



LOKKBOX

DOCUMENTATION INSTALLING AND UNINSTALLING

Copyright Notice

The use and copying of this product is subject to a license agreement. Any other use is prohibited. No part of this publication may be reproduced, transmitted, transcribed, stored in a retrieval system or translated into any language in any form by any means without the prior written consent of us. Information in this manual is subject to change without notice and does not represent a commitment on the part of the vendor. We do not warrant that this document is error free. If you find any errors in this document, please report to us in writing.

This product includes software developed by the Apache Software Foundation (<http://www.apache.org/>).

Trademarks

Microsoft, Windows, Microsoft Exchange Server and Microsoft SQL Server are registered trademarks of Microsoft Corporation.
Sun, Solaris, SPARC, Java and Java Runtime Environment are registered trademarks of Sun Microsystems Inc.
Oracle, Oracle 8i, Oracle 9i are registered trademarks of Oracle Corporation.
Lotus, Domino, Notes are registered trademark of IBM Corporation.
Red Hat is registered trademark of Red Hat, Inc.
Linux is registered trademark of Linus Torvalds.
Apple and Mac OS X are registered trademarks of Apple Computer, Inc.

All other product names are registered trademarks of their respective owners.

Disclaimer

Lokkbox LLC will not have or accept any liability, obligation or responsibility whatsoever for any loss, destruction or damage (including without limitation consequential loss, destruction or damage) however arising from or in respect of any use or misuse of or reliance on this document. By reading and following the instructions in this document, you agree to accept unconditionally the terms of this Disclaimer and as they may be revised and/or amended from time to time by Lokkbox LLC without prior notice to you.

1 Installing Lokkbox OBM

Before you can start backing up data to the Lokkbox Online Backup Service (Lokkbox OBS), you need to install the Lokkbox Online Backup Manager (Lokkbox OBM) onto your computer.

1.1 Installing Lokkbox OBM for Windows

- a. Download the Lokkbox OBM installer (obm-win.exe) from within the 'My Account' section of www.lokkbox.com (you must have signed up for a free trial or active account to access this).
- b. Follow the instructions on the installation wizard to complete installation
- c. When finished, a new icon (Lokkbox OBM) will be installed to the system tray (near the clock) automatically and Lokkbox OBM will be launched automatically.
- d. If this is your first time logging into the server, you will be guided to create a backup set:
 - i. Enter a backup set name of your choice in the [Name] field and choose the type of backup set in the [Type] field
 - ii. Select the files that you want to backup
 - iii. Setup the backup schedule by pressing the [Add] button (please note that you can add multiple backup schedules to a backup set and please select the "Run scheduled backup on this computer" checkbox if you would like to run Continuous Data Protection (CDP))
 - iv. Setup the encryption setting for your backup set (if you don't know much about encryption, just accept the default values here)
 - v. Press the [OK] button to complete the configuration of the backup set. Scheduled backup will run automatically if you leave your computer on.
- e. To run a backup immediately, click [Backup] button on the left panel, select the backup set and press [OK] button.
- f. Setup completed.

1.2 Installing Lokkbox OBM for Mac OS X

- a. Download the Lokkbox OBM installer (obm-mac.zip) from the 'My Account' section of www.lokkbox.com (you must have signed up for a free trial or active account to access this).
- b. Expand the archive and run the installation wizard [Lokkbox OBM] within the archive.
- c. Restart your Mac. Double click the desktop Lokkbox OBM icon to start.
- d. If this is your first time logging into the server, you will be guided to create a backup set:
- e. Setup the backup schedule by pressing the [Add] button (please note that you can add multiple backup schedules to a backup set and please select the "Run scheduled backup on this computer" checkbox if you would like to run Continuous Data Protection (CDP))
- f. Setup the encryption setting for your backup set (if you don't know much about encryption, just accept the default values here)
- g. Press the [OK] button to complete the configuration of the backup set. Scheduled backup will run automatically if you leave your computer on.
- h. To run a backup immediately, click [Backup] button on the left panel, select the backup set and press [OK] button.
- i. Setup completed.

1.3 Installing Lokkbox OBM for Linux/Unix/Solaris

Linux

- a. Download the Lokkbox OBM tarball release (obm-nix.tar.gz) from the 'My Account' section of www.lokkbox.com (you must have signed up for a free trial or active account to access this).

- b. Unpack the install file to /usr/local/obm

```
# mkdir /usr/local/obm
# cd /usr/local/obm
# gunzip obm-nix.tar.gz
# tar -xf obm-nix.tar
```

- c. Install Lokkbox OBM

```
# ./bin/install.sh >install.log
```

All installation information can be found in the file "install.log"

The backup scheduler and autoupgrade services are automatically installed. Backup sets can now run at their scheduled times automatically.

- d. Please go to X Window or command line mode to continue installation.

Solaris

- a. Download the Lokkbox OBM tarball release (obm-nix.tar.gz) from the 'My Account' section of www.lokkbox.com (you must have signed up for a free trial or active account to access this).

- b. Unpack the install file to /usr/local/obm

```
# mkdir /usr/local/obm
# cd /usr/local/obm
# gunzip obm-nix.tar.gz
# tar -xf obm-nix.tar
```

- c. Remove bundled jvm

```
# rm -rf /usr/local/obm/jvm
```

- d. Install J2SE Java Runtime Environment (JRE) 1.4.x or later to /usr/java

- e. Create a symbolic link for JRE

```
# ln -s /usr/java /usr/local/obm/jvm
```

- f. Set the JAVA_HOME environment variable

```
# JAVA_HOME=/usr/java; export JAVA_HOME
```

- g. Install Lokkbox OBM

```
# ./bin/install.sh >install.log
```

All installation information can be found in the file "install.log"

The backup scheduler and autoupgrade services are automatically installed. Backup sets can now run at their scheduled times automatically.

- h. Please go to X Window or command line mode to continue installation.

BSD

- a. Download the Lokkbox OBM tarball release (obm-nix.tar.gz) from the 'My Account' section of www.lokkbox.com (you must have signed up for a free trial or active account to access this).

- b. Unpack the install file to /usr/local/obm

```
# mkdir /usr/local/obm
# cd /usr/local/obm
# gunzip obm-nix.tar.gz
# tar -xf obm-nix.tar
```

- c. Remove bundled jvm

```
# rm -rf /usr/local/obm/jvm
```

- d. Download J2SE Java Runtime Environment (JRE) 1.4.x or later

Depending on your platform and BSD release, download the corresponding JRE and dependant packages. For example, we are using FreeBSD 6.1 i386 for installation:

Download javavmwrapper-2.3.tbz and diablo-jre-freebsd5.i386.1.5.0.07.01.tbz in the following links.

<http://www.freebsd-fr.org/ports/java.html#javavmwrapper-2.3>

<http://www.freebsdoundation.org/downloads/java.shtml>

http://www.freebsd.org/ports/java.html#diablo-jre-1.5.0.07.01_3 (See package

dependency of your machine)

- e. Install J2SE Java Runtime Environment (JRE) 1.4.x or later to /usr/local/diablo-jre1.5.0
Use following command to install package

```
# pkg_add javavmwrapper-2.3.tbz
```

```
# pkg_add diablo-jre-freebsd5.i386.1.5.0.07.01.tbz
```

- f. Create a symbolic link for JRE

```
# ln -s /usr/local/diablo-jre1.5.0 /usr/local/obm/jvm
```

If you are using csh as your shell, you need to type "rehash" and hit enter to make the

symbolic link take effect. For other shell types it should work.

```
# setenv JAVA_HOME /usr/local/obm/jvm
```

- g. Verify the installed JRE

```
$JAVA_HOME/bin/java -version
```

See if the output does not contain warning

With warning

```
Java HotSpot(TM) Client VM warning: Can't detect initial thread stack location java version "1.4.2_12"
```

```
Java(TM) 2 Runtime Environment, Standard Edition (build 1.4.2_12-b03)
```

```
Java HotSpot(TM) Client VM (build 1.4.2_12-b03, mixed mode)
```

Without warning

```
java version "1.5.0"
```

```
Java(TM) 2 Runtime Environment, Standard Edition (build diablo-1.5.0-b01)
```

```
Java HotSpot(TM) Client VM (build diablo-1.5.0_07-b01, mixed mode)
```

- h. Install Lokkbox OBM

```
# ./bin/install.sh >install.log
```

All installation information can be found in the file "install.log"

- i. Install the backup scheduler and autoupgrade services

Add two entries to system file /etc/rc.conf for auto starting backup scheduler and autoupgrade agent.

```
# obmaua_enable="YES"
```

```
# obmscheduler_enable="YES"
```

Restart computer or run the following scripts

```
# /usr/local/etc/rc.d/obmscheduler start &
```

```
# /usr/local/etc/rc.d/obmaua start &
```

The backup scheduler and autoupgrade services are automatically installed. Backup sets can now run at their scheduled times automatically. *

- j. Please go to X Window or command line mode to continue installation

X-Windows

- a. Set the DISPLAY environment variables

Linux / Unix (sh, bash): DISPLAY=IP_ADDRESS_OF_XTERMINAL[:0.0]; export DISPLAY

For example

```
DISPLAY=:0.0; export DISPLAY
or DISPLAY=127.0.0.1; export DISPLAY
or DISPLAY=127.0.0.1:0.0; export DISPLAY
or DISPLAY=192.168.0.2; export DISPLAY
or DISPLAY=192.168.0.2:0.0; export DISPLAY
```

BSD (csh): setenv DISPLAY IP_ADDRESS_OF_XTERMINAL[:0.0]

For example

```
setenv DISPLAY :0.0
or setenv DISPLAY 127.0.0.1
or setenv DISPLAY 127.0.0.1:0.0
or setenv DISPLAY 192.168.0.2
or setenv DISPLAY 192.168.0.2:0.0
```

- b. Run Lokkbox Online Backup Manager

```
# sh /usr/local/obm/bin/BackupManager.sh &
```

- c. If you have a backup account already, select [already a user?] and logon to the server with your existing username and password.
- d. If this is your first time logging into the server, you will be guided to create a backup set
 - i. Enter a backup set name of your choice in the [Name] field and choose the type of backup set in the [Type] field
 - ii. Select the files that you want to backup
 - iii. Setup the backup schedule by pressing the [Add] button (please note that you can add multiple backup schedules to a backup set and please select the "Run scheduled backup on this computer" checkbox if you would like to run Continuous Data Protection (CDP))
 - iv. Setup the encryption setting for your backup set (if you don't know much about encryption, just accept the default values here)
 - v. Press the [OK] button to complete the configuration of backup set
- e. To run a backup immediately, click [Backup] button on the left panel, select the backup set and press [OK] button.
- f. Setup completed.

Command Line Mode

- a. Use the web interface to add, update and remove backup sets
 - a. If you want to update a backup set, make changes to a backup set and press the [Update] button Enter your [Email] in the text field provided
 - b. If you want to add a new backup set, click the [Add] link
 - c. If you want to remove a backup set, Select the backup set to be remove and click the [Remove] link
- b. Using Backup Configurator

```
# sh /usr/local/obm/bin/Configurator.sh
```

- c. Enter your Login Name, Password, Backup Server URL and proxy setting as shown below

```
Login Name: userXXX
```

```
Password: *****
```

```
Backup Server URL: xxx.yyy.com
```

```
Which Protocol ? (1) Http (2) Https : 1
```

```
Use proxy ? (Y)es or (N)o : Y
```

```
Proxy Type ? (1) Http/Https Proxy (2) SOCKS : 1
```

```
Enter proxy server : aaa.bbb.com
```

```
Enter proxy port : xxx
```

```
Enter proxy username (optional) : administrator
```

```
Enter proxy password (optional) : *****
```

- d. If you have created a new backup set using the web interface, you set the encrypting key, the encrypting algorithm and the encrypting mode of this backup set by following instructions below.

Important: You cannot change these parameters once they are set

```
Found new backup set 'xxx'
```

```
Please enter the following values for this backup set:
```

```
Encrypting Algorithm ?
```

```
(1) Twofish (2) AES (3) Triple DES (4) No encryption : 1
```

```
Encrypting Key: *****
```

```
Re-Enter Encrypting Key: *****
```

```
Encrypting Mode ? (1) ECB (2) CBC : 1
```

```
Run scheduled backup on this computer ? (Y)es or (N)o : Y
```

- e. If you want to make any changes to the setting above, you can use the main menu below to do so.

```
Main Menu:
```

```
-----
```

- (1). List Backup Setting
- (2). Change Password
- (3). Change Network Setting
- (4). Change run scheduled backup setting
- (5). Toggle Masked Field (Password, Encryption Key)
- (6). Generate Configuration Report (text format)
- (7). Quit

Your Choice:

- f. You can then run a backup by executing the command below.
 - i. `# sh /usr/local/obm/bin/RunBackupSet.sh [BACKUP_SET]`

where [BACKUP_SET] is the name of backup set to be run

- g. Setup completed.

* The backup scheduler and autoupgrade services are verified to install successfully on Solaris, FreeBSD and all major Linux distributions. If these services for other platforms cannot be installed, please refer to the specific OS manual for further information.

1.4 Installing Lokkbox OBM for Netware

- a. Download the Lokkbox OBM zip release (obm-netware.zip) from the 'My Account' section of www.lokkbox.com (you must have signed up for a free trial or active account to access this).
- b. Expand the zip file to SYS:\Lokkbox OBM
- c. Install Lokkbox OBM

```
SYS:\> SYS:\OBM\aua\bin\install-aua.ncf
```

- d. Start Auto Upgrade Agent

```
SYS:\> SYS:\OBM\aua\bin\startup.ncf
```

- e. If you want scheduled backup to run automatically, you must start the backup scheduler by

```
SYS:\> SYS:\OBM\bin\Scheduler.ncf
```

All backup sets will now be run at their scheduled times automatically.

- f. Open Lokkbox OBM by running SYS:\Lokkbox OBM\bin\RunBackupManager.ncf
- g. If this is your first time logging into the server, you will be guided to create a backup set
 - i. Enter a backup set name of your choice in the [Name] field and choose the type of backup set in the [Type] field
 - ii. Select the files that you want to backup
 - iii. Setup the backup schedule by pressing the [Add] button (please note that you can add multiple backup schedules to a backup set and please select the "Run scheduled backup on this computer" checkbox if you would like to run Continuous Data Protection (CDP))
 - iv. Setup the encryption setting for your backup set (if you don't know much about encryption, just accept the default values here)
 - v. Press the [OK] button to complete the configuration of backup set
- h. To run a backup immediately, click [Backup] button on the left panel, select the backup set and press [OK] button.
- i. Setup completed.

2 Uninstalling Lokkbox OBM

This section describes the steps required to uninstall Lokkbox OBM from your computer.

2.1 Uninstalling Lokkbox OBM for Windows

- a. Open [Start] -> [Control Panel] -> [Add/Remove Programs]
- b. Select [Lokkbox Online Backup Manager] from the list and press the [Remove] button

2.2 Uninstalling Lokkbox OBM for Mac OS X

- a. Remove all program files by running

```
# cd $OBM_HOME/bin  
# sudo ./uninstall.sh
```

- b. Remove all backup setting by removing ~/.obm

```
# rm -rf ~/.obm
```

- c. Restart your computer

2.3 Uninstalling Lokkbox OBM for Linux/Unix/Solaris

- a. Run the uninstall scripts

```
# sh /usr/local/obm/bin/uninstall.sh
```

```
Removing Scheduler from service using script name obmscheduler  
Using init script path /etc/init.d  
Using run level script path /etc/rc.d  
Removing symbolic link from run levels  
Removing script file obmscheduler from /etc/init.d  
Shutting down AutoUpdateAgent  
Waiting 5 seconds for AutoUpdateAgent to clean up  
Removing AutoUpdateAgent from service using script name  
Using init script path /etc/init.d  
Using run level script path /etc/rc.d  
Removing symbolic link from run levels  
Removing script file obmaua from /etc/init.d  
Online Backup Manager uninstall service is complete!  
It is now safe to remove files from /usr/local/obm
```

- b. Remove installed files and all application data

```
#rm -rf /usr/local/obm  
#rm -rf ~/.obm
```

- c. Uninstall complete

2.4 Uninstalling Lokkbox OBM for Netware

- a. Stop the running backup scheduler by running

```
SYS:\> touch SYS:\OBM\ipc\Scheduler\stop
```

- b. Stop the running auto upgrade agent by running

```
SYS:\> SYS:\OBM\aua\bin\shutdown.ncf
```

- c. Remove all program files by removing the directory SYS:\OBM
 - i. Remove all backup settings by removing the directory SYS:\.OBM