Microsoft 365 Powered Device Proof of Concept

Hydration Getting Started Guide

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Contents

[1. Introduction 4](#_Toc515872700)

[1.1. Hardware and Software Requirements 4](#_Toc515872701)

[1.1.1. Hyper-V Hydration 4](#_Toc515872702)

[1.1.2. Azure Hydration 4](#_Toc515872703)

[1.2. Obtaining Hydration 5](#_Toc515872704)

[2. Introduction to Hydration 6](#_Toc515872705)

[3. Starting with Hydration – On-Premises (Hyper-V) 8](#_Toc515872706)

[3.1. Provision a Lab – On-Premises (Hyper-V) 9](#_Toc515872707)

[3.2. Cleanup 11](#_Toc515872708)

[4. Starting with Hydration – Azure 12](#_Toc515872709)

[4.1. Provision a Lab – Azure 12](#_Toc515872710)

[4.2. Cleanup 14](#_Toc515872711)

[5. Appendices 16](#_Toc515872712)

[5.1. Appendix A – Product Installation Files 16](#_Toc515872713)

1. Introduction

Hydration 1803 provides a fully automated approach creating a lab or testing environment based on Windows Server 2012 R2 or 2016. The lab may be provisioned onto a Hyper-V server installed on Windows Server 2012 R2, 2016 or in Azure Infrastructure as a Service (IaaS). Azure Hydration only supports those server roles and products that are supported in Azure IaaS.

* 1. Hardware and Software Requirements

Hydration 1803 supports the 64-bit editions of Windows 10, Windows Server 2012 R2 and 2016. Hydration may be performed on any of these platforms to deploy a lab once Hyper-V is installed.

For Azure hydration, the host system must support the installation of the Azure PowerShell.

* + 1. Hyper-V Hydration

For Hyper-V Hydration, the following minimum specifications must be met:

**Device that Hydration is performed from:**

* Hyper-V role installed.
* Administrative rights on the device.
* 250 gigabytes of free disk space.
* High-throughput disk subsystem.
* 32 gigabytes of available memory.
* A virtual switch in Hyper-V connecting to the external adapter of the host machine for internet connectivity.

The required hardware will vary based on the scale of the provisioned lab and the physical resources assigned to each virtual machine.

* + 1. Azure Hydration

For Azure Hydration, the following minimum specifications must be met:

**Device that Hydration is performed from:**

* Administrative rights on the device.
* Microsoft Azure PowerShell (<https://docs.microsoft.com/en-us/powershell/azure/install-azurerm-ps?view=azurermps-4.0.0>).
* Up to 200Mb – 25Gb of free disk space, depending on whether source files are required.

**Important Notes:**

* For virtual machines provisioned in Azure, larger virtual machine sizes will incur a higher cost.
* The **preferred option** to use for Azure Hydration is the **Lite Version** of the Hydration Kit using **Hydration1803.zip**, which will obtain evaluation installation files for the required products as it takes advantage of the high-speed internet connectivity within Azure.
* When performing Azure Hydration, the **HydrationParent.vhd** will be uploaded to an Azure Storage Account. If the **HydrationParent.vhd** is already populated with source files as in the case with the **Full Version** of the Hydration Kit using **Hydration1803-InclEvalSource.zip**, the duration of the upload will vary depending on the internet connection between the host computer and the internet.
  1. Obtaining Hydration

Hydration may be obtained by visiting the following website:

<http://aka.ms/Hydration>

<http://aka.ms/PublicHydration>

1. Introduction to Hydration

The Hydration team provides six self-extracting zip files. These files are varying packaging options to allow you to download the one most suitable for your needs.

The files are as follows:

1. **Hydration1803.zip** (178MB) – The HydrationParent.vhd in it does not contain any source files. It also does not contain the ServerParent.vhdx, which needs to be extracted and copied from ServerParent.zip or ServerParentGen1.zip files. This can be used if your lab has internet connectivity and all the roles you are installing support automatic evaluations source file download from the internet. This is the recommended package for provisioning to Azure.
2. **Hydration1803-InclEvalSource.zip** (20.2GB) –It contains evaluation source files for the products to be hydrated in HydrationParent.vhd as well as the syspreped Windows Server 2016 in ServerParent.vhdx. The other Hydration download options are not required in this case.
3. **Hydration1803–ServerParent.2012R2.zip** (4.75GB) – It contains an Evaluation Windows Server 2012 R2 **Generation 2** virtual hard disk VHDX that can be used when hydrating labs with Windows Server 2012 R2 machines. The customers must use a syspreped Windows Server 2012 R2 VHDX file, which this folder contains.
4. **Hydration1803–ServerParent.zip** (5.40GB) – It contains an Evaluation Windows Server 2016 **Generation 2** virtual hard disk VHDX that can be used when hydrating to Hyper-V. This could be used in conjunction with HydrationParent.vhd when performing hydration on a Hyper-V server. The customers must use a syspreped Windows Server 2016 VHDX file, which can be found in this folder.
5. **Hydration1803-ServerParentGen1.2012R2.zip** (4.74GB) - It contains an Evaluation Windows Server 2012 R2 **Generation 1** virtual hard disk VHDX that can be used when hydrating labs with Windows Server 2012 R2 machines. The customers must use a syspreped Windows Server 2012 R2 VHDX file, which this folder contains.
6. **Hydration1803-ServerParentGen1.zip** (5.40GB) - It contains an Evaluation Windows Server 2016 **Generation 1** virtual hard disk VHDX that can be used when hydrating to Hyper-V. This could be used in conjunction with HydrationParent.vhd when performing hydration on a Hyper-V server. The customers must use a syspreped Windows Server 2016 VHDX file, which this folder contains.

These zip files contain all the files required to perform Hydration. Once extracted Hydration will have the following folder structure:

|  |  |
| --- | --- |
| Folder | Description |
| LabDefinitions | This folder contains four sample lab definitions. |
| ParentDisks | The ServerParent.vhdx is placed in this folder.  This folder also contains the HydrationParent.vhd file. This file, together with the lab definition file is used to configure each provisioned virtual server. |
| Guides | This folder contains the Getting Started Guide. |

Note:

When hydrating on Hyper-V, the hydration process will be performed from this folder and the parent disk for the Virtual machines created during Hydration is in this folder, therefore, it is critical that these files are placed on a high-performance disk.

If Hydration in Azure fails, delete all the following items **provisioned by Hydration**, before re-running the Quick Start Wizard:

1. Virtual machines and virtual disks
2. Virtual Networks
3. DNS Server configurations in virtual networks

**Do not delete NON-Hydration content to resolve this.**

1. Starting with Hydration – On-Premises (Hyper-V)

This section will explain how to provision the lab on On-Premises Hyper-V, based on different requirements.

**Important Notes for provisioning the Lite Version of the Hydration Kit using Hydration1803.zip and Hydration1803-ServerParent.zip OR Hydration1803-ServerParentGen1.zip on On-Premises Hyper-V:**

**Note:** You must use any one of the ServerParent.vhdx disks at one point of time that is either Generation 1 OR Generation 2.

1. Extract **Hydration1803.zip** into a separate folder, preferably located on a separate drive on the Hyper-V Host.
2. Extract **Hydration1803-ServerParent.zip** into a separate folder, preferably located on a separate drive on the Hyper-V Host.
3. Extract **Hydration1803-ServerParentGen1.zip** into a separate folder, preferably located on a separate drive on the Hyper-V Host.
4. Once extracted, navigate to the drive where the .zip folder has been extracted to for **Hydration1803-ServerParent.zip**, (**in case of Generation 2**) open the folder.
5. Copy **ServerParent.vhdx** and navigate to the drive where the .zip folder has been extracted to for **Hydration1803.zip**, open the folder and then open the folder **Hydration1803\ParentDisks** and paste it there. Now, one should be able to see both **HydrationParent.vhd** and **ServerParent.vhdx**.
6. **Note:** If the Generation 1 ServerParent.vhdx is already copied then delete it before copying the Generation 2 ServerParent.vhdx.
7. Once extracted, navigate to the drive where the .zip folder has been extracted to for **Hydration1803-ServerParentGen1.zip**, (**in case of Generation 1**) open the folder.
8. Copy **ServerParent.vhdx** and navigate to the drive where the .zip folder has been extracted to for **Hydration1803.zip**, open the folder and then open the folder **Hydration1803\ParentDisks** and paste it there. Now, one should be able to see both **HydrationParent.vhd** and **ServerParent.vhdx**.
9. **Note:** If the Generation 2 ServerParent.vhdx is already copied then delete it before copying the Generation 1 ServerParent.vhdx.
10. Now, navigate to the drive where the .zip folder has been extracted to for **Hydration1803.zip**, open the folder and then open the folder **Hydration1803** and follow the steps from **Step-3 to 14** below for **On-Premises Hyper-V Hydration**.

**Important Notes for provisioning the Full Version of the Hydration Kit using Hydration1803-InclEvalSource.zip on On-Premises Hyper-V:**

1. Follow all the steps below from **Step-1 to 14** for **On-Premises Hyper-V Hydration**.
   1. Provision a Lab – On-Premises (Hyper-V)

| Task | Detailed Steps |
| --- | --- |
| **Complete these steps on an Internet-Connected Hyper-V Host:** | |
| Hyper-V Host  Provision a Lab – On-Premises | 1. Extract **Hydration1803-InclEvalSource.zip** into a separate folder, preferably located on a separate drive on the Hyper-V Host. 2. Once extracted, navigate to the drive where the .zip folder has been extracted to, open the folder and then open the folder **Hydration1803**. 3. Right-click on **SetupLab.ps1** then select **Properties**. 4. Under **Security**, if visible, click **Unblock**, then click **OK**. 5. Perform **Steps 3 – 4** for **Convert-Wim2VHD.ps1**. 6. Launch **Setup.exe** with elevated rights. The Setup Wizard will launch. Accept the UAC prompt. 7. On the Setup Wizard, Welcome screen, click **Next**. 8. On the License screen, review the license terms and click **Next**. 9. On the Profile screen, select the following profile and click **Next**:  * **REF-OP-ModernDesktop.XML:** For Modern Desktop On-Premises Hyper-V Hydration  1. On the System Center Choice screen, select the required **System Center Configuration Manager version** **(Default is 1802)** and click **Next**. 2. On the Settings screen, enter the following information and click **Next**:   **Note:** A tooltip appears for each of the fields in the Name and Value columns.   * **Customer Name:** Customer’s organization name. **Example:** FirstName LastName * **Customer Contact:** Customer contact full name. **Example:** Contoso Corporation * **Customer Contact Email:** Customer contact email address. **Example:** FirstName.LastName@contoso.com * **Customer Contact Phone:** Customer contact phone number. **Example:** 123-456-7890 * **Consultant Name:** Consultant full name. **Example:** FirstName LastName * **Consultant Email:** Consultant’s email address. **Example:** Firstname.Lastname@deliveryorg.com * **Consultant Phone:** Consultant’s telephone number. **Example:** 987-654-3210 * **Lab Identifier:** Unique prefix that is added to all virtual devices and files created by hydration from this lab definition. **Example:** HYD * **Lab Store:** Folder in which the lab should be stored. A subfolder will be created and named using the lab identifier provided above. **Example:** .\Hydration * **Public FQDN:** Fully qualified Domain Name. **Example:** contoso.com * **Internal DNS Domain Name:** Internal name. **Example:** corp.contoso.com * **Internal NetBIOS Domain Name:** Internal domain. **Example:** CORP * **Public DNS Server:** Publicly available DNS server for internet connectivity. **Example:** 209.244.0.3  1. On the Ready screen, click **Next**. 2. On the *HOST\USERNAME* (Elevated) screen, review the scripts being executed and once finished, click the **Hyper-V Manager** link to launch the Hyper-V Console. Click **Next** for the Setup Wizard to close. 3. Wait for some time for the Virtual Machines to start and get provisioned. The Virtual Machines would be completed if it is either **turned off** or there is **no installation progress bar**.   **Notes:**   * A MDT deployment summary screen will **only** be displayed if there are errors in the provisioning. * All the VMs will be turned off after provisioning is complete except for **GW1** and **DC1**. * There will be a copy of the pre-existing profile based on what profile has been selected on the Profile screen and based on what information has been entered in the Settings screen. Example – If **REF-OP-ModernDesktop.xml** is selected in the Profile screen and custom information has been entered in the Settings screen, a copy of **REF-OP-ModernDesktop.XML** will be created, **Example:** **REF-OP-ModernDesktop.XML.20154726\_014730.xml** with the custom information entered in the Settings screen. All Lab Definition Files are located at **\Hydration1803\LabDefinitions**. * A batch script called **start.cmd** will be created in the **\Hydration1803** folder. This script will execute the **SetupLab.ps1** and the **Convert-Wim2VHD.ps1** PowerShell script, along with the Lab Definition File, use the external virtual switch in the Hyper-V host connecting to the Internet and further provision and start the lab. For the log file, the **LabSetup.log** can be referenced. * Another batch script is created in the **\Hydration1803** folder called **clean.cmd**. This script is used to dismount and remove **HydrationParent.vhd** or **HydrationParent.vhdx** from the Hyper-V Host. All the server based and the first four client based virtual machines will be shut down and checkpoints will be created for each. The 5th and the 6th client based virtual machines will already be created with a checkpoint each, after the lab is provisioned and are in a shutdown state. * Another batch script is created in the **\Hydration1803** folder called **purge.cmd**. This script is used to remove or delete all the virtual machines, and the virtual switches created from the Hyper-V Console. * The **\Hydration1803\Hydration**, is the folder where the lab has been stored. HYD is the unique prefix added to all the virtual devices and the files which have been created by hydration from the Lab Definition File by default. |

* 1. Cleanup

Once the provisioned lab is functional, the **HydrationParent.vhd** along with each differencing disk attached to the guests, must be dismounted and removed from the customer’s environment. Also, the guests and the virtual switches created can be removed from the customer’s environment.

This may be achieved from a batch script file that is created in the **\Hydration1803** folder called **clean.cmd**. This script is used to dismount and remove **HydrationParent.vhd** from all the guests and the Hyper-V Host. The script will also shutdown each guest within the specific lab instance and create virtual machine checkpoints.

There is another batch script file that is created in the **\Hydration1803** folder called **purge.cmd**. This script can be used to remove or delete all the guests and the virtual switches created from the Hyper-V Host.

**Clean.cmd** is run with elevated rights, accept the UAC prompt and at the prompt press **Y** and press enter.

**Purge.cmd** is run with elevated rights, accept the UAC prompt and at the prompt press **Y** and press enter.

**Note**: In the Server based VMs, if any service is stopped or not installed due to the latency in provisioning, start or install that service as per Section 3.1 of the lab guide.

1. Starting with Hydration – Azure

This section will explain how to provision the lab on Windows Azure environment to create the different virtual machines.

Before running Hydration, make sure that there is no existing Resource Group with the name “**Hydration10**”.

You will also need the following information:

1. The Azure **Location** that your VM’s will be created in.
2. Your **Azure Subscription Logon Details**.
3. Your **External Domain Name** for example demolab.com. But this is not mandatory.
   1. Provision a Lab – Azure

|  |  |
| --- | --- |
| Task | Detailed Steps |
| Complete these steps from an internet-connected Windows computer. **Make sure you are logged on to the management portal of portal.azure.com.** | |
| Install Windows Azure PowerShell | 1. Start Internet Explorer and navigate to <https://docs.microsoft.com/en-us/powershell/azure/install-azurerm-ps?view=azurermps-4.0.0>. 2. **Follow the steps** provided to install the Azure & Azure RM PowerShell modules. |
| Extract Hydration Files | 1. Extract **Hydration1803.zip** into a separate folder, preferably located on a separate drive on the Hyper-V Host. 2. Once extracted, navigate to the drive where the .zip folder has been extracted to, open the folder and then open the folder **Hydration1803**.   **Notes:**   * For virtual machines provisioned in Azure, larger virtual machine sizes will incur a higher cost as in the case with the **Full Version** of the Hydration Kit using **Hydration1803-InclEvalSource.zip**. * The **preferred option** to use for Azure Hydration is the **Lite Version** of the Hydration Kit using **Hydration1803.zip**, which will obtain evaluation installation files for the required products as it takes advantage of the high-speed internet connectivity within Azure. * When performing Azure Hydration, the **HydrationParent.vhd** will be uploaded to an Azure Storage Account. If the **HydrationParent.vhd** is already populated with source files as in the case with the **Full Version** of the Hydration Kit using **Hydration1803-InclEvalSource.zip**, the duration of the upload will vary depending on the internet connection between the host computer and the internet. |
| Provision a Lab - Azure | * Navigate to the drive where the .zip folder has been extracted to, open the folder and then open the folder **Hydration1803**.  1. Right-click on **SetupLab.ps1** and **Convert-Wim2VHD.ps1** then select **Properties**. Under **Security**, if visible, click **Unblock**, then click **OK** for both. 2. Launch **Setup.exe** with elevated rights. The Setup Wizard will launch. Accept the UAC prompt. 3. On the Setup Wizard, Welcome screen, click **Next.** 4. On the License screen, review the license terms and click **Next**. 5. On the Profile screen, select the following profile and click **Next**.In case where the trial tenant is being re-used, make sure the previously created resource group and other resources are deleted.  * **REF-AZ-ModernDesktop.xml:** For Modern Desktop Azure Hydration **(MSDN Only)**.   **OR**   * **REF-AZ-EnterpriseMobilitySuite.xml:** For Azure Hydration WITHOUT Configuration Manager.   **OR**   * **REF-AZ-EnterpriseMobilitySuiteWithCM.xml:** For Azure Hydration WITH Configuration Manager.If you have already run Azure Hydration with the Profile - **REF-AZ-EnterpriseMobilitySuite.xml** first, you can run Azure Hydration with the Profile - **REF-AZ-EnterpriseMobilitySuiteWithCM.xml**, without cleaning up the environment. This will skip the other steps and directly work on the Configuration Manager virtual machine.  1. On the System Center Choice screen, select the required **System Center Configuration Manager version** **(Default is 1802)** and click **Next**.   **Note**: The System Center Choice will only be applicable if the **REF-AZ-EnterpriseMobilitySuiteWithCM.xml** or **REF-AZ-ModernDesktop.xml** was selected previously.   1. On the Settings screen, enter the following information and click **Next**:   **Note:** A tooltip appears for each of the fields in the Name and Value columns.   * **Customer Name:** Customer’s organization name. **Example:** FirstName LastName * **Customer Contact:** Customer contact full name. **Example:** Contoso Corporation * **Customer Contact Email:** Customer contact email address. **Example:** FirstName.LastName@contoso.com * **Customer Contact Phone:** Customer contact phone number. **Example: 123-456-7890** * **Consultant Name:** Consultant full name. **Example:** FirstName LastName * **Consultant Email:** Consultant’s email address**. Example:** Firstname.Lastname@deliveryorg.com * **Consultant Phone:** Consultant’s telephone number. **Example:** 987-654-3210 * **Lab Identifier:** Unique prefix that is added to all virtual devices and files created by hydration from this lab definition. **Example:** HYD * **Lab Store:** Folder in which the lab should be stored. A subfolder will be created and named using the lab identifier provided above. **Example:** .\Hydration * **Public FQDN:** Fully qualified Domain Name. **Example:** contoso.com * **Internal DNS Domain Name:** Internal name. **Example:** corp.contoso.com * **Internal NetBIOS Domain Name:** Internal domain. **Example:** CORP * **Azure Site:** The Location that will be configured for Azure resources. **Example:** Central US (Default)  1. On the Prompt screen, enter a **UserName** and **Password** for the remote desktop credentials of the Azure VMs. This will be used to connect to the VMs remotely. Click **Next**. 2. On the *HOST\USERNAME* (Elevated) screen, in the initial phase, in the Sign in to your account window, enter the **Azure Subscription Logon Details**, click **Sign in**. Review the scripts being executed. Execution of the scripts will take up to 60 minutes. Periodically check in its progress to make sure it completes successfully. The scripts will present several warnings in yellow throughout the execution. These are normal and expected. Once finished, the wizard will close automatically. 3. Once the Virtual Machines in Azure are provisioned, the MDT Deployment Summary screen will be displayed with Success or Errors. Click **Finish**  Also, in the case of **REF-AZ-ModernDesktop.xml**, **APP1** and **CM1** will be turned off after provisioning is complete.. **Note:** If you do not see the MDT Deployment progress in any one of the Virtual Machines, re-run the kit again after cleanup.   **Notes:**   * There will be a copy of the pre-existing profile based on what profile has been selected on the Profile screen and based on what information has been entered in the Settings screen. Example – If **REF-AZ-EnterpriseMobilitySuite.xml** or **REF-AZ-EnterpriseMobilitySuiteWithCM.xml** or **REF-AZ-ModernDesktop.xml** are selected in the Profile screen and custom information has been entered in the Settings screen, a copy of **REF-AZ-EnterpriseMobilitySuite.xml** will be created, **Example:** **REF-AZ-EnterpriseMobilitySuite.xml.20155029\_025051.xml** or a copy of **REF-AZ-EnterpriseMobilitySuiteWithCM.xml** will be created, **Example:** **REF-AZ-EnterpriseMobilitySuiteWithCM.xml.20155029\_025051.xml** or a copy of **REF-AZ-ModernDesktop.xml** will be created, **Example:** **REF-AZ-ModernDesktop.xml.20155029\_025051.xml** with the custom information entered in the Settings screen. All Lab Definition Files are located at **\Hydration1803\LabDefinitions**. * A batch script called **start.cmd** will be created in the **\Hydration1803** folder. This script will execute the **SetupLab.ps1** PowerShell script, along with the Lab Definition File, and further provision and start the lab. For the log file, the **LabSetup.log** can be referenced. |

* 1. Cleanup

Once the provisioned lab is no longer needed, all the resources created in the Azure environment must be removed.

1. Shutdown all the **virtual machines** created in Azure. You can shutdown directly from the **RDP session** or you can shut down from the **Azure console**.
2. Delete the **virtual machines** created in Azure along with their **attached disks**.
3. Delete **all the items** in the **resource group** along with the **resource group** itself.

Also, if you have multiple Azure Subscriptions being managed on the machine from where you will run the Azure Hydration, perform the following steps before running the Azure Hydration:

1. Launch **Windows PowerShell** with elevated rights. Accept the UAC prompt.
2. Execute the PowerShell Command – **Get-AzureSubscription**. This will list the Azure Subscriptions being managed along with their **SubscriptionId**.
3. Execute the PowerShell Command – **Remove-AzureSubscription –SubscriptionId <*Subscription ID of the Azure Subscription*>**, one by one for all the Azure Subscriptions listed.
4. Press **Y** to confirm for each Azure Subscription one by one.
5. To verify that there are no more Azure Subscriptions listed, execute the PowerShell Command – **Get-AzureSubscription**. There should be no Azure Subscriptions listed.
6. Close **Windows PowerShell**.

1. Appendices
   1. Appendix A – Product Installation Files

|  |  |  |  |
| --- | --- | --- | --- |
| Product | Source File Location | Downloaded | Supported by Azure |
| Windows Assessment and Deployment Kit | \DS-Hydration\Applications\INSTALL – ADK\Source | Yes | Yes |
| ASP.Net Model-View Controller | \DS-Hydration\Applications\INSTALL – AspNet MVC2\Source | No | Yes |
| System Center 2012 Configuration Manager | \DS-Hydration\Applications\INSTALL - ConfigMgr 2012 R2\Source  \DS-Hydration\Applications\INSTALL – ConfigMgr 2012 R2\PreReqs  \DS-Hydration\Applications\INSTALL – ConfigMgr 2012 R2\SP1 | Yes | Yes |
| System Center Configuration Manager 1802 | \DS-Hydration\Applications\INSTALL - ConfigMgr 1802\prereqs  \DS-Hydration\Applications\INSTALL - ConfigMgr 1802\Source | Yes | Yes |
| 64-bit Microsoft Visual C++ 2008 SP1 Redistributable Package | \DS-Hydration\Applications\INSTALL – Microsoft Visual C++ 2008 SP1 Redistributable Package – x64\Source | No | Yes |
| SxS for Windows features where required | \DS-Hydration\Applications\INSTALL – Net Framework 3.5\Source | Yes | Yes |
| SQL 2014 | \DS-Hydration\Applications\INSTALL - SQL 2014\Source  \DS-Hydration\Applications\INSTALL - SQL 2014\Updates | Yes | Yes |
| Group Policy Templates for User Experience Virtualization | \DS-Hydration\Applications\INSTALL – UE-V GP Templates\Source | No | Yes |
| Microsoft BitLocker Administration and Monitoring | \DS-Hydration\Applications\INSTALL - MBAM\Source | Yes | Yes |
| PoSH AAD | \DS-Hydration\Applications\INSTALL - PoSH AAD\Source | Yes | Yes |
| PoSH SSO | \DS-Hydration\Applications\INSTALL - PoSH SSO\Source | Yes | Yes |
| Microsoft Deployment Toolkit | \DS-Hydration\Applications\INSTALL - MDT\Source  \DS-Hydration\Applications\INSTALL - MDT\DS-Create  \DS-Hydration\Applications\INSTALL - MDT\DS-Deploy | Yes | Yes |
| USV Shares and GPOs | \DS-Hydration\Applications\CONFIG – USV Shares and GPOs\source | Yes | No |
| Windows 10 and Windows Server 2016 GPO Templates | \DS-Hydration\Applications\ROLE – Domain Controller\Source | Yes | Yes |
| Office 365 ProPlus | \DS-Hydration\Applications\INSTALL – Office 365 ProPlus\Source | Yes | No |
| Windows 10 April 2018 Update GPO Templates | \DS-Hydration\Applications\ROLE – Domain Controller\Source | Yes | Yes |