

TC Platform培训 – 高级应用技术(1) —FSC Cache Server - Activities

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Install a FSC cache server

❑ **Activity:** Install an FSC cache server

In this activity, a separate virtual machine tc10sit is used as a simulated remote site. You install a FSC cache server on tc10sit.

For this activity, log on to tc10sit, using operating system account r_fsc/r_fsc.

Launch the Install an FSC cache server

❑ **Related information**

For more information, review these topics in the online help:

- File Management System installation topic in the Installation on Windows Servers Guide.
- File Management System installation topic in the Installation on UNIX and Linux Servers Guide.

Install an FSC cache server (2)

❑ Install an FSC cache server

Step 1: Log onto **tc10sit** as **r_fsc/r_fsc**

Step 2: From directory **C:\disk\Tc10.1.4_patch_2_wntx64\wntx64**, run **tem.bat** as administrator.

Step 3: Click **Yes** in User Account Control window.

Step 4: In the **Installer Language** dialog box, select **English** and click **OK**.

Step 5: In the **Welcome to Teamcenter** dialog box, click **Install**.

Step 6: In the **Media Locations** dialog box, browse **C:\disk\Tc10.1.0_win64** for **Original Media Location**, then **Next**

Step 7: In the **Configuration** dialog box, enter **fsc_cache** in both the **Description** box and the **ID** box and then click **Next**.

Step 8: In the **Solutions** dialog box, make no selections and click **Next**.

Install an FSC cache server (3)

❑ Install an FSC cache server

Step 9: In the **Features** dialog box,

- (1). expand **Server Enhancements**, then expand **File Management**, to select **FMS Server Cache**.
- (2). In the **Installation Directory** box, enter **c:\siemens\r_fsc\teamcenter10_fsc_cache**
- (3). Click **Next**.

Step 10: In the **File System Cache Service (FSC)** dialog box

- (1). Enter **FSC_tc10sit_r_fsc_cache** in the **FSC_ID** box.
- (2). In the **Port** box, enter **4546**
- (3). Clear **Enable configuration master**
- (4). In the **FSC Parent URL** box, enter **http://tc10win:4544**.
- (5). Click **Advanced**.
 - (5.1). Click the **Cache** tab.
 - (5.2). In the **Read Cache Directory** and the **Write Cache Directory** box, enter **\$HOME\FSCCache_cache**
 - (5.3). Enter **512** for both **Max Size (MB)** boxes.
 - (5.3). Click **OK**.
- (6). Click **Next**

Install an FSC cache server (4)

❑ Install an FSC cache server

Step 11. In the **Operating System User** dialog box, enter **r_fsc** in both the **Password** and the **Confirm** boxes. Then click **Next**.

Step 12: In the **Confirmation** dialog box, click **Start**.

Step 13: When the installation is complete, click **Close**.

Step 14: Post Installation

(1). Choose **Start->All Programs**, right-click **Teamcenter 10**, and choose **Rename**.

(2). Change the name to **Teamcenter 10 Caching Server**.

(3). Verify that the menu commands now are **Start->All Programs->Teamcenter 10 Caching Server**.

Update the FMS Master

❑ **Activity:** Update the FMS Master

In this activity, you update the FMS Master using TEM.

For this activity, log on to **tc10win** using operating system accounts **administrator/administrator**, **infodba/infodba** and **oracle/oracle** to re-start the configuration FSC, the transient volume FSC for pool_manager, the volume server FSC respectively; log on to **tc10sit** using **r_fsc/r_fsc** operating system account to re-start the caching server FSC.

Launch the Update the FMS Master.

❑ **Related information**

For more information, review these topics in the online help:

- **File Management System installation** topic in the Installation on Windows Servers Guide.
- **File Management System installation topic** in the Installation on UNIX and Linux Servers Guide.

Update the FMS Master (2)

□ Update the FMS Master

Step 1: Log on to tc10win, using the **Administrator/administrator** operating system account.

Step 2: Start the FSC configuration server's TEM by choosing **Start->All Programs->Teamcenter 10 Configuration Server->Environment Manager**.

Step 3: In the **Maintenance** dialog box, select **Configuration Manager** and click **Next**.

Step 4: In the **Configuration Maintenance** dialog box, select **Perform maintenance on an existing configuration** and click **Next**.

Step 5: In the **Old Configuration** dialog box, select **My Teamcenter 10 Configuration FMS Master** and click **Next**.

Step 6: In the **Feature Maintenance** dialog box, select **Update FMS Master** and click **Next**.

Step 7: The **FSC Service** dialog box lists **An FSC is installed** and **FSC is configured as a master** confirming that the FSC master is running. Click **Next**.

Step 8: In the **FCC Defaults** dialog box, accept the defaults and click **Next**.

Update the FMS Master (3)

□ Update the FMS Master continued

Step 9: In the **FSC Groups** dialog box,

- (1). Click **Add**
 - (1.1). In the **Create/Edit FSC Dialog** box, enter **r_mygroup** in **Name** box.
 - (1.2). Click **OK**
- (2). Click **Next**

Step 10: In the **FSC Servers** dialog box,

- (1). click **Add**.
 - (1.1). In the **Create/Edit FSC Server** dialog box, set **FSC ID** to **FSC_tc10sit_r_fsc_cache**.
 - (1.2). Set **FSC Group** to **r_mygroup**.
 - (1.3). Set **Host** to **tc10sit**, which is the machine running the caching server.
 - (1.4). Set **Server Type** to **Non-Master FSC Server**.
 - (1.5). Leave **External Load Balancer** clear.
 - (1.6). Set **Protocol** to **http**.
 - (1.7). Set **Port** to **4546**.
 - (1.8). Click **OK**.
- (2). click **Next**.

Update the FMS Master (4)

□ Update the FMS Master

Step 11: In the **FSC Client Map** dialog box,

(1). Click **Add**

(1.1). In the **Create/Edit FSC Client Map** dialog box, select **FSC Group** box to **r_mygroup**.

(1.1). Select **IP Subnet/Mask** and in the box enter **192.168.80.30** (which is the IP address of tc10sit), enter **255.255.255.255** in the **Mask** box.

(1.2). Select **FSC_tc10sit_r_fsc_cache** in the **FSC ID** box

(1.3). Enter **0** in the **Priority** box.

(1.4). Select **Ian** in the **FSC Transport** box.

(1.5). Select **<default>** in the **FSC Connection** box.

(1.6). Click **OK**.

(2). Click **Next**

Update the FMS Master (5)

❑ Update the FMS Master

Step 12: In the **File Store Groups** dialog box, click **Next**.

Step 13: In the **Volume Query** dialog box, click **Next**.

Step 14: In the **Confirmation** dialog box, click **Start**.

Step 15: When the installation is complete, click **Close**.

Update the FMS Master (6)

❑ Update the FMS Master

Step 16: Update the master FMS configuration file.

(1). In Windows Explorer, navigate to the **C:\siemens\administrator\teamcenter10\fsc** folder, then open the **fmsmaster_FSC_tc10win_Administrator.xml** file in a text editor.

(3). In the file, note that there is an **fsc** tag that has **ID** set to **FSC_tc10sit_r_fsc_cache**:

```
<fsc id="FSC_tc10sit_r_fsc_cache" address="http://tc10sit:4546" ismaster="false" />
```

(4). Locate the following line:

```
</fccdefaults>
```

(5). Immediately before that line, add the following line:

```
<property name="FCC_EnableDirectFSCRouting" value="false" overridable="false" />
```

(6). Locate **r_mygroup**, then locate the following line afterward:

```
</clientmap>
```

(7). Immediately after that line, add the following line:

```
<exitfsc fscid="FSC_tc10sit_r_fsc_cache" priority="0" />
```

(6). Save and close the FMS Master file.

Update the FMS Master (7)

□ Update the FMS Master

Step 17: Re-start FSC services.

- (1). On **tc10win**, switch os user to **Administrator/administrator**, then start **Teamcenter FSC Service FSC_tc10win_Administrator**
 - (1.1). Open the **Services** window.
 - (1.2). From the **Services**, restart the **Teamcenter FSC Service FSC_tc10win_Administrator** service
 - (1.3). Wait 60 seconds and refresh the **Services** window by choosing **Action->Refresh**. Then verify that **Teamcenter FSC Service FSC_tc10win_Administrator** is still running.

- (2). On **tc10win**, switch os user to **infodba/infodba**, then re-start **Teamcenter FSC Service FSC_tc10win_infodba**
Same steps as above.

- (3). On **tc10win**, switch os user to **as oracle/oracle**, then re-start **Teamcenter FSC Service FSC_tc10win_oracle**
Same steps as above.

- (4). On **tc10sit**, switch os user to **r_fsc/r_fsc**, then re-start **Teamcenter FSC Service FSC_tc10sit_r_fsc_cache**
Same steps as above.

Create a test user

❑ **Activity:** Create a test user

In this activity, you create a Teamcenter user called **fsc_user**.

For this activity, log on to **tc10win** using OS accounts **infodba/infodba** and **jboss/jboss** to start Teamcenter Enterprise tier and Web tier respectively; log on to **tc10win** using **rac4/rac4** to run 4-tier rich client.

Launch the Create a test user.

❑ **Related information**

For more information, review these topics in the online help:

- **Create a user** topic in the Organization Guide.

Create a test user (1)

❑ Create a test user

Step 1: Start Teamcenter

(1). Start Enterprise Tier

(1.1). Log on to **tc10win** as **infodba/infodba** operating system account.

(1.2). From the **desktop**, open **Ent-Tier** folder and then run **2-start pool manager**.

(2). Start Web Tier

(2.1) On **tc10win**, switch os user to **jboss/jboss**.

(2.2). From the **desktop**, open **Web-Tier** folder and run **1 - start_jboss (as Administrator)** as administrator.

(3). Start 4-tier rich client

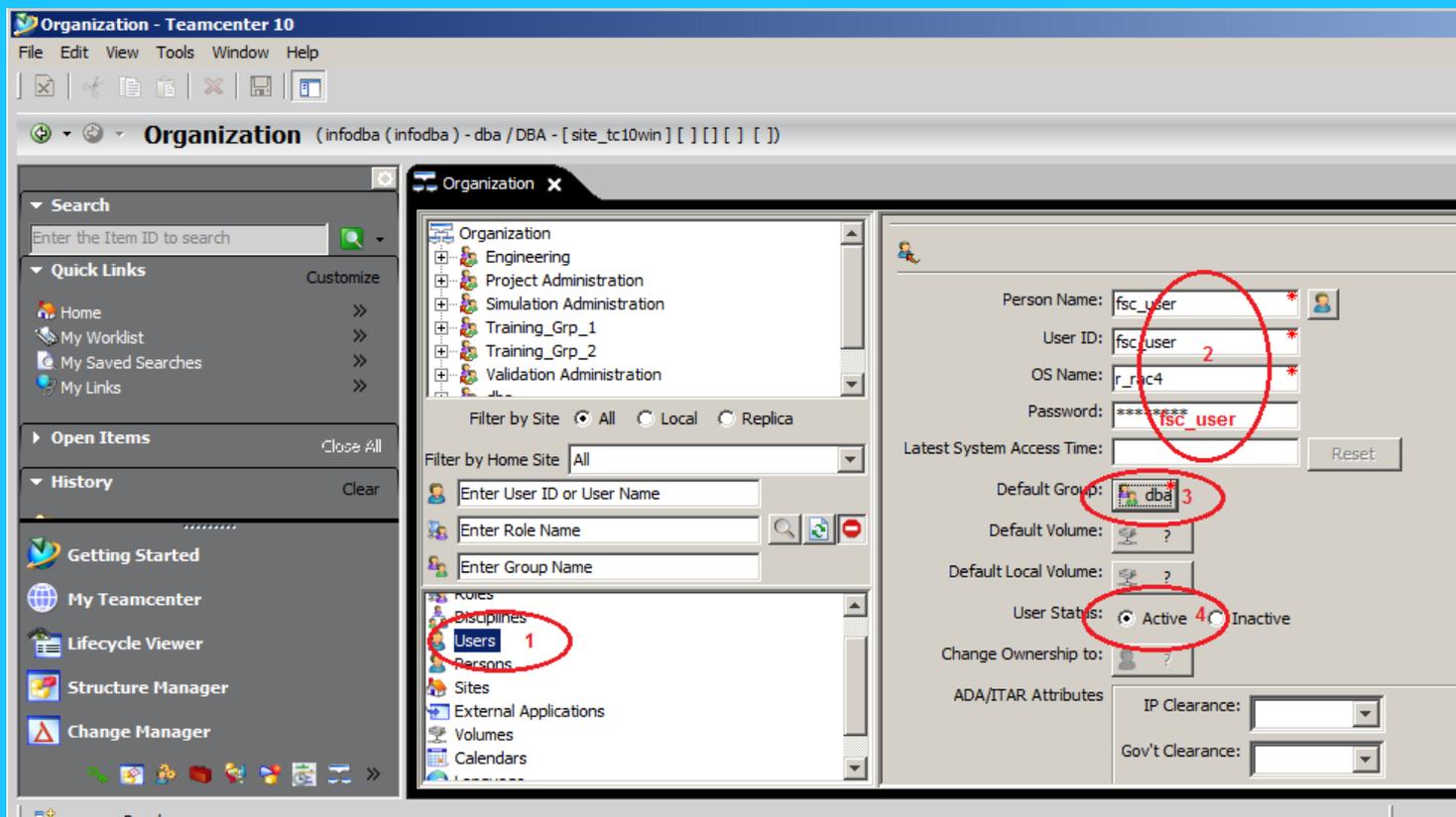
(3.1). On **tc10win**, switch os user to **rac4/rac4**.

(3.2). From the **desktop**, open folder **Client-Tier (4-tier)** and run **Teamcenter 10** (as **infodba/infodba**).

Create a test user (2)

Create a test user

Step 2: In rich client, open **Organization** application to create a test user called **fsc_user**.



Test the FSC cache server

❑ **Activity:** Test the FSC cache server

In this activity, you test FSC cache server.

For this activity, log on to **tc10win** using OS accounts **infodba/infodba** and **jboss/jboss** to start Teamcenter Enterprise tier and Web tier respectively; log on to **tc10sit** using **r_rac4/r_rac4** to run 4-tier rich client and test FCC cache server; log on to **tc10sit** as **r_fsc/r_fsc** to test FSC cache server.

Launch the Test the FSC cache server.

❑ **Related information**

For more information, review these topics in the online help:

- **fccstat** topic in the Utilities Reference
- **fscadmin** topic in the Utilities Reference

Test the FSC cache server (2)

❑ Test the FSC cache server

Step 1: Start Teamcenter

(1). Start Enterprise Tier

(1.1). Log on to **tc10win** as **infodba/infodba** operating system account.

(1.2). From the **desktop**, open **Ent-Tier** folder and then run **2-start pool manager**.

(2). Start Web Tier

(2.1) On **tc10win**, switch os user to **jboss/jboss**.

(2.2). From the desktop, open **Web-Tier** folder and run **1 - start_jboss (as Administrator)** as administrator.

(3). Start 4-tier rich client

(3.1). Log on to **tc10sit** as **r_rac4/r_rac4** operating system account.

(3.2). From the **desktop**, open the folder **r-Client-Tier** and run **Teamcenter 10** as **fsc_user/fsc_user**.

Test the FSC cache server (3)

❑ Test the FSC cache server

Step 2: Clear the cache on the client

- (1). On **tc10sit**, switch os user to **r_rac4/r_rac4**.
- (2). From the **desktop**, open an **DOS** window.
- (3). Change directory to **%FMS_HOME%\bin**.
- (4). In the **DOS** window, type **fcstat -clear**
- (5). In the **DOS** window, type **fcstat -status**

Note that the FCC read cache and write cache are now clear of any files.

Test the FSC cache server (4)

❑ Test the FSC cache server

Step 3: Clear the cache on the FSC cache server

- (1). On **tc10sit**, switch os user to **r_fsc/r_fsc**
- (2). From the desktop, open a **DOS** window.
- (3). In the **DOS** window, type:

```
set FMS_HOME=C:\siemens\r_fsc\teamcenter10_fsc_cache\fsc
```

- (4). In the **DOS** window, change the directory to **%FMS_HOME%**
- (5). In the **DOS** window, clear the cache by typing:

```
fscadmin -s http://tc10sit:4546 -k C:\siemens\administrator\teamcenter10\fsc\tcgs_fms.key ./purgecache
```

- (6). In the **DOS** window, obtain a summary of the FSC cache server by typing:

```
fscadmin -s http://tc10sit:4546 -k C:\siemens\administrator\teamcenter10\fsc\tcgs_fms.key ./cachesummary
```

Note that the FSC read cache and write cache are now clear of any files as well.

Test the FSC cache server (5)

❑ Test the FSC cache server

Step 4: Create **cntc004_folder** folder

- (1). On **tc10sit**, switch os user to **r_rac4/r_rac4**
- (3). From the rich client, open the **My Teamcenter** application.
- (4). Select the **Home** folder,
- (5). Choose **File->New->Folder**.
- (6). In the **New Folder** dialog box, select **Folder** and click **Next**.
- (7). In the **Name** box, enter **cntc004_folder**
- (10). Click **Finish**. Once the folder has been created, click **Cancel**

Test the FSC cache server (6)

❑ Test the FSC cache server

Step 5: Create item **cntc004_fsc_test_1**

- (1). On **tc10sit**, switch os user to **r_rac4/r_rac4**
- (2). From the rich client, open the **My Teamcenter** application.
- (3). Select the **Home** folder,
- (4). In **Home** folder, select **cntc004_folder**
- (5). Choose **File->New->Item**.
- (6). In the **New Item** dialog box, select **Item** and click **Next**.
- (7). To the right of **ID**, click **Assign**.
- (8). To the right of **Revision**, click **Assign**.
- (9). In the **Name** box, enter **cntc004_fsc_test_1**
- (10). Click **Finish**. Once the item has been created, click **Cancel**

Test the FSC cache server (7)

❏ Test the FSC cache server

Step 6: Attach a dataset

- (1). In the **Home->cntc004_folder** list, expand **cntc004_fsc_test_1**, select the item revision and choose **File->New->Dataset**.
- (2). In the **New Dataset** dialog box, select **Text** and click **OK**. **A empty file is checked out causing the FSC Read Cache populated.**
- (3). Expand the item revision for **cntc004_fsc_test_1** and double-click the text dataset. **A new file is checked in causing the FSC Write Cache populated.**

This opens the dataset in a text editor.

- (4). Add some text, save, and close the file. **Do not re-open the dataset again for testing purpose.**

Test the FSC cache server (8)

❑ Test the FSC cache server

Step 7: Check the client cache.

- (1). On **tc10sit**, switch os user to **r_rac4/r_rac4**.
- (2). From the desktop, open an **DOS** window.
- (3). Change directory to **%FMS_HOME%\bin**
- (5). In the **DOS** window, type **fcstat -status**

At least one file is listed in the read cache and at least one in the write cache.

Test the FSC cache server (9)

❑ Test the FSC cache server

Step 8: Check the cache on cache server

- (1). On **tc10sit**, switch os user to **r_fsc/r_fsc**
- (2). From the desktop, open an **DOS** window.
- (3). In the **DOS** window, type:

```
set FMS_HOME=C:\siemens\r_fsc\teamcenter10_fsc_cache\fsc
```

- (4). In the **DOS** window, change the directory to **%FMS_HOME%**,
- (6). In the **DOS** window, obtain a summary of the FSC cache server by typing:

```
fscadmin -s http://tc10sit:4546 -k C:\siemens\administrator\teamcenter10\fsc\tcgs_fms.key ./cachesummary
```

Note that there is at least one file listed in the Read Map and at least one file listed in the Write Map.

Pre-populate the cache

❑ **Activity:** Pre-populate the cache

In this activity, you pre-populate the cache on the FSC cache server.

For this activity, log on to **tc10win** using OS account **infodba/infodba** to start Teamcenter enterprise tier and run pre-populate utilities; log on to tc10win as **jboss/jboss** to start Web tier; log on to **tc10win** as **rac4/rac4** to create the data for testing; log on to **r_fsc/r_fsc** to check the cache pre-population.

Launch the Pre-populate the cache.

❑ **Related information**

For more information, review these topics in the online help:

- **fscadmin** topic in the Utilities Reference
- **plmxml_export** topic in the Utilities Reference
- **load_fscache** topic in the Utilities Reference

Pre-populate the cache (2)

❑ Pre-populate the cache

Step 1: Start Teamcenter

(1). Start Enterprise Tier

(1.1). Log on to **tc10win** as **infodba/infodba** operating system account.

(1.2). From the desktop, open **Ent-Tier** folder and then run **2-start pool manager**.

(2). Start Web Tier

(2.1) On **tc10win**, switch os user to **jboss/jboss**.

(2.2). From the desktop, open **Web-Tier** folder and run **1 - start_jboss (as Administrator)** as administrator.

Pre-populate the cache (3)

❑ Pre-populate the cache

Step 2: Create item **cntc004_fsc_test_10**

- (1). On **tc10win**, switch os user to **rac4/rac4**
- (3). From the desktop, open **Client-Tier** folder and run **Teamcenter 10** as **fsc_user/fsc_user**.
- (4). In **My Teamcenter** application, select the **Home** folder,
- (5). In **Home** folder, select **cntc004_folder**
- (6). Choose **File->New->Item**.
- (7). In the **New Item** dialog box, select **Item** and click **Next**.
- (8). To the right of **ID**, click **Assign**.
- (9). To the right of **Revision**, click **Assign**.
- (10). In the **Name** box, enter **cntc004_fsc_test_10**
- (11). Click **Finish**. Once the item has been created, click **Cancel**

Pre-populate the cache (4)

❑ Pre-populate the cache

Step 3: Attach a dataset

- (1). In the **Home->cntc004_folder** list, expand **cntc004_fsc_test_10**, select the item revision, and choose **File->New->Dataset**.
- (2). In the **New Dataset** dialog box, click **More** to load the dataset type **Text** (if necessary), select **Text** and click **OK**.
- (3). In the **New Dataset** dialog box, import the file **cntc004_fsc_prepopulation_file.txt** from the directory **C:\activities\cntc004\fsc_cache**
- (4). In the **New Dataset** dialog box, click **OK**.
- (5). Record the **ID** value of the **cntc004_fsc_test_10** item, for example **000022**. **It may be different in your environment.**

Pre-populate the cache (6)

❑ Pre-populate the cache

Step 4: Create a **temp** folder.

- (1). On **tc10win**, switch os user to **infodba/infodba**
- (2). Open a Windows explorer, and create a folder called **temp** under **C:\activities\cntc004**

The **temp** folder stores temporary files created for session cntc004.

Pre-populate the cache (7)

❑ Pre-populate the cache

Step 5: Use the **plmxml_export** utility to export a file containing information about the datasets referenced by the **cntc004_fsc_test_10** item revision. Use the following options:

- Use the **-item** argument to specify the item, it's the the **ID** of item **cntc004_fsc_test_10**.
- Use **justDatasetsOut** for the **-transfermode** argument. At your site, you can use your own transfermode.
- Use **Latest Working** for the **-rev_rule** argument. At your site, you can use your own revision rule here.

(1). On **tc10win**, switch os user to **infodba/infodba**

(2). Open a **DOS** window by running **Start->All Programs->Teamcenter 10 Corporate Server->tc_tc10svrw Command Prompt**

(3). In the **DOS** window, change directory to **C:\activities\cntc004\temp**

(4). Run the utility **plmxml_export** to export the file for cache,

```
plmxml_export -u=infodba -p=infodba -g=dba -item=000022 -rev=A -rev_rule="Latest Working" -  
export_bom=yes -transfermode=justDatasetsOut -  
xml_file=C:\activities\cntc004\temp\export_cntc004_fsc_test_10.xml
```

000022 is the ID of item **cntc004_fsc_test_10**. **In your environment it may be different.**

Pre-populate the cache (5)

❑ Pre-populate the cache

Step 6: Clear the cache on the FSC cache server and verify the cache is empty.

(1). On **tc10sit**, switch os user to **r_fsc/r_fsc**

(2). From the desktop, open a **DOS** window.

(3). In the **DOS** window, type:

```
set FMS_HOME=C:\siemens\r_fsc\teamcenter10_fsc_cache\fsc
```

(4). In the **DOS** window, change the directory to **%FMS_HOME%**

(5). In the **DOS** window, clear the cache by typing:

```
fscadmin -s http://tc10sit:4546 -k C:\siemens\administrator\teamcenter10\fsc\tcgs_fms.key ./purgecache
```

(6). In the **DOS** window, obtain a summary of the FSC cache server by typing:

```
fscadmin -s http://tc10sit:4546 -k C:\siemens\administrator\teamcenter10\fsc\tcgs_fms.key ./cachesummary
```

There are no files in the ReadMap.

Pre-populate the cache (8)

Pre-populate the cache

Step 7: Populate with references

(1). Population

(1.1). On **tc10win**, switch os user to **infodba/infodba**

(1.2). Open a **DOS** window by running **Start->All Programs->Teamcenter 10 Corporate Server->tc_tc10svrw Command Prompt**

(1.3). In the **DOS** window, change directory to **C:\activities\cntc004\temp**

(1.4). Run the utility **load_fscache** to populate the cache,

```
load_fscache -u=infodba -p=infodba -g=dba -f=load -  
plmxml=C:\activities\cntc004\temp\export_cntc004_fsc_test_10.xml -fsctargets=FSC_tc10sit_r_fsc_cache
```

(2). Verification

(2.1). On **tc10sit**, switch os user to **r_fsc/r_fsc**

(2.2). From the desktop, open a **DOS** window.

(2.3). In the **DOS** window, type:

```
set FMS_HOME=C:\siemens\r_fsc\teamcenter10_fsc_cache\fsc
```

(2.4). In the **DOS** window, change the directory to **%FMS_HOME%**

(2.5). In the **DOS** window, obtain a summary of the FSC cache server by typing:

```
fscadmin -s http://tc10sit:4546 -k C:\siemens\administrator\teamcenter10\fsc\tcgs_fms.key ./cachesummary
```

There is at least one file in the ReadMap.

Pre-populate the cache (9)

❑ Pre-populate the cache

Step 8: Clear the cache on the FSC cache server and verify the cache is empty.

(1). On **tc10sit**, switch os user to **r_fsc/r_fsc**

(2). From the desktop, open a **DOS** window.

(3). In the **DOS** window, type:

```
set FMS_HOME=C:\siemens\r_fsc\teamcenter10_fsc_cache\fsc
```

(4). In the **DOS** window, change the directory to **%FMS_HOME%**

(5). In the **DOS** window, clear the cache by typing:

```
fscadmin -s http://tc10sit:4546 -k C:\siemens\administrator\teamcenter10\fsc\tcgs_fms.key ./purgecache
```

(6). In the **DOS** window, obtain a summary of the FSC cache server by typing:

```
fscadmin -s http://tc10sit:4546 -k C:\siemens\administrator\teamcenter10\fsc\tcgs_fms.key ./cachesummary
```

There are no files in the ReadMap.

Pre-populate the cache (10)

Pre-populate the cache

Step 9: Populate with ticket files

(1). Population

(1.1). On **tc10win**, switch os user to **infodba/infodba**

(1.2). Open a **DOS** window by running **Start->All Programs->Teamcenter 10 Corporate Server->tc_tc10svrw Command Prompt**

(1.3). In the **DOS** window, change directory to **C:\activities\cntc004\temp**, and generate the ticket by:
**load_fscache -u=infodba -p=infodba -g=dba -f=list -
plmxml=C:\activities\cntc004\temp\export_cntc004_fsc_test_10.xml -
output_file=C:\activities\cntc004\temp\export_cntc004_fsc_test_10_tickets.xml**

(1.4). In the **DOS** window, populate the cache by:

**load_fscache -u=infodba -p=infodba -g=dba -fsctargets=FSC_tc10sit_r_fsc_cache -f=load -
input_file=C:\activities\cntc004\temp\export_cntc004_fsc_test_10_tickets.xml**

(2). Verification

(2.1). On **tc10sit**, switch os user to **r_fsc/r_fsc**

(2.2). From the desktop, open a **DOS** window, and then:

set FMS_HOME=C:\siemens\r_fsc\teamcenter10_fsc_cache\fsc

(2.4). In the **DOS** window, change the directory to **%FMS_HOME%**

(2.5). In the **DOS** window, obtain a summary of the FSC cache server by typing:

fscadmin -s http://tc10sit:4546 -k C:\siemens\administrator\teamcenter10\fsc\tcgs_fms.key ./cachesummary

There is at least one file in the ReadMap.

Thank you!

Learn and grow with our customers every day!