

APPENDIX B: HORIZON CONFIGURATION

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VMware Workspace ONE Cloud-Based Reference Architecture - Appendix B: Horizon Configuration

Appendix B: Horizon Configuration

This appendix provides details about group policy settings and Horizon Smart Policies, provided through VMware User Environment Manager™.

Horizon Group Policies

You can use standard Microsoft Group Policy Object settings to configure VMware Horizon® virtual desktops and applications, and also use VMware-provided GPO administrative templates for fine-grained control of access to features.

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OU GPO Best Practices

Use the following guidelines when applying GPO settings to organizational units (OUs):

- Re-use GPOs.
- Create separate OUs for users and computers.
- Ensure that each GPO is enabled or disabled for Computer and User settings.
- Group similar settings into one GPO.
- Understand the difference between monolithic and functional GPOs:
 - Monolithic GPOs contain settings for many different areas and are quite large. All settings are in one place. Use monolithic GPOs for generic settings that apply to all users or computers.
 - Functional GPOs contain a limited set of settings for a specific area. Functional GPOs are smaller GPOs that facilitate settings being defined for particular users or VMs.
- Link the GPOs to the OU structure (or site), and then use Security Groups to selectively apply these GPOs to particular users or computers.
- Use loopback replace to ensure that only the settings for the VM's OU are applied to the session.

This appendix contains a list of group policy settings that would typically be applied (this is not an exhaustive list). Most other settings can be applied through User Environment Manager policies. As part of the VMware Horizon® Cloud Services™ download, there is a VMware-Horizon-Extras-Bundle ZIP file that contains a set of group policy templates to assist in defining additional GPO settings.

Common GPO Settings for Desktop and RDSH Server VMs

Setting	Value
Computer Configuration/Policies/Administrative Templates/System/Group Policy/	
Configure user Group Policy loopback processing mode	Enabled Mode = Replace
Configure Logon Script Delay	Disabled
Computer Configuration/Policies/Administrative Templates/System/Logon/	
Show first sign-in animation	Disabled
Always wait for the network at computer startup and logon	Enabled

Desktop Settings

Setting	Value
Computer Configuration/Policies/Administrative Templates/System/User Profiles/	
Set roaming profile path for all users logging onto this computer	Enabled (Specify the roaming profile network share path)
Delete cached copies of roaming profiles	Enabled

RDSH Server OU-Level Settings

Setting	Value
Computer Configuration/Policies/Administrative Templates/Windows Components/Remote Desktop Services/Remote Desktop Session Host/Licensing/	
Use the specified Remote Desktop license servers	Enabled (List license servers)
Hide notifications about RD Licensing problems that affect the RD Session Host server	Enabled
Set the Remote Desktop licensing mode	Enabled (Match mode of licenses)
Computer Configuration/Policies/Administrative Templates/Windows Components/Remote Desktop Services/Remote Desktop Session Host/Profiles/	
Use mandatory profiles on the RD Session Host server	Enabled
Set path for Remote Desktop Services Roaming User Profile	Enabled
Computer Configuration/Policies/Administrative Templates/Windows Components/Remote Desktop Services/Remote Desktop Session Host/Device and Resource Redirection/	
Allow time zone redirection	Enabled

User Configuration Settings

Various settings can be used to optimize the user experience while protecting the system. The following table lists a few basic, initial settings that would normally be applied. Because these are user settings, you must also use the loopback processing setting.

Setting	Value
User Configuration/ Policies/Administrative Templates/Start Menu and Taskbar/	
Remove and prevent access to the Shut Down, Restart, Sleep and Hibernate commands	Enabled
Add Logoff to the Start Menu	Enabled
User Configuration/ Policies/Administrative Templates/Windows Components/Internet Explorer/	
Automatically activate newly installed add-ons	Enabled
User Configuration/ Policies/Administrative Templates/Windows Components/Internet Explorer/Internet Control Panel/ Security Page/	
Site to Zone Assignment List	Enabled
- Zone assignments	<URL of Identity Manager> 1 Example: https://workspace.vmweuc.com 1 <URL of ThinApp Share> 1 Example: \\vmweuc.com/files 1

User Environment Manager – Group Policy Settings

The following instructions are excerpted from the [User Environment Manager Administration Guide](#). Refer to this guide for more details on group policy settings.

1. Copy the `VMware UEM.admx` and `VMware UEM FlexEngine.admx` ADMX templates (and their corresponding ADML files) from the download package to the ADMX location as described in the [Managing Group Policy ADMX Files Step-by-Step Guide](#) on the Microsoft Web site.
2. Open the Group Policy Management Console.
 - a. Create a new GPO or select an existing GPO that is applied to the users for which you want to configure FlexEngine.
 - b. To open the Group Policy Management Editor, right-click the selected GPO and click **Edit**.

The FlexEngine ADMX template is available under **User Configuration\ Administrative Templates\VMware UEM\FlexEngine**.

3. Configure the appropriate User Environment Manager group policy settings. At a minimum, the following must be set:
 - **Flex config Files** – Location of the User Environment Manager configuration share.
 - **Profile archives** – Location of the User Environment Manager user profile share.
 - **Run FlexEngine as a Group Policy Extension** – Setting that enables the FlexEngine agent. Alternatively, it can be called from a logon script.
 - **A logoff script** must be defined for User Environment Manager to save settings on logoff. The syntax of the logoff script is:

```
"C:\Program Files\VMware\Horizon Agents\User Environment
```

```
Manager\FlexEngine.exe" -s
```

Table: User Environment Manager Group Policy Settings	
Setting	Value
User Configuration\Policies\Administrative Templates\VMware UEM\FlexEngine	
Flex config files	Enabled (Enter User Environment Manager configuration share)
Profile archives	Enabled (Location of the User Environment Manager user profile share)
Run FlexEngine as Group Policy Extension	Enabled
User Configuration\Policies\Windows Settings\Scripts\	
Logoff	Script Name = C:\Program Files\VMware\Horizon Agents\User Environment Manager\FlexEngine.exe Script Parameters = -s

User Environment Manager Smart Policies

The following tables contain some simple sample Horizon Smart Policies. Adapt them to suit the use case and environment.

The following policies are defined in the User Environment Manager Management Console.

Table: Horizon Smart Policies – External	
Setting	Value
USB redirection	Disable
Printing	Disable
Clipboard	Disable
Client drive redirection	Disable
PCoIP profile	Not set
Conditions	Horizon Client property Client location is equal to External

Table: Horizon Smart Policies – Internal	
Setting	Value
USB redirection	Enable
Printing	Enable
Clipboard	Enable
Client drive redirection	Enable
PCoIP profile	Not set
Conditions	Horizon Client property Client location is equal to Internal

Table: Horizon Smart Policies – ZContractor

Setting	Value
USB redirection	Disable
Printing	Enable
Clipboard	Disable
Client drive redirection	Disable
PCoIP profile	Not set
Conditions	Horizon Client property Client location is equal to Internal <i>and</i> User is a member of an Active Directory group Contractor

You should also configure a triggered task to ensure that Smart Policies are reevaluated every time a user reconnects to a session so the user gets the appropriate policy applied.

Table: Triggered Task – Horizon Smart Policies

Setting	Value
Trigger	Reconnect Session
Action	Use Environment refresh
Refresh	Horizon Policies

Table: Folder Redirection – Horizon Smart Policies

Settings	
Remote path	User's Home drive share using the %username% variable Example: \\vmweuc.com\share\Users\%username%
Folders to redirect	Documents Note: Depending on your needs, you might also want to select Downloads, Music, Pictures, and Videos. Be aware that selecting these folders places a larger load on your file servers, requiring additional disk space and higher performance requirements.
Conditions	None



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