VIS Test Script

Thursday, 18 February 2016

10:39 AM

VIS Documentation and master config files mastered in VSTS here (including **VIS.InstallationAndAsBuilt.docx**):

https://unify-prfsvc.visualstudio.com/\_git/Solutions.CSODBB

***Note: Executions of the following script attached to the right for each round of testing performed.***

**Scenario: Loading CENet’s AD Driver for DBB.LOCAL from VIS in lieu of AD**

**Scenario Description**

* + This script is to validate the full working functionality of the CENet Novell AD Driver when connected to CSODBB’s DBB.LOCAL domain via Optimal IdM’s VIS (Virtual Identity Server). In particular, this will surface additional/auxiliary attributes not present in DBB.LOCAL, but present in a separate (secure) connected ADLDS instance.
  + The script covers the following scenarios:
  + Configuration
  + Establishing an LDAP connection/bind and returning the LDAP schema via the Novell Remote Loader
  + Performing a dirsync search (retrieving the latest change token from AD)
  + Performing an ad-hoc user query
  + BAU Operations
  + Remote loader detects changes in near-real-time and synchronises immediately to the AD driver
  + Remote loader detects password changes in near-real-time and synchronises immediately to the AD driver
  + AD driver full migration (initial load)
  + System Recovery
  + System recovery after restarts of the following servers:
  + AD DC
  + VIS
  + Novell Remote Loader
  + Novell AD Driver

**Version Control**

|  |  |  |  |
| --- | --- | --- | --- |
| **Version #** | **Date** | **Author** | **Description** |
| 0.1 | 02/11/2015 | Bob Bradley | Initial Draft |
| 0.2 | 05/11/2015 | Bob Bradley | extra test |

**Test Scripts**

The following scripts will cover the above scenarios:

1. Configuration

2. BAU Operations

3. System Recovery

**Use Case 1 - Configuration**

Novell engineer configures Novell components to connect to VIS in lieu of AD

**Use Case 2 - BAU Operations**

Novell components perform BAU activities as per agreed design

**Use Case 3 - System Recovery**

Novell components recover after component/dependency restart

**Test Components/Requirements**

This test scenario covers the following high-level test requirements (see scripts below for specific requirements covered by each test script):

* + VIS provides full AD connectivity to DBB.LOCAL domain during Novell configuration phase
  + Novell Remote Loader provides connectivity to DBB.LOCAL via VIS
  + Novell AD Driver connection experience with VIS is comparable to that when connected to AD directly (i.e. identical apart from additional auxiliary attributes)

**User Groups**

* + Novell Engineer (CENet)
  + VIS Engineer (CSODBB/UNIFY)

**Script 1: Configuration**

Test scripts (aka test procedures) list the specific steps a tester will take, along with the expected results

***Testing Requirements***

This test script covers the following specific testing requirements:

* + VIS provides full AD connectivity to DBB.LOCAL domain during Novell configuration phase

***Setup***

* + 2x AD domain controllers (DC001 and DC002) are fully operational
  + VIS is installed, pre-configured with auxiliary data, and fully operational (including Persistent Storage service)
  + Novell Password Synchronisation is installed with the Novell Remote Loader host as the target and password filters operational on both DCs
  + AD Driver is configured to connect to AD directly, but not configured for additional auxiliary attribute flows
  + Novell AD Driver is in a stopped state, and DirXML-StoredValues variable is deleted
  + Novell AD Driver is configured with Virtual Application ID (service account’s virtual AD credentials), virtual server root DN, virtual user Container, and virtual service port.
  + Novell Remote Loader is in a stopped state, logging level 4 and XML cookie file for the AD Driver has been deleted

***Teardown***

Auxiliary attribute import flows are removed.

***Script Steps***

|  |  |  |  |
| --- | --- | --- | --- |
| **Step #** | **Test Action** | **Expected Results** | **Pass/ Fail** |
| 1 | Start Remote Loader | Default INITIALIZE\_COOKIE xml file created |  |
| 2 | Start AD Driver | Driver authentication successful |  |
| 3 | DirSync search initiated (automatically after start) | Default cookie text replaced after a short delay with latest token from DBB.LOCAL domain |  |
| 4 | Monitor Remote Loader and Driver logs | DBB.LOCAL schema returned to Novell driver |  |
| 5 | Perform ad-hoc user query from the Novell AD driver | User search initiated against VIS and object returned with correct attribute values |  |
| 6 | Test refresh application schema (from IManager console) | Full schema returned (including sex and DOB) with no errors in RL logs |  |
| 7 | Stop AD Driver | DirXML-StoredValues variable is persisted with latest token shown in Remote Loader xml cookie |  |

***Test Execution***

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Date/Time** | **Tester** | **Test ID** | **Test Phase** | **Status** |
|  |  |  |  |  |

**Script 2: BAU Operations**

Test scripts (aka test procedures) list the specific steps a tester will take, along with the expected results

***Testing Requirements***

This test script covers the following specific testing requirements:

* + Novell Remote Loader provides connectivity to DBB.LOCAL via VIS

***Setup***

As per script #1, but with the following variations

* + AD Driver is configured to connect to AD directly, but also configured for additional auxiliary attribute flows (sex and DOB)
  + Novell AD Driver is in a stopped state, and DirXML-StoredValues variable is present
  + Novell Remote Loader is in a running state and XML cookie file for the AD Driver is present and matches AD driver DirXML-StoredValues variable

***Teardown***

TBD.

***Script Steps***

|  |  |  |  |
| --- | --- | --- | --- |
| **Step #** | **Test Action** | **Expected Results** | **Pass/ Fail** |
| 1 | Start AD Driver and monitor logs | Remote Loader enters polling state after a short re-initialisation delay |  |
| 2 | Perform a user attribute change in AD for a target user object | Changes logged in Remote Loader, and replicated to eDirectory via AD driver |  |
| 3 | Perform user attribute changes in ADLDS (sex and DOB) for a target user object | Changes logged in Remote Loader, and replicated to eDirectory via AD driver |  |
| 4 | Perform a password change in AD for a target user object | Changes logged in Remote Loader, and replicated to eDirectory via AD driver |  |
| 5 | Initialise full user migration | Root level user search initiated against VIS and object returned with correct attribute values for each user returned |  |
| 6 | Stop user migration after migration of a suitable sample | User search terminated |  |
| 7 | Perform ad-hoc user query from the Novell driver | User search initiated against VIS and object returned with correct attribute values, ***including DOB and sex*** |  |
| 8 | Stop AD Driver | DirXML-StoredValues variable is persisted with latest token shown in Remote Loader xml cookie |  |

***Test Execution***

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Date/Time** | **Tester** | **Test ID** | **Test Phase** | **Status** |
| 5/11/2015 | Bob/Glen | 2 |  | Fail (step #3) |
|  |  |  |  |  |

*Note: the schema being logged for "user" should be as follows (including DOB and SEX)*

<driver-filter>

<allow-class class-name="Organizational Role">

...

</allow-class>

<allow-class class-name="user">

<allow-attr attr-name="physicalDeliveryOfficeName"/>

<allow-attr attr-name="CN"/>

<allow-attr attr-name="description"/>

<allow-attr attr-name="extensionAttribute12"/>

<allow-attr attr-name="DOB"/>

<allow-attr attr-name="Full Name"/>

<allow-attr attr-name="sex"/>

<allow-attr attr-name="givenName"/>

<allow-attr attr-name="isGeneric"/>

<allow-attr attr-name="extensionAttribute11"/>

<allow-attr attr-name="sAMAccountName"/>

<allow-attr attr-name="dirxml-uACAccountDisable"/>

<allow-attr attr-name="employeeID"/>

<allow-attr attr-name="Physical Delivery Office Name"/>

<allow-attr attr-name="department"/>

<allow-attr attr-name="positionType"/>

<allow-attr attr-name="Postal Code"/>

<allow-attr attr-name="employeeNumber"/>

<allow-attr attr-name="sn"/>

<allow-attr attr-name="Title"/>

</allow-class>

</driver-filter>

**Script 3: System Recovery**

Test scripts (aka test procedures) list the specific steps a tester will take, along with the expected results

***Testing Requirements***

This test script covers the following specific testing requirements:

* + Novell AD Driver connection experience with VIS is comparable to that when connected to AD directly (i.e. identical apart from additional auxiliary attributes)

***Setup***

As per script #2

***Teardown***

TBD.

***Script Steps***

|  |  |  |  |
| --- | --- | --- | --- |
| **Step #** | **Test Action** | **Expected Results** | **Pass/ Fail** |
| 1 | Start AD Driver and monitor logs | Remote Loader enters polling state after a short re-initialisation delay |  |
| 2 | Shut down AD DC001 | Password Sync correctly detects state |  |
| 3 | Perform password reset on DC002 | Password change replicated to Novell |  |
| 4 | Restart AD DC001 | Password Sync correctly detects state |  |
| 5 | Perform password reset on DC001 | Password change replicated to Novell |  |
| 6 | Restart VIS  *\* Note - RL must first be stopped, XML cookie file deleted, and RL restarted to avoid a full search \** | Novell AD Driver and Remote Loader return to fully operational state |  |
| 7 | Perform user AD attribute changes | Changes logged in Remote Loader, and replicated to eDirectory via AD driver |  |
| 8 | Perform user ADLDS attribute changes | Changes logged in Remote Loader, and replicated to eDirectory via AD driver |  |
| 9 | Restart Novell Remote Loader | Remote Loader returns to fully operational state |  |
| 10 | Restart Novell AD Driver | AD Driver returns to fully operational state |  |
| 11 | Perform user AD attribute changes | Changes logged in Remote Loader, and replicated to eDirectory via AD driver |  |
| 12 | Stop AD Driver | DirXML-StoredValues variable is persisted with latest token shown in Remote Loader xml cookie |  |

***Test Execution***

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Date/Time** | **Tester** | **Test ID** | **Test Phase** | **Status** |
|  |  |  |  |  |