Centrify for Samba (ADBindProxy) 5.5.2 Release Notes

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1. About This Release

Centrify for Samba is a proxy agent package that seamlessly integrates the Centrify DirectControl Agent for *NIX in Centrify Infrastructure Services with open source Samba (referred to as stock Samba in this document), enabling the two products to share Active Directory user and group membership and to agree upon Unix identity attributes for Active Directory users. It is a proxy that passes identity management requests from Samba to Centrify DirectControl Agent for *NIX.

The documentation, Samba Integration Guide (centrify-adbindproxy-guide.pdf), is available online to guide customers through the setup and configuration of Centrify for Samba in both new and existing environments.

The latest copies of this release notes as well as the above-mentioned documentation are available online at http://docs.centrify.com.

Centrify software is protected by U.S. Patents 7,591,005; 8,024,360; 8,321,523; 9,015,103; 9,112,846; 9,197,670; 9,378,391 and 9,442,962. (Ref: CS-44575)

2. Package Contents

The Centrify for Samba bundle package contains the following resources:

- Centrify for Samba software package (e.g. CentrifyDC-adbindproxy-<version#>-<OS>.<architecture>.rpm, or similar platform specific package file)
- Centrify for Samba Release Notes (Centrify-Adbindproxy-Release-Notes.html – this release notes)

3. Supported Platforms

The Centrify for Samba bundle package is available on the following OS/platforms in this release:

- HPUX on Itanium
- HPUX on PA-RISC
- IBM AIX on PPC
- Oracle Solaris on SPARC
- Oracle Solaris on x86_64
- Ubuntu on x86_64
- Red Hat Enterprise Linux on PPC
- Red Hat Enterprise Linux on PPC64LE
- Red Hat Enterprise Linux on x86_64
- SUSE Linux Enterprise Server on x86_64

This Centrify for Samba release supports stock Samba version 4.0 to 4.8. You are strongly advised to apply the latest security patches from Samba first before deploying Centrify for Samba.

For the OS versions that a Centrify for Samba bundle package supports, please refer to the supported OS versions of the matching Centrify DirectControl Agent for *NIX package of the corresponding Centrify Infrastructure Services release. Similarly, Centrify for Samba also follows Centrify DirectControl Agent for *NIX's schedule for End-of-Support platforms and hence please refer to the announcements there.

4. Feature Changes

4.1. Feature Changes in Centrify for Samba 5.5.2

This release of Centrify for Samba works with Centrify Infrastructure Services 2017 and up.

As Centrify for Samba follows Centrify DirectControl Agent for *NIX schedule for End-of-Support platforms, the following platforms are removed from this release:

- Debian 7.x x86_64

Added options to allow adbindproxy.pl record or use a response file while running in non-interactive mode. This will simplify or better automate the set-up process especially on multiple machines. (Ref: SAMBA-1042)

Details as follows:
- The default output directory of adbindproxy.pl is changed from /var/centrifydc/samba to /var/centrify/samba, and the default output files for --export option are now /var/centrify/samba/passwd and /var/centrify/samba/group.

- Added 2 new options in adbindproxy.pl, --adjoinExtraOptions and --adleaveExtraOptions, to pass additional options to adjoin and adleave commands respectively.

- Added new options in adbindproxy.pl to automate the adbindproxy.pl script:

    - the --record option will save the user input to a response file,

    - the --nonInteractive option will use the response file as user input,

    - the --responseFile option is used to specify the response file. If not specified, the default is /var/centrify/samba/adbindproxy.pl.rsp.

4.2. Feature Changes in Centrify for Samba 5.5.0

This release of Centrify for Samba works with Centrify Infrastructure Services 2017 and up.

As Centrify for Samba follows Centrify DirectControl Agent for *NIX schedule for End-of-Support platforms, the following platforms are removed from this release:

- Oracle Solaris x86 32-bit
- SUSE Linux Enterprise Server 11 SP1 or below

The parameter "auth methods" in smb.conf is deprecated starting from Samba 4.7.0 and removed starting from 4.8.0. This parameter is hence not used starting this Centrify for Samba release if the Samba version is 4.7.0 or up. (Ref: SAMBA-1032)

This release is enhanced to support winbindd version 29 and 30 which are used in Samba 4.7 and 4.8. (Ref: SAMBA-1030)

This release is also available in YUM and APT repositories. (Ref: SAMBA-1028)

5. Bugs Fixed

5.1. Bug Fixed in Centrify for Samba 5.5.2

Enhanced the implementation of the command wbinfo to provide consistent results with adquery when getting zone enabled user or group information. The affected command options are listed here (Ref: SAMBA-1015, SAMBA-1033, SAMBA-1039):

- wbinfo --name-to-sid <user/group name>

- wbinfo --user-info <user name>

- wbinfo --group-info <group name>

- wbinfo --domain-users --domain <domain name>

- wbinfo --domain-groups --domain <domain name>

Note:

- By default, wbinfo --domain-users, and wbinfo --domain-groups, will list zone users/groups in the current domain. To list zone users/groups in all domains, query with the option "--domain *".

- By this change, specifying UPN, or canonical name, in those commands is not supported.

- You may need to re-run adbindproxy.pl manually after upgrade if the winbind separator is not one of the separators specified in the parameter adclient.ntlm.separators in centrifydc.conf.

5.2. Bug Fixed in Centrify for Samba 5.5.0

- When setting "valid users" using AD group, winbind/adbindd tried to process the AD group as user object and failed the lookup. This is fixed. (Ref: SAMBA-1034)

6.Getting Started

- Read the centrify-adbindproxy-guide.pdf that is included in this package.

- The following is a summary of the steps to install and configure Centrify for Samba. Please refer to the instructions in centrify-adbindproxy-guide.pdf for details.
    - Preparation
        - If there is no Samba installed, install stock Samba first. Many Linux OS already include Samba.
        - If you are doing a fresh Centrify for Samba installation in an environment with stock Samba running, back up smb.conf just in case.
        - If you are upgrading from an existing Centrify Samba environment:
            - Back up your smb.conf.
            - Uninstall Centrify Samba.
            - Install stock Samba and make sure it works in your environment (Note that you will need to replace or merge the smb.conf from stock Samba with your back-up copy. This is especially important if you have file path settings in the original smb.conf).
    - Install and configure Centrify for Samba
        - Install Centrify DirectControl Agent for *NIX if you have not already done it.
        - Install Centrify for Samba package.
        - If you are using Centrify DirectControl Agent for *NIX from Centrify Server Suite 2016 on a Redhat 7.x platform, you need to do these extra steps:
            - Open a command terminal and run the following commands:
              vi /etc/centrifydc/scripts/functions.cdc
                - Comment out the two lines containing LD_LIBRARY_PATH, e.g.
                    - # LD_LIBRARY_PATH=/usr/share/centrifydc/lib64:/user/share/centrifydc/kerberos/lib64:$LD_LIBRARY_PATH
                    - # export LD_LIBRARY_PATH
                - Save the file with the changes
            - Modify the symbolic link of adkeytab utility
                - cd /sbin
                - ls -l adkeytab
                - rm adkeytab
                - ln -s /usr/share/centrifydc/libexec/adkeytab /sbin/adkeytab
        - Join the machine to a zone using adjoin.
        - Run adbindproxy.pl to configure the proxy environment.
    - Additional steps
        - If you have customized any existing smb.conf settings, verify that the new smb.conf still have all the relevant settings.

- Restart stock Samba and Centrify for Samba by running either one of the following commands
    - /etc/init.d/centrifydc-samba restart
    - service centrifydc-samba restart
- You may want to ensure stock samba's sbin and bin paths have been set in PATH environment variables

7. Known Issues

The following sections describe common known issues or limitations associated with this Centrify for Samba release.

- Limitations with stock Samba

  In previous Centrify Samba, we modified the following in stock Samba for interoperability. Using stock Samba instead of Centrify Samba, you may see related issues.
    - Default Kerberos keytab location, KEYTAB_DEFAULT, from /etc/krb5.keytab to /etc/krb5/krb5.keytab on Solaris (SAMBA-890).
    - Default Kerberos cache location, CCNAME, from /tmp/krb5cc_%{uid} to /var/krb5/security/creds/krb5cc_%{uid}" on AIX (SAMBA-892).

- Limitations with RHEL 7.2 PPC (SAMBA-965)

  If you are using 64bit Samba on a RHEL 7.2 PPC machine, you may have problem with adclient failed to use the 64bit tdb library come with 64 bit Samba. The symptom can be shown in the error message while trying to access samba server - "session setup failed: NT_STATUS_CANT_ACCESS_DOMAIN_INFO".
  You need to install a 32bit tdb library, e.g. libtdb-1.3.6-2.el7.ppc.rpm in rhel-server-7.2-ppc64-dvd.iso, for adclient to work with, and you need to tell adclient where to get this library by adding a parameter "samba.libtdb.path: /usr/lib/libtdb.so.1" into centrifydc.conf, assuming the path to libtdb is /usr/lib/libtdb.so.1.

- Limitations with AIX7.1 (SAMBA-966)

  If you are using Centrify for Samba with stock Samba and Centrify Server Suite 2014 or 2013.3 on an AIX machine, it may not work well due to library problem. The symptom can be shown in the error message while trying to access samba server - "session setup failed: NT_STATUS_NO_LOGON_SERVERS".
  You may try the following changes on Samba tools, e.g. smbd, smbstatus and testparm, to get around it:
    - mv /usr/local/samba/sbin/smbd /usr/local/samba/sbin/smbd.x
    - vi /usr/local/samba/sbin/smbd
      #! /bin/sh
      unset _ LD_LIBRARY_PATH
      unset _ LD_PRELOAD

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            LIBPATH=/usr/local/samba/lib:/usr/local/samba/lib/private
            export LIBPATH
            exec /usr/local/samba/sbin/smbd.x "$@"
```

8. Additional Information and Support

In addition to the documentation provided for this package, you can
find the answers to common questions and information about any general
or platform-specific known limitations as well as tips and suggestions
from the Centrify Knowledge Base.

The Centrify Resources web site provides access to a wide range of
information including analyst report, best practice brief, case study,
datasheet, ebook, white papers, etc., that may help you optimize your
use of Centrify products. For more information, see the Centrify
Resources web site:

http://www.centrify.com/resources

You can also contact Centrify Support directly with your questions
through the Centrify Web site, by email, or by telephone. To contact
Centrify Support or to get help with installing or using this version
of Centrify for Samba, send email to support@centrify.com or call 1-
669-444-5200, option 2. For information about purchasing or evaluating
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