



App Orchestration 2.0

Deploying App Orchestration in a Complex Multi-Forest Environment

Prepared by: Christian Paez

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Introduction

App Orchestration enables you to rapidly deploy multiple XenDesktop environments without having to manually configure servers, Session Machines, Virtual Delivery Agents (VDAs), and connections. You can even create App Orchestration environments that will deploy XenDesktop in complex Microsoft Active Directory environments with multiple forests. Some of the steps are automated in App Orchestration, but there are additional settings that must be configured manually. This document provides a step-by-step guide to setting up and configuring App Orchestration in a multi-forest environment.

Overview

The following settings are required when deploying App Orchestration in a multi-forest environment. Many of the requirements are based on the XenDesktop multi-forest requirements. For a complete and up-to-date list of XenDesktop requirements for multi-forest deployments, see

<http://support.citrix.com/proddocs/topic/xendesktop-71/cds-plan-multiple-forest.html>.

- Active Directory
 - Configure two-way transitive or external transitive trust between the primary and secondary forests.
 - Delegate security in the secondary forest so that the administrator account can create machine accounts in that forest.
 - Create an organizational unit (OU) in the secondary forest that is identical in structure to that in the primary forest.
 - Add the orchestration service account or group to the local administrators group on the local VDA machine that will be added to the machine catalog.
- DNS
 - Configure DNS resolution between the primary and secondary forests.

- VDA

Caution: Editing the registry incorrectly can cause serious problems that may require you to reinstall your operating system. Citrix cannot guarantee that problems resulting from the incorrect use of Registry Editor can be solved. Use Registry Editor at your own risk. Be sure to back up the registry before you edit it.

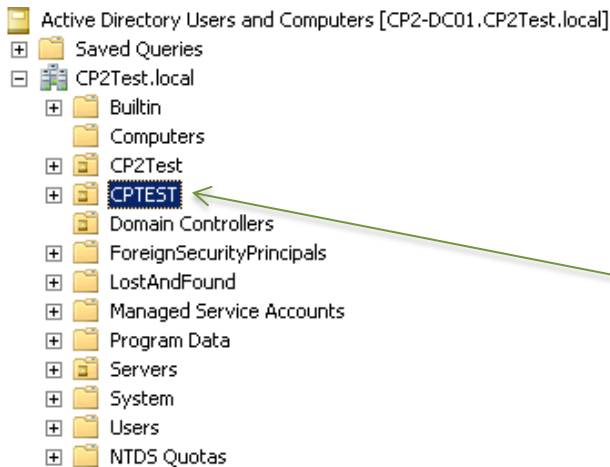
- On the VDA, create the registry key
HKEY_LOCAL_MACHINE\SOFTWARE\Citrix\VirtualDesktopAgent\SupportMultipleForest and set the value set to 1.
- If external trusts are in place, create the registry key
HKEY_LOCAL_MACHINE\SOFTWARE\Citrix\VirtualDesktopAgent\ListOfSIDs on the VDA and set the value to the security identifier (SID) of the Delivery Controllers.
Additionally, modify the brokeragentconfig.exe.config file on the VDA to allow Microsoft NT LAN Manager (NTLM) authentication.

Procedures

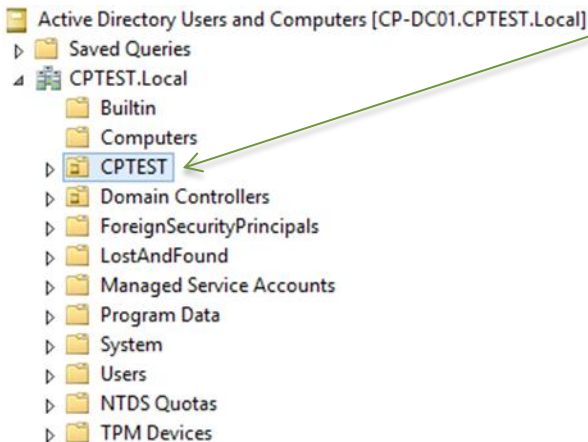
The following procedures guide you through the process of setting up the above configuration for your App Orchestration deployment.

To configure the App Orchestration environment

1. After setting up the App Orchestration configuration environment, configure either two-way transitive or external transitive trust between the primary and secondary forests. Delegate security in the secondary forest so that the App Orchestration administrator account can create machine accounts in that forest.
2. Ensure that DNS resolution is in place between the primary and secondary forests.
DNS forwarders, including conditional forwarders, can be used for name lookup and registration between the forests. When the appropriate DNS forwarders are in place between the forests, reverse DNS zones are not necessary.
3. In the secondary forest, add an OU that resembles the OU structure in the primary forest.



Make sure the OU is the same in both forests.



4. Add the orchestration service account or group to the local administrators group on the local VDA machine that you plan to add to the machine catalog.

- To configure the Citrix Product Depot to use fully qualified domain names (FQDNs), log on to the App Orchestration web management console and, on the home screen, click **Global > Settings**. On the **Global Settings** page, modify the path to reflect the FQDN of the server hosting the Citrix Product Depot.

Global Settings

Product depot settings

Network file share containing installation software for your deployment, used when installing software on remote machines

Depot location:

User name:

Account used to access the product depot from remote machines. Configure with read-only permissions to the product depot.

Password:

Fully qualified domain name for the Citrix Product Depot.

External DNS suffix

DNS suffix used to configure the NetScaler Gateway address.

External DNS suffix:

- On the home screen of the web management console, click **Define > Domains** and then click the **New Domain** button. Click **Create New Domain**, enter the required information, and then click **Save**.

New Domain

Domain name:

Once saved, this domain name can not be changed

Domain type:

Orchestration service user name:

Orchestration service account with full permissions

Orchestration service password:

Require password to use this domain

Product Installation Credential

Account used to install Citrix software on externally provisioned machines

Update product installation credentials

Product install user name:

Requires permissions to install software on remote machines in the domain


Product install password:

- To add Session Machines from the secondary forest, browse to your Session Machine catalog and click **Design > Session Machine Catalog**. Select your catalog and click **Add Machines**. Enter the required information, making sure to specify the FQDN for your Session Machines. Click **Next** and then click **Save**.

Basic Settings

Machine Name(s): +

Network:

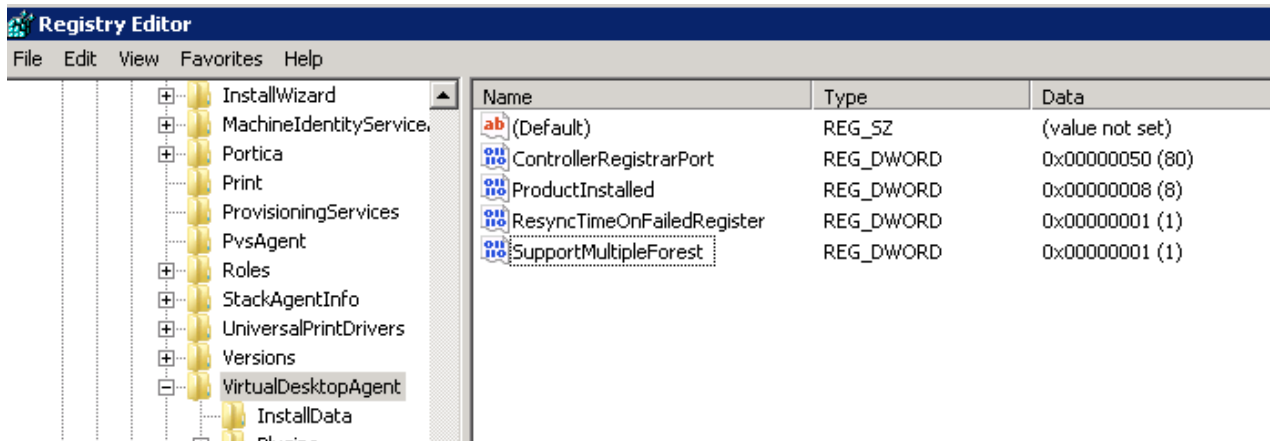
Domain: 

Datacenter: ▾

To configure the Virtual Delivery Agent

Caution: Editing the registry incorrectly can cause serious problems that may require you to reinstall your operating system. Citrix cannot guarantee that problems resulting from the incorrect use of Registry Editor can be solved. Use Registry Editor at your own risk. Be sure to back up the registry before you edit it.

- On the VDA, create a registry key with a value type of **REG_DWORD** at HKEY_LOCAL_MACHINE\SOFTWARE\Citrix\VirtualDesktopAgent\SupportMultipleForest. Set the value of the new key to 1 and restart the Citrix Desktop Service.



- If external trusts are in place during setup, if the Active Directory FQDN is different from the DNS FQDN, or if the domain containing the domain controller has a different NetBIOS name than the Active Directory FQDN, create another registry key on the VDA with a value type of **REG_SZ** at HKEY_LOCAL_MACHINE\SOFTWARE\Citrix\VirtualDesktopAgent\ListOfSIDs. Set the value of the new key to the SID of the Delivery Controllers.

You can obtain your domain SID using the Citrix XDPing tool, which can be downloaded from <http://support.citrix.com/article/CTX123278>.

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3. If external trusts are in place, use a text editor to open on the VDA the brokeragentconfig.exe.config file, which is typically located in the C:\Program Files\Citrix\Virtual Desktop Agent\ directory. Back up the file and then locate the following setting.

```
allowNtlm="false"
```

4. Change the value of the **allowNtlm** setting to **true**, then save and close the file. Restart the Citrix Desktop Service to apply your changes to both the registry and the brokeragentconfig.exe.config file.
5. Create some subscriptions and test the connectivity of your App Orchestration environment.