

January 17, 2012



powerbroker[®] identity services
Open Edition

Quick Start Guide for Linux

Release 6.5

beyondtrust[®]
privilege. made simple

www.beyondtrust.com

BeyondTrust
2173 Salk Avenue
Carlsbad, California 92008
Phone: +1 818-575-4000

Revision/Update Information: January 17, 2012

Software Version: PowerBroker Identity Services Enterprise Edition 6.5

Revision Number: 0

COPYRIGHT NOTICE

Copyright © 2012 BeyondTrust Software, Inc. All rights reserved. Use of this software and/or document, as and when applicable, is also subject to the terms and conditions of the license between the licensee and BeyondTrust Software, Inc. ("BeyondTrust") or BeyondTrust's authorized remarketer, if and when applicable.

TRADE SECRET NOTICE

This software and/or documentation, as and when applicable, and the information and know-how they contain constitute the proprietary, confidential and valuable trade secret information of BeyondTrust and/or of the respective manufacturer or author, and may not be disclosed to others without the prior written permission of BeyondTrust. This software and/or documentation, as and when applicable, have been provided pursuant to an agreement that contains prohibitions against and/or restrictions on copying, modification and use.

DISCLAIMER

BeyondTrust makes no representations or warranties with respect to the contents hereof. Other than, any limited warranties expressly provided pursuant to a license agreement, NO OTHER WARRANTY IS EXPRESSED AND NONE SHALL BE IMPLIED, INCLUDING WITHOUT LIMITATION THE WARRANTIES OF MERCHANTABILITY AND FITNESS FOR USE OR FOR A PARTICULAR PURPOSE.

LIMITED RIGHTS FARs NOTICE (If Applicable)

If provided pursuant to FARs, this software and/or documentation, as and when applicable, are submitted with limited rights. This software and/or documentation, as and when applicable, may be reproduced and used by the Government with the express limitation that it will not, without the permission of BeyondTrust, be used outside the Government for the following purposes: manufacture, duplication, distribution or disclosure. (FAR 52.227.14(g)(2)(Alternate II))

LIMITED RIGHTS DFARS NOTICE (If Applicable)

If provided pursuant to DFARS, use, duplication, or disclosure of this software and/or documentation by the Government is subject to limited rights and other restrictions, as set forth in the Rights in Technical Data – Noncommercial Items clause at DFARS 252.227-7013.

TRADEMARK NOTICES

PowerBroker, PowerPassword, and PowerKeeper are registered trademarks of BeyondTrust. PowerSeries, PowerADvantage, PowerBroker Password Safe, PowerBroker Directory Integrator, PowerBroker Management Console, PowerBroker Desktops, PowerBroker Virtualization, PowerBroker Express, PowerBroker Databases, PowerBroker Windows Servers, PowerBroker Windows Desktops, and PowerBroker Identity Services are trademarks of BeyondTrust.

ssh® is a registered trademark of SSH Communications Security Corp in the United States and in certain other jurisdictions. The SSH logo, Tectia and tectia logo are trademarks of SSH Communications Security Corp and may be registered in certain jurisdictions. This application contains software powered by PKAIP®, the leading solution for enabling efficient and secure data storage and transmission. PKAIP® is provided by PKWARE, the inventor and continuing innovator of the ZIP file format. Used with permission.

FICTITIOUS USE OF NAMES

All names of persons mentioned in this document are used fictitiously. Any resemblance to actual persons, living or dead is entirely coincidental.

OTHER NOTICES

If and when applicable the following additional provisions are so noted:

The PowerBroker Identity Services Open software is free to download and use according to the terms of the Limited GPL 2.1 for client libraries and the GPL 2 for daemons. The licenses for PowerBroker Identity Services Enterprise and for PowerBroker Identity Services UID-GID Module are different. For complete information on the software licenses and terms of use for BeyondTrust products, see www.beyondtrust.com.

Contents

PBIS Open Quick Start Guide for Linux	7
Install the Agent on Linux, Join a Domain, and Log On.....	7
Step 1: Download PBIS Open.....	7
Step 2: Install PBIS Open on Linux.....	7
Step 3: Join Active Directory.....	8
Step 4: Log On with AD Credentials.....	10
Set Common Options.....	10
Give Your Domain Account Admin Rights.....	11
Upgrade to the Latest Version.....	12

PBIS Open Quick Start Guide for Linux

PowerBroker Identity Services Open Edition is an agent-based tool that allows you connect Linux, Unix, and Mac OS X computers to Microsoft Active Directory for consistent security policy across your entire environment.

To get started with PBIS Open, you need to install the PBIS agent, join a domain, and log on using Active Directory credentials. You can do so on [Linux](#).

Depending on your environment, you may also need to [set common options](#) and [give your domain account admin rights](#).

If you already have a previous version of PBIS Open or Likewise Open installed, you should [upgrade to the latest version](#).

Install the Agent on Linux, Join a Domain, and Log On

This topic skips system requirements and information about pre-configuring clients to cut to the chase: Installing PowerBroker Identity Services Open Edition on a Linux computer, connecting it to an Active Directory domain, and logging on with your domain credentials.

Before you deploy PBIS Open in anything other than a test environment, you should read the overview of the agent, the chapter about installing the agent, the chapter about joining a domain, and the chapter about configuring the PBIS services.

Step 1: Download PBIS Open

Browse to www.beyondtrust.com and click **Free Software**. Under PowerBroker Identity Services Open Edition click **Download Free Trial**. Enter your information and submit the form.

In the email message that you receive in response to the form you submitted, click the link under the Download section to open a webpage where you can download installers for different operating systems. On the webpage, right-click the download link for your platform and then save the installer to the desktop of your Linux computer.

Step 2: Install PBIS Open on Linux

You install PBIS Open by using a shell script that contains a self-extracting executable—an SFX installer with a file name that ends in sh. Example:
`PBISOpen-6.5.0.3499-linux-i386-rpm.sh`.

1. As root, run the installer, substituting the file name of the installer that you have selected for the one shown below:

```
sh ./PBISOpen-6.5.0.3499-linux-i386-rpm.sh
```

Alternatively, you can run the installer as a regular user:

```
sudo sh ./PBISOpen-6.5.0.3499-linux-i386-rpm.sh
```
2. Follow the instructions in the installer.
Note: On SLES and other systems on which the pager is set to less, you must exit the end user license agreement, or EULA, by typing the following command: q

Step 3: Join Active Directory

After the wizard finishes installing PBIS Open, the user interface for joining a domain appears. If it does not appear, see the *PowerBroker Identity Services Open Installation and Administration Guide*.

To join a computer to a domain, you must use the root account and you must have the user name and password of an Active Directory account that has privileges to join computers to the domain.

1. In the **Domain** box, enter the fully qualified domain name (FQDN) of your Active Directory domain. Example: CORP.EXAMPLE.COM

PowerBroker IdentityServices AD Settings

Active Directory Membership

Name and Domain

Computer name:

Domain:

User names are usually prefixed with the name of the domain. You can allow bare user names by specifying a default prefix.

☒ Enable default user name prefix:

Organizational Unit

Please select the OU to which this computer should be joined. Nested OUs should be separated by a forward-slash.

☒ Default (Computers or previously-joined OU)

☐ Specific OU path:

▶ Advanced

2. To avoid typing the domain prefix before your user or group name each time you log on, select **Enable default user name prefix** and enter your domain prefix in the box. Example: CORP
3. Under **Organizational Unit**, you can optionally join the computer to an organizational unit (OU) by selecting **Specific OU Path** and then typing a path in the box. The OU path is from the top of the Active Directory domain down to the OU that you want. (See the *PowerBroker Identity Services Open Installation and Administration Guide* for more information.) Or, to join the computer to the Computers container, select **Default (Computers or previously joined OU)**.
4. Click **Join Domain**.
5. Enter the user name and password of an Active Directory account that has privileges to join computers to the domain and then click **OK**.

After you join a domain for the first time, you must restart the computer before you can log on.

To solve problems, see the *PowerBroker Identity Services Open Installation and Administration Guide*.

Step 4: Log On with AD Credentials

After you have joined your Linux computer to a domain and restart the computer, you can log on interactively or from the text login prompt with your Active Directory credentials in the following form: DOMAIN\username. If you set a default domain, just use your Active Directory username.

1. Log out of the current session.
2. Log on the system console by using the name of your Active Directory user account.

If you did not set a default domain, log on the system console by using an Active Directory user account in the form of DOMAIN\username, where DOMAIN is the Active Directory domain name. Example:

```
example.com\kathy
```

Important: When you log on from the command line, for example with ssh, you must use a slash to escape the slash character, making the logon form DOMAIN\\username.

To troubleshoot issues, see the *PowerBroker Identity Services Open Installation and Administration Guide*.

Set Common Options

This section shows you how to quickly modify two common PBIS settings—the default domain and the shell—by running the following config command-line tool as root:

/opt/pbis/bin/config

To view the settings you can change with config, execute the following command:

```
/opt/pbis/bin/config --list
```

The syntax to change the value of a setting is as follows, where setting is replaced by the PBIS option that you want to change and value by the new value that you want to set:

```
/opt/pbis/bin/config setting value
```

Here is an example of how to use config to change the AssumeDefaultDomain setting:

```
[root@rhel5d bin]# ./config --detail AssumeDefaultDomain
❶
Name: AssumeDefaultDomain
Description: Apply domain name prefix to account name at
```

```

logon
Type: boolean
Current Value: false
Accepted Values: true, false
Current Value is determined by local policy.

[root@rhel5d bin]# ./config AssumeDefaultDomain true ❷

[root@rhel5d bin]# ./config --show AssumeDefaultDomain ❸
boolean
true
local policy
    
```

- ❶ Use the `--detail` argument to view the setting's current value and to determine the values that it accepts.
- ❷ Set the value to `true`.
- ❸ Use the `--show` argument to confirm that the value was set to `true`.

Here is another example. To set the shell for a domain account, run `config` as root with the `LoginShellTemplate` setting followed by the path and shell that you want:

```

[root@rhel5d bin]# /opt/pbis/bin/config
LoginShellTemplate /bin/ksh
    
```

For more information, see the *PowerBroker Identity Services Open Installation and Administration Guide*.

Give Your Domain Account Admin Rights

You can give your Active Directory account local administrative rights to execute commands with superuser privileges and perform tasks as a superuser.

On Ubuntu, you can simply add your domain account to the `admin` group in the `/etc/group` file by entering a line like the following as root:

```
admin:x:115:EXAMPLE\kathy
```

On other Linux systems, you can add an entry for your Active Directory group to your sudoers file—typically, `/etc/sudoers`—by editing the file with the `visudo` command as root. Editing the sudoers file, however, is recommended only for advanced users, because an improperly configured sudoers file could lock out administrators, mess up the privileges of important accounts, or undermine the system's security.

Example entry of an AD user account:

```
% EXAMPLE\\domain^admins ALL=(ALL) ALL
```

Note: The example assumes that you are a member of the Active Directory domain administrators group.

For information about how to format your sudoers file, see your computer's man page for `sudo`.

Upgrade to the Latest Version

With PowerBroker Identity Services Open Edition 6 or later, you can seamlessly upgrade from version 5, preserving your local configuration and maintaining your Active Directory state. Simply install PBIS Open 6 or later while version 5.3 or earlier is running and the computer is joined to a domain. It is unnecessary to leave the domain and uninstall the old version before you install the latest version. After installation, you will still be connected to your domain.

PBIS Open 6 preserves the changes you made to your local PBIS configuration. When you upgrade, a utility in PBIS Open 6 converts the configuration files from versions 5.0, 5.1, 5.2, and 5.3 into registry files and loads the files into the registry. The registry files that capture the old configuration are stored in `/tmp/upgrade`; the original configuration files in `/etc/pbis` are removed.

Although the latest Ubuntu release makes the `pbis-open` package available through the `apt-get install` command, the PBIS Open 6 installer does not support upgrading from the package. Before you upgrade from the version available through Ubuntu, it is recommended that you leave the domain, uninstall the domain join GUI package (`pbis-open-gui`), and uninstall the `pbis-open` package.

Important: If you plan to upgrade from a 4.x or earlier version to PBIS Open 6.0 or later, first contact BeyondTrust Technical Support at pbis-support@beyondtrust.com. At this time, it is recommended that you do not attempt to upgrade to a 6.x version from a 4.x version without assistance from BeyondTrust Support.