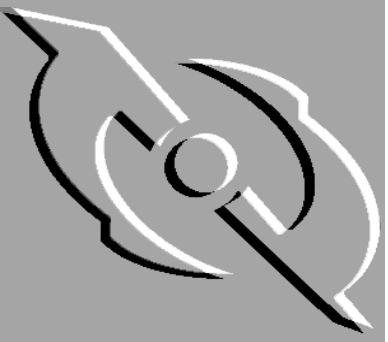

PGP Command Line Freeware

Installation Guide

PGP*, Version 6.5.2
PGP*, PGP Command Line 6.5.2

09-99. Printed in the United States of America.

Network Associates, Inc.
3965 Freedom Circle
Santa Clara, CA 95054

(408) 988-3832 main
(408) 970-9727 fax
http://www.nai.com
info@nai.com

***** is sometimes used instead of the **®** for registered trademarks to protect marks registered outside of the U.S.

LIMITED WARRANTY

Limited Warranty. Network Associates Inc. warrants that the Software Product will perform substantially in accordance with the accompanying written materials for a period of sixty (60) days from the date of original purchase. To the extent allowed by applicable law, implied warranties on the Software Product, if any, are limited to such sixty (60) day period. Some jurisdictions do not allow limitations on duration of an implied warranty, so the above limitation may not apply to you.

Customer Remedies. Network Associates Inc's and its suppliers' entire liability and your exclusive remedy shall be, at Network Associates Inc's option, either (a) return of the purchase price paid for the license, if any or (b) repair or replacement of the Software Product that does not meet Network Associates Inc's limited warranty and which is returned at your expense to Network Associates Inc. with a copy of your receipt. This limited warranty is void if failure of the Software Product has resulted from accident, abuse, or misapplication. Any repaired or replacement Software Product will be warranted for the remainder of the original warranty period or thirty (30) days, whichever is longer. Outside the United States, neither these remedies nor any product support services offered by Network Associates Inc. are available without proof of purchase from an authorized international source and may not be available from Network Associates Inc. to the extent they subject to restrictions under U.S. export control laws and regulations.

NO OTHER WARRANTIES. TO THE MAXIMUM EXTENT PERMITTED BY APPLICABLE LAW, AND EXCEPT FOR THE LIMITED WARRANTIES SET FORTH HEREIN, THE SOFTWARE AND DOCUMENTATION ARE PROVIDED "AS IS" AND NETWORK ASSOCIATES, INC. AND ITS SUPPLIERS DISCLAIM ALL OTHER WARRANTIES AND CONDITIONS, EITHER EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, CONFORMANCE WITH DESCRIPTION, TITLE AND NON-INFRINGEMENT OF THIRD PARTY RIGHTS, AND THE PROVISION OF OR FAILURE TO PROVIDE SUPPORT SERVICES. THIS LIMITED WARRANTY GIVES YOU SPECIFIC LEGAL RIGHTS. YOU MAY HAVE OTHERS, WHICH VARY FROM JURISDICTION TO JURISDICTION.

LIMITATION OF LIABILITY. TO THE MAXIMUM EXTENT PERMITTED BY APPLICABLE LAW, IN NO EVENT SHALL NETWORK ASSOCIATES, INC. OR ITS SUPPLIERS BE LIABLE FOR ANY INDIRECT, INCIDENTAL, CONSEQUENTIAL, SPECIAL OR EXEMPLARY DAMAGES OR LOST PROFITS WHATSOEVER (INCLUDING, WITHOUT LIMITATION, DAMAGES FOR LOSS OF BUSINESS PROFITS, BUSINESS INTERRUPTION, LOSS OF BUSINESS INFORMATION, OR ANY OTHER PECUNIARY LOSS) ARISING OUT OF THE USE OR INABILITY TO USE THE SOFTWARE PRODUCT OR THE FAILURE TO PROVIDE SUPPORT SERVICES, EVEN IF NETWORK ASSOCIATES, INC. HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES. IN ANY CASE, NETWORK ASSOCIATES, INC'S CUMULATIVE AND ENTIRE LIABILITY TO YOU OR ANY OTHER PARTY FOR ANY LOSS OR DAMAGES RESULTING FROM ANY CLAIMS, DEMANDS OR ACTIONS ARISING OUT OF OR RELATING TO THIS AGREEMENT SHALL NOT EXCEED THE PURCHASE PRICE PAID FOR THIS LICENSE. BECAUSE SOME JURISDICTIONS DO NOT ALLOW THE EXCLUSION OR LIMITATION OF LIABILITY, THE ABOVE LIMITATIONS MAY NOT APPLY TO YOU.

Table of Contents

Introduction 1

Welcome to PGP Command Line software! This Installation provides general information about PGP Command Line and describes the system requirements and installation instructions necessary to successfully run it.

How to contact Network Associates

Customer service

To order products or obtain product information, contact the Network Associates Customer Service department at (408) 988-3832 or write to the following address:

Network Associates, Inc.
McCandless Towers
3965 Freedom Circle
Santa Clara, CA 95054-1203
U.S.A.

Year 2000 compliance

Information regarding NAI products that are Year 2000 compliant and its Year 2000 standards and testing models may be obtained from NAI's Web site at http://www.nai.com/y2k.

For further information, email y2k@nai.com.

Network Associates training

For information about scheduling on-site training for any Network Associates product, call (800) 338-8754.

Comments and feedback

Network Associates appreciates your comments and feedback, but incurs no obligation to you for information you submit. Please address your comments about PGP product documentation to: Network Associates, Inc., 3965 Freedom Circle Santa Clara, CA 95054-1203 U.S.A.. You can also e-mail comments to tns_documentation@nai.com.

Recommended reading

Non-Technical and beginning technical books

- Whitfield Diffie and Susan Eva Landau, “Privacy on the Line,” *MIT Press*; ISBN: 0262041677
  This book is a discussion of the history and policy surrounding cryptography and communications security. It is an excellent read, even for beginners and non-technical people, but with information that even a lot of experts don't know.

- David Kahn, “The Codebreakers” *Scribner*; ISBN: 0684831309
  This book is a history of codes and code breakers from the time of the Egyptians to the end of WWII. Kahn first wrote it in the sixties, and there is a revised edition published in 1996. This book won't teach you anything about how cryptography is done, but it has been the inspiration of the whole modern generation of cryptographers.

- Charlie Kaufman, Radia Perlman, and Mike Spencer, “Network Security: Private Communication in a Public World,” *Prentice Hall;* ISBN: 0-13-061466-1
  This is a good description of network security systems and protocols, including descriptions of what works, what doesn't work, and why. Published in 1995, so it doesn't have many of the latest advances, but is still a good book. It also contains one of the most clear descriptions of how DES works of any book written.

Intermediate books

- Bruce Schneier, “Applied Cryptography: Protocols, Algorithms, and Source Code in C,” *John Wiley & Sons*; ISBN: 0-471-12845-7
  This is a good beginning technical book on how a lot of cryptography works. If you want to become an expert, this is the place to start.

- Alfred J. Menezes, Paul C. van Oorschot, and Scott Vanstone, “Handbook of Applied Cryptography,” *CRC Press;* ISBN: 0-8493-8523-7
  This is the technical book you should get after Schneier. There is a lot of heavy-duty math in this book, but it is nonetheless usable for those who do not understand the math.

- Richard E. Smith, “Internet Cryptography,” *Addison-Wesley Pub Co*; ISBN: 020192480
  This book describes how many Internet security protocols. Most importantly, it describes how systems that are designed well nonetheless end up with flaws through careless operation. This book is light on math, and heavy on practical information.

- William R. Cheswick and Steven M. Bellovin, “Firewalls and Internet Security: Repelling the Wily Hacker” *Addison-Wesley Pub Co*; ISBN: 0201633574
  This book is written by two senior researchers at AT&T Bell Labs, about their experiences maintaining and redesigning AT&T's Internet connection. Very readable.

Advanced books

- Neal Koblitz, “A Course in Number Theory and Cryptography” *Springer-Verlag*; ISBN: 0-387-94293-9
  An excellent graduate-level mathematics textbook on number theory and cryptography.

- Eli Biham and Adi Shamir, “Differential Cryptanalysis of the Data Encryption Standard,” *Springer-Verlag*; ISBN: 0-387-97930-1
  This book describes the technique of differential cryptanalysis as applied to DES. It is an excellent book for learning about this technique.

Installing PGP Command Line 2

This chapter describes how to install PGP Command Line for Windows and UNIX software. Before you begin installing PGP Command Line, be sure to review the system requirements outlined below.

System Requirements

To install PGP Command Line on a Windows NT or Windows 2000 system, you must have:

- Windows NT version 4.0 or higher (Service Pack 3 or later), or Windows 2000
- 32MB RAM minimum
- 6MB disk space for software

To install PGP Command Line on a UNIX system, you must have:

- One of these flavors of UNIX:
  - Sun Solaris for SPARC version 2.51 or later
  - AIX 4.2 or later
  - HPUX 10.20 or later
  - Linux x86 Red Hat (RPM) 5.0 or later
- 64MB RAM minimum for Solaris
  32MB RAM minimum for Linux, AIX, and HPUX
- 9MB disk space for software
- 9MB disk space in `/opt` directory for Solaris

Installing PGP Command Line on a Windows NT or Windows 2000 System

You can download PGP Command Line software from the Network Associates Web site, your company's download directory, or load the software from a CD-ROM. The self-extracting file, SETUP.EXE, automatically extracts and installs all of the necessary software components in their proper directory locations.

To install PGP Command Line on a Windows NT or Windows 2000 machine:

1. Start the Windows NT or Windows 2000 system.
2. Download the PGP files to the system or insert the PGP CD-ROM into the CD-ROM drive.
3. Double-click SETUP.EXE to start the Setup program.

   NOTE: If you are installing from the CD-ROM, the Setup program automatically starts. If, however, the Setup program does not initiate, double-click SETUP.EXE in the Disk 1 folder on the CD-ROM.

   The **PGP Command Line Welcome** screen appears.
4. Review the information in the **Welcome** screen, then click **Next**.

   The Network Associates license agreement appears.
5. Review the license agreement information, then click **Yes** to accept the licensing terms.
6. Use the default destination directory or click **Browse** to navigate to a directory for your PGP files, then click **Next**.

   The PGP files are copied to the computer.
7. Click **Finish** to complete PGP Command Line installation.

   The WhatsNew.txt file appears listing the new features and other important information regarding PGP Command Line.

Installing PGP Command Line on a Solaris System

You can download the PGP software from the Network Associates Web site, your company's download directory, or load the software from a CD-ROM. The Solaris package automatically extracts and installs all of the necessary software components in their proper directory locations.

To install the Command Line on a Sun SparcStation

To install the software, you must have root privileges.

1. Download the PGP package to the system or insert the PGP CD-ROM into the CD-ROM drive.
2. If this is the first time you are installing the PGP Command Line product on this system, navigate to the directory where the PGPcmdfw_x.x.x_Solaris file is located, and begin installing the package by issuing the following command:

   ```
   pkgadd -d PGPcmdfw_x.x.x_Solaris
   ```

   (where x.x.x is the release number)

   If a previous version of the Command Line is installed on this system, you must remove it before you can install the new package. You can remove the installed package by issuing the following command:

   ```
   pkgrm PGP
   ```

   NOTE: If you install from a CD-ROM drive under Sun Solaris, you may receive a warning that tells you that the file system does not conform to ISO-9660 specifications. This is because the name of the file has more than eight characters. Ignore this warning; the install will proceed without problems.

3. Review the license agreement information, then type `Y` to accept the licensing terms.

   The installer processes the package and system information, verifies disk space requirements, and installs PGP Command Line program files.

   NOTE: The program files are installed to the default installation path of `/opt/PGP/`.

4. When the installation is complete, you can verify that the product was installed properly by entering the following command:

   ```
   pkginfo -l PGP
   ```

   The status for the selected package should be “STATUS: completely installed.”

Installing PGP Command Line on AIX and HPUX systems

You can download the PGP software from the Network Associates Web site, your company’s download directory, or load the software from a CD-ROM. To install the software, you must have root privileges.

To install PGP Command Line on AIX and HPUX systems

1. Download the PGP package to the system or insert the PGP CD-ROM into the CD-ROM drive.
2. Uncompress the package by issuing the following command:

   ```
   gzip -d < PGPcmdfw_x.x.x_AIX.tar.gz | tar xvf -
   ```

   or

   ```
   gzip -d < PGPcmdfw_x.x.x_HPUX.tar.gz | tar xvf -
   ```

   (where `x.x.x` is the release number)

   When the package is uncompressed, the `pgp-x.x.x/` directory is created.
3. To run PGP Command Line application, enter the following command:

   ```
   ./pgp
   ```

Installing PGP Command Line on Linux Systems

You can download the PGP software from the Network Associates Web site, your company's download directory, or load the software from a CD-ROM.

To install PGP Command Line on Linux RPM systems

To install the software, you must have root privileges.

1. Download the PGP files to the system or insert the PGP CD-ROM into the CD-ROM drive.
2. Install the package by issuing the following command:

   `rpm -iv PGPcmdfw_x.x.x_linux.i386.rpm`

   (where `x.x.x` is the release number)

   The PGP program files are copied to the system.
3. When installation is complete, verify the PGP signature file by adding the PGP signature in the SampleKeys.asc file found in `/usr/doc/pgp-x.x.x/` directory to your keyring.

   Once the PGP signature is added to your keyring, issue the following command:

   `rpm --checksig PGPcmdfw_x.x.x_linux.i386.rpm`

   (where `x.x.x` is the release number)

   If the signature is correct, the response from this command is "OK".

Configuring PGP Command Line

For information about using PGP Command Line, refer to PGP Command Line User's Guide included with the product.

Index