfile		
> If you see a windows popup to format the disk, please click Cancel or do nothing !		

Optimizing your Image



Optimizing the right way!



Microsoft Optimizations

- Windows Server 2008, 2008 R2, 2012, 2012 R2, 2016
- Windows 7, 8, 8.1, 10
- Delete WSUS Client-ID
- Delete WSUS SoftwareDistribution folder
- Reset Performance Counters
- Delete temp files with CCleaner (3rd Party CCleaner must be installed first)
- Delete local profiles that are not required (3rd Party DelProf2 needed in C:\Windows\System32)
- Delete Windows event logs
- Reclaim storage space on PVS WriteCache Disk (3rd Party SDelete needed in C:\Windows\System32)
- Rearm Operating System once
- Rearm Microsoft Office (2010, 2013, 2016) once x86 only
- Delete DHCP Client information in registry
- Defrag system disk
- Delete AllUsers StartMenu
- Disable IPv6 (3rd Party nvpsbind needed in C:\Windows\System32)
- Add delay between time sync and GPO processing
- Disable unneeded scheduled tasks
- Pending Reboot detection
- Grace Period Fix for RDS
- .NET Optimizations



AntiVirus

- Trend Micro
- Symantec Endpoint Protection (3rd party vietool needed in C:\Windows\System32)
- McAfee VirusScan Enterprise
- Microsoft EndPoint Security Client
- Kaspersky AntiVirus
- Sophos AntiVirus

Electronic Software Deployment (ESD)

- Microsoft SCCM Agent
- Novell ZCM Agent
- Altiris Deployment Agent
- Matrix42 Agent
- Heat DSM (prev. NetInstall)



Application Virtualization

- FSLogix
- Microsoft App-V Client
- Ivanti AppSense
- RES ONE Automation Agent
- RES ONE Automation Console
- RES ONE Automation
- RES ONE Service Store Client Service
- Turbo.net

System Monitoring

Microsoft System Center Operations Manager Agent

- •Splunk Universal Forwarder
- •uberAgent



• Citrix

- Citrix XenApp 6.x (IMA)
- Citrix XenApp/XenDesktop 7.x (FMA)
- Citrix Machine Creation Service (MCS) 7.x
- Citrix Provisioning Server Target Device Driver (PVS) 5.6 7.x
- Format automatically the Citrix WriteCache Disk once
- XenDesktop Personal vDisk (PvD) Inventory Update (Windows 7, 8.x, 10 only)
- Fix for MSMQ Service (required for Session Recording)
- Reset Citrix Application Streaming offline database
- Delete Citrix Streaming Cache (RadeCache)
- Delete Citrix Profile Management cache
- Delete Citrix EdgeSight client data
- Citrix Environment Management Agent (WEM) configure Cache

VMware

- VMware Horizon View detection
- VMware OS Optimization Tool (vmOSOT) with default OS Template



BIS-F internal's and future plans





Team BIS-F



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Mike Bijl – Login Consultants Netherlands Senior Consultant



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Contact us:







History

Downloads 22.05.2017





Future Plans

- Remove all non present devices from Device Manager
- Logfile retention via ADMX (hardcoded, keep last 5 logs)
- Citrix AppLayering Support
- AntiVirus F-Secure Support
- UEFI Support
- VMware OS Optimization Tool, select template in ADMX
- Replace BIS-F scheduled Task with service
- Delete orphan printers from registry and defrag registry (faster logins)
- Cleanmgr.exe support (reboot required)
- Citrix System Optimizer (available soon)



World-Wide BIS-F Customers



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Thank you



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