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Product Implementation Training (PIT)

IBM FileNet Composite Platform Installation Tool v5.2.1

Install & Prerequisites



Introduction

Course Overview:

- Covers the installation prerequisites and new features in CPIT 5.2.1

Target Audience:

- Primarily Support (L2) and Lab Services
- Personnel working with IBM FileNet Content Manager customers such as Sales System Engineers, Specialists and SMEs, Consulting Specialists, Field Technical Consultants and Technical Support
- Anyone who wants a complete IBM Content Management system on a single server for development, testing or POC

Prerequisites:

- Familiarity with the installation, configuration, and functionality of the P8 Platform
- High level knowledge of IBM FileNet P8 Platform
- Knowledge of FileNet P8 engines (ICN, CPE, etc.) is a plus

Version Release Date: October, 2014

Course Objectives

After this course you will be able to:

- Identify the prerequisites for CPIT 5.2.1
- Install and configure a complete Content Manager system using the IBM FileNet Composite Platform Installation Tool (CPIT)
- Troubleshoot installation problems
- Access IBM FileNet Content Manager reference and help materials

Course Roadmap

➔ **CPIT Overview**

- CPIT Prerequisites
- CPIT Review
- CPIT New Features
- CPIT Best Practices
- CPIT Important Note
- Troubleshoot section / Use cases
- Reference Materials

CPIT Overview

There are two variants of IBM CPIT 5.2.1 installers:

- IBM FileNet Composite Platform Installation Tool V5.2.1 (P8)
- IBM FileNet Composite Platform Installation Tool V5.2.1 (ICF)

Difference between the two installer variants:

- License terms.
- Different Product IDs.
- ICF CPIT 5.2.1 does not install IBM Workplace XT as part of the single server installation whereas P8 CPIT does.

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CPIT Prerequisites - AIX

- Installation must be performed by the root user (Tivoli Directory Server requirement)
- The system must be a clean system (i.e. without TDS, DB2, WAS, P8 pre-installed)
- Hardcoded device (must have /opt device)
- /opt must have minimum of 30 GB of free disk space
- /tmp and /home must have minimum 3GB of free disk space each
- Minimum RAM = 6GB
- Utility gunzip must be installed and in the machine path
- Utility unzip must be installed (unzip package can be downloaded at:
<http://www-03.ibm.com/systems/power/software/aix/linux/toolbox/ezinstall.html>)
- The required packages should be staged on the locally mounted file system.

CPIT Prerequisites - Linux

- Installation must be performed by the root user (Tivoli Directory Server requirement)
- The system must be a clean system (i.e. without TDS, DB2, WAS, P8 pre-installed)
- Hardcoded device (must have /opt device).
- /opt must have minimum of 30 GB of free disk space.
- Minimum RAM = 6GB
- Required 64-bit/32-bit packages that must be preinstalled on your Linux server
http://publib.boulder.ibm.com/infocenter/wasinfo/v6r1/topic/com.ibm.websphere.express.doc/info/exp/ae/tins_linuxsetup_rhel5.html
 - compat-libstdc++-33-3.2.3-61
 - compat-db-4.2.52-5.1
 - libXp-1.0.0-8
 - libXmu-1.0.2-5
 - libXtst-1.0.1-3.1
 - pam-0.99.6.2-3.26.el5
 - libXft-2.1.10-1.1

CPIT Prerequisites - Linux

- unzip and gunzip utilities must be installed.
- If SELinux is set to Enforce, you will not be able to execute the installer.
 - You can only execute the installer if the SELinux is set to permissive or disabled.
 - You can temporarily change the SELinux to permissive by executing this command

echo 0 >/selinux/enforce

- The required packages should be staged on the locally mounted file system.

CPIT Prerequisites - Windows

- Must log on as the **local** administrator.
- Disable “User Account Control (UAC)” before running CPIT. Once CPIT is completed successfully, you may re-enable UAC

http://technet.microsoft.com/en-us/library/cc709691%28WS.10%29.aspx#BKMK_S3

- The system must be a clean system (i.e. without TDS, DB2, WAS, P8 pre-installed).
- C:\ must have a minimum of 30 GB of free disk space.
- Minimum RAM = 6GB
- Web Services Enhancements 3.0 for Microsoft .NET redistributable runtime must be pre-installed.

<http://www.microsoft.com/downloads/details.aspx?FamilyID=9e59c3fb-e7bc-4d91-908e-411a8d329f3d&displaylang=en>

- The required packages must be staged on the local disk.

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CPIT Review

- Installs and configures a complete FileNet Content Manager or IBM Content Foundation system on a single server.
- Runs on 64-bit AIX, RedHat Enterprise Linux, and Windows.
- Supports both interactive (GUI) and non-interactive (silent) install.
- Cannot be used to upgrade an existing CPIT installation – instead follow the upgrade instructions for a distributed system that are provided in the Knowledge Center.

CPIT Installation Flow - Review

- Log on as root (UNIX) or local administrator (Windows)
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- Download the required software packages to the local drive/volume.
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- Rename the packages following the instructions in the support download documents for performing a single-server installation.
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- Accept the licenses by editing CPIT.properties file to change the LICENSE_ACCEPTED_# parameter to TRUE.
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- Run the CPIT tool.
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- Verify the system. Refer to accounts.txt (in /opt/IBM/CPIT or C:\Program Files (x86)\IBM\CPIT) for additional information.

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CPIT New Features

- *Required Packages*
 - TDS 6.3
 - TDS 6.3 FP24
 - GSKIT 8.0.14.27 for TDS (Only for Linux)
 - Installation Manager 1.6.2
 - WAS 8.5.5
 - DB2 9.7 FP8
 - DB2 Restricted License
 - CPE 5.2.1
 - CPE Client 5.2.1
 - ICN 2.0.3
 - XT 1.1.5.2 IF001

CPIT New Features

- CPIT can be installed only on 64-bit environments. In case of 32 bit installation, installer will throw an error and exit.
- Creates two WAS profiles one for deploying CPE and second one for deploying ICN.
- Checks whether DB2, WAS & TDS servers are started or not before restarting any Configuration scripts for CPE and ICN.
- Creates a dummy system user to verify the password rules in the pre-install step.
- Password is set to never expires for P8Admin user on Windows.
- Separated the DB2 installation from TDS. Now, DB2 will get installed before TDS.
- Setting the DB2 port to 3737 in Linux environment.

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CPIT 5.2.1 – Best Practices

Prior to installation, back up the system

On Windows only:

- Turn off system/security auto updates to avoid downloads occurring during CPIT installation as they may cause CPIT to timeout.
- Set Maximum password Age (in Local Security Policy) to zero to prevent local accounts from being expired.
- Start->Administrative tools -> Local Security Policy -> Security Settings -> Account Policies -> Password Policy -> Maximum password Age

After installation, read accounts.txt and readme.txt

- The default locations are:
UNIX: /opt/IBM/cpit
Windows: C:\Program Files (x86)\IBM\cpit
- Use the pwdreset script to clear passwords from the installation logs and scripts.
- Refer to the readme.txt file for more information.
- Secure or delete the accounts.txt file.

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CPIT 5.2.1 – Important Note

- In the CPIT.properties file, do not update the PROCESSED_X status for the “pwdset” script. The value must be set to NO before running CPIT.

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CPIT 5.2.1 – Troubleshooting

- If errors occur during the installation, review the following installation logs in the *<installation_path>* directory for more information, and correct the error as appropriate:
 - cpit521_install_stdout.txt (CPIT's main log - found in UNIX: /tmp, Windows: %TEMP%)
 - cpit521_install_stderr.txt (found in UNIX: /tmp, Windows: %TEMP%)
 - cpit521_install_log.txt (found in /opt/IBM/cpit C:\Program Files (x86)\IBM\cpit)
- After installation, these logs can be found in *<installation_path>*
 - UNIX: /opt/IBM/CPIT,
 - Windows: C:\Program Files (x86)\IBM\CPIT
- "CHECK_DISK_SPACE" - Set it to "OFF" to bypass disk space checking (case sensitive)
Format: *<installer-name>* -DCHECK_DISK_SPACE=OFF [-f cpit_silent_install.txt]
Ex: ./5.2.1-CPIT-LINUX.BIN -DCHECK_DISK_SPACE=OFF

CPIT 5.2.1 – Troubleshooting Unix

■ **installTDS failed:**

- Check install logs at: /opt/IBM/cpit/install-scripts/log, /opt/ibm/ldap/V6.3/var, /var/idsldap/V6.3
- Correct the TDS installation error accordingly (may need to uninstall TDS/DB2), then configure CPIT to continue where it left off

■ **Out of disk space in /tmp:**

- Increase /tmp disk space if possible: Ex /usr/sbin/chfs -a size=3G /tmp
- Redirect /tmp directory to another available volume by execute the following commands,
- IATEMPDIR=/opt/IBM/cpit/decompressed
- export IATEMPDIR

■ **Unpack failed due to unzip not installed:**

- Download and Install unzip package (May download unzip package for AIX from <http://www-03.ibm.com/systems/power/software/aix/linux/toolbox/einstall.html>)
- Restart CPIT

CPIT 5.2.1 – Troubleshooting Windows

■ **createP8Domain failed due to WAS not restarted properly:**

- Restart WAS using Windows' Administrative Tools -> Services
- Execute CPIT's "createP8Domain" script

Ex*: /opt/IBM/cpit/install-scripts/createP8Domain.sh /opt/IBM/cpit/install-scripts
/opt/IBM/cpit/decompressed /opt/cpit-linux 32 /opt/IBM/cpit

■ **createP8Domain failed due to Windows WSE 3.0 run-time not yet installed:**

- Download and install Windows WSE 3.0 runtime and reboot the system
- Execute CPIT's "createP8Domain" script

Ex*: /opt/IBM/cpit/install-scripts/createP8Domain.sh /opt/IBM/cpit/install-scripts
/opt/IBM/cpit/decompressed /opt/cpit-linux 32 /opt/IBM/cpit

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- * For the actual command, see for the line starting with "cmd:" in the stdout log immediately after the line starting with "invokeScript:"

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Contacts

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Product Help/Documentation/Resources

IBM CPIT v5.2.1 Single Server Installation

http://www.ibm.com/support/knowledgecenter/SSNW2F_5.2.1/com.ibm.p8.inst