AhsayRPS v5.5

Administrator's Guide

Version 5.5 Aug 2008

Ahsay Replication Server v5.5

Administrator's Guide

Copyright Notice

© Ahsay Systems Corporation Limited 2008. All rights reserved.

Author: Scherring Chong

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 Ahsay Systems Corporation Limited. Information in this manual is subject to change without notice and does not represent a commitment on the part of the vendor. Ahsay Systems Corporation Limited does not warrant that this document is error free. If you find any errors in this document, please report Ahsay Systems Corporation Limited 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

Ahsay Systems Corporation Limited 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 Ahsay Systems Corporation Limited without prior notice to you.



Table of Content

1	Overvie	W	4
-	1.1	System Requirements	
2	Installat	ion	5
2	2 1	Cat Startad	
	2.1	Startun/Chutdown	
	2.2	Statup/Shutuowii	5 6
2	2.5 Demline	tion Config on AboorODS	סס. ד
3	Replica	uon Config on AnsayOBS	
	3.1	Recommendation	
	3.2	Features	
	3.3		8
	3.4 2.5	Mandatory Replication Setting	
	3.5	Connection Setting	
	3.0 2.7	Use Proxy	11 11
	3./ 2.0	ITAIIIC LIMIL	11 11
	5.0 2.0	Replication Log	1111 12
	5.9 2.10	Troubleshooting	12
4	5.10 Managar	Contains and Learn DDC	13 1 4
4	Manage	System on AnsayRPS	
	4.1	Server Configuration	
	4.2	System Log	15
5	Manage	Receiver on AhsayRPS	
	5.1	Add	16
	5.2	List	17
	5.3	Profile	18
	5.4	File Explorer	19
	5.5	Replication Log	19
6	Other C	onfiguration	
	6.1	Starting up Replication server as AhsayOBS	
7	Frequer	tly Asked Questions	
	7.1	How do I restore files from AhsayRPS?	
	7.2	Is it possible to assign user home from AhsayOBS to store under different partition on AhsayRPS?	
8	Append	ixes	22
0	81	Further Information	
	0.1	1 414101 1110111441011	



1 Overview

1.1 System Requirements

Server-side	applications	
	Supported Platforms	Hardware Requirements
AhsayOBS	 Windows 2000 / 2003 (server recommended) Linux kernel 2.4 or above Solaris 2.x or above AIX HP-UX FreeBSD Mac OS X 10.3 or above All other operating systems that supports Java2 Runtime Environment 1.4.2 or above 	 Memory: 512MB (minimum) 1GB (recommended) Disk Space: 300MB Network Protocol: TCP/IP (http/https)
AhsayRPS	 Windows 2000 / 2003 (server recommended) Linux kernel 2.4 or above Solaris 2.x or above AIX HP-UX FreeBSD Mac OS X 10.3 or above All other operating systems that supports Java2 Runtime Environment 1.4.2 or above 	 Memory: 128MB (minimum) 512MB (recommended) Disk Space: 100MB Network Protocol: TCP/IP (http/https)

* The use of Windows 2000 WorkStation and XP Professional is only recommended for backup system with less than 20 users. For 20 or more users, please use Windows 2000 or 2003 Server instead.



2 Installation

This chapter describes how to install/uninstall AhsayRPS onto/from your computer and how to startup/shutdown the AhsayRPS software installed on your computer.

2.1 Get Started

Please refer to the Installation and Upgrade Guide for Ahsay Replication Server.

2.2 Startup/Shutdown

To startup/shutdown AhsayRPS, please do the followings:

On Windows

- i. Logon as [Administrator] to Windows
- ii. Select [Ahsay Replication Server] service from:

For Windows NT [Control Panel] → [Services]

Windows XP

```
[Control Panel]

→ [Performance and Maintenance]

→ [Administrative Tools]

→ [Services]

Windows 2000/2003
```

[Control Panel] → [Administrative Tools] → [Services]

- iii. To startup AhsayRPS, press the [Start] button
- iv. To shutdown AhsayRPS, press the [Stop] button

<u>On Linux</u>

- i. Logon as [root] to linux
- ii. To startup AhsayRPS, please run

[root]# sh \$RPS_HOME/bin/startup.sh

iii. To shutdown AhsayRPS, please run

[root]# sh \$RPS_HOME/bin/shutdown.sh



2.3 Uninstall Software

Please follow the following instructions to remove AhsayRPS from your computer:

On Windows

- i. Logon as [administrator] to windows
- ii. From [Control Panel] -> [Add or Remove Program]
- iii. Select [Ahsay Replication Server]
- iv. Press the [Change / Remove] button
- v. Press the [Uninstall] on the uninstall dialog
- vi. Remove the directory [C:\Program Files\Ahsay Replication Server] manually

<u>On Linux</u>

- i. Logon as [root] to linux
- ii. To uninstall AhsayRPS

[root]# sh \$RPS_HOME/bin/uninstall.sh

iii. Delete all files

[root]# rm -rf \$RPS_HOME

- iv. Remove all user files manually if they are not stored under \$RPS_HOME
- v. (optional) Remove \$RPS_HOME and \$LD_ASSUME_KERNEL environment variables



3 Replication Config on AhsayOBS

This chapter describes how you can use the [Manage System] -> [Replication Config] page to manage the AhsayOBS replication module which allows you to perform real-time replication of all backup data and backup program files on the AhsayOBS to Ahsay Replication Server (AhsayRPS).

AhsayOBS replication module is designed to provide replication services for AhsayOBS only and it does not provide general replication service for other files within the system. This means that you cannot use AhsayOBS replication module to replicate your Windows server to another server.

3.1 Recommendation

AhsayOBS replication module makes heavy use of the [Manage System] -> [System Home] directory to create a consistent view of the backup file system under SYNC replication mode. Please make sure that you have set the [Manage System] -> [System Home] directory to a partition with many free space (at least 10GB) before turning on the AhsayOBS replication module.

3.2 Features

AhsayOBS replication module is specially designed for replicating both backup data and backup program executables to another server. Since it is an AhsayOBS aware replication module, it has the following benefits over using other external synchronizing software (e.g. rsync or Microsoft Replication Services) in the context of replicate backup data on AhsayOBS to another server:

i. <u>Real time replication</u>

When a backup block arrives at the backup server, it is automatically put into the replication queue. Data in the replication queue are replicated to AhsayRPS immediately (or at a delay of at most 2 minutes). No replication schedules or extensive checking of whether each file should be replicated are required

ii. Platform Independence

You can run AhsayOBS and AhsayRPS on any operating systems that you want. This means that you can have AhsayOBS running on Windows and AhsayRPS running on Linux (or other possible combinations).

iii. No intervention to backup system

Since AhsayOBS replication module will be replicating transaction log files, instead of the actual backup files, to the AhsayRPS, normal write access to the backup files won't be interrupted and this can ensure normal backup operation of AhsayOBS.

iv. Secured and compression connection

Replication data are transported under a 128-bit SSL and compressed channel. Data transferred between AhsayOBS and AhsayRPS are secured and optimized.

v. <u>Transaction Log level replication</u>

AhsayOBS replication module logs all transaction made on the AhsayOBS and replicates only the transaction log file to AhsayRPS. This means that only changes applies to the backup system data will be required to be replicated to the AhsayRPS.

vi. <u>Replicating selective users from AhsayOBS to AhsayRPS</u>

Starting from version 5.5, it is possible to select specific users of AhsayOBS to replicate to AhsayRPS, instead of just replicating the whole user-homes.



3.3 Overview

To understand how AhsayOBS replication module works, you first need to understand how transaction logged is performed and the different replication modes AhsayOBS can be in when AhsayOBS is running with the replication module enabled.

Replication settings are saved in [OBS_HOME] / conf / lfsconfig.xml and [OBS_HOME] / conf / rpsSend.xml.

Transaction Logging

When backup data arrives on the backup server, an extra copy of these data is saved in the transaction log files. (It only happens when AhsayOBS replication module is in logging or in SYNC. Please refer to the following sections for more information on replication mode.) Transaction log files will then be replicated to AhsayRPS and replayed into the backup files replicated to AhsayRPS already to produce a consistent backup image of all data available on the backup server.

Transaction log files are saved in [System Home] / logfiles / log???.alf (e.g. log0395.alf where "0395" is the sequence number of the transaction log files). When using AhsayOBS with replication module enabled, please make sure that the [Manage System] -> [System Home] setting is set a disk partition with lots of disk space.

To provide a consistent view of the backup file system while AhsayOBS is running in SYNC mode, AhsayOBS uses the [System Home] / sync / *** directory to store many of the temporary files required. Please don't temper with this directory and make sure that it has lots of free space.

How replication runs

When AhsayOBS replication module is running, it can be in [UNSYNC], [SYNC] or [LOGGING] mode. To understand what are the meanings of these replication modes, it is important to understand how data get replicated to AhsayRPS from AhsayOBS.

i. <u>Refreshing File</u>

When AhsayOBS module is started up, it first replicates AhsayOBS program binaries and configuration files to AhsayRPS in its [Refreshing File] mode. No backup data under [System Home] and [User Homes] will be replicated to AhsayRPS by this task.

Since program binaries and configuration files rarely change and there are limited numbers of these files, this task should be able to complete fairly quickly.

During the execution of this task, transaction logging of AhsayOBS is disabled. Backup data write directly and only to the backup files.

ii. UNSYNC Replication

After the replication module has finished replicating all program binaries and configuration files, it will start replicating all files under the [System Home] and [User Homes] directories to AhsayRPS.

During the execution of this task, transaction logging of AhsayOBS is disabled. Backup data write directly and only to the backup files.

iii. SYNC Replication

Since it could take hours (or even days) to replicate all backup data from AhsayOBS to AhsayRPS, by the time all files under [System Home] and [User Homes] are worked through once, some files might have been added/removed from the directories. To ensure AhsayRPS contains an exact copy of all files available in [System Home] and [User Homes] directories on AhsayOBS, there should be no changes to all files under these directories during the replication process. To do so, AhsayOBS replication module will put AhsayOBS into a SYNC mode. It has the following effects:

- a. System data generated by AhsayOBS will now be saved to the transaction log files instead of to files under the [System Home] directory.
- b. There will be no changes to all files under the [User Homes] and [System Home] directories
- c. Before leaving the SYNC mode, AhsayOBS replication module will replay all transaction logs recorded to its supposed target files in the [User Homes] and [System Home] directories.



Upon the completion of this task, both AhsayOBS and AhsayRPS will then be synchronized. AhsayOBS should have all transaction logs replayed into the [User Homes] and [System Home] directories. Although the [User Homes] and [System Home] directories on AhsayRPS doesn't contains the changes after all transaction logs has been replayed, synchronization can be easily done by replicating the transaction log files over from AhsayOBS to AhsayRPS and replaying these transaction logs on AhsayRPS as it has been done on AhsayOBS.

iv. Transaction Logs Replication

Transaction log files are replicated from AhsayOBS to AhsayRPS in this task.

During the execution of this task, transaction logging of AhsayOBS is enabled. Backup data are written directly to the backup files that they are supposed to go to as well as to transaction log files.

Since data in the [User Homes] and [System Home] directories of AhsayOBS and AhsayRPS have been synchronized already in SYNC mode, it requires only replaying all transaction log files recorded after the beginning of the SYNC period on the AhsayRPS to bring AhsayRPS into a consistent state with AhsayOBS.

When there are no backup activities and all pending transaction log files have been replicated to AhsayRPS, transaction log files are replicated to AhsayRPS every 2 minutes (even when it is empty). This will ensure that partial records within the transaction log files get replicated to AhsayRPS in close to "real" time. Since compression is enabled by default, replicating an empty transaction log file doesn't take up too much network bandwidth.

v. Monthly RESYNC

To ensure that the replication server is in full sync with the backup server after lots of transaction logs have been applied on the replication server, a monthly RESYNC job will run on the first Saturday of each month at 1:00pm (noon) automatically, if replication is in LOGGING mode. This involves running "Refreshing Files", "UNSYNC Replication" and "SYNC replication" described above all over again (During the RESYNC, the UNSYNC mode is skipped if the replication process has been running in LOGGING mode within the last 7 days).

<u>Workflow</u>

The following is an example of entries that you are likely to find on the [Manage Log] -> [Replication Log] page.

```
[Start] Replication
[Start] Refreshing File
...
Replicating '/usr/local/obs/logs/root_log.2005-07-13.txt' (1k)
...
[End] Refreshing File
[Start] Replicating files in UNSYNC mode
...
Replicating '/user/john/files/1119083740107/Current/0x0b/0xe5/0x17/0x99/158536666' (9k)
...
Replicating files in UNSYNC mode
...
Replicating files in SYNC mode
...
Replicating '/user/john/files/1119083740107/Current/0x0b/0xe5/0x17/0x99/258976864' (20k)
...
Replicating i/user/john/files/1119083740107/Current/0x0b/0xe5/0x17/0x99/258976864' (20k)
...
Replicating i/user/john/files/1119083740107/Current/0x0b/0xe5/0x17/0x99/258976864' (20k)
...
Replicating files in SYNC mode
...
Replicating '/dp1/system/logfiles/log0014.alf' (20M)
Replicating '/dp1/system/logfiles/log0016.alf' (20M)
...
[End] Replication
```

3.4 Mandatory Replication Setting

To setup replication on AhsayOBS, please browse to [Manage System] -> [Replication Config] page on the web interface and do the followings:

i. Make sure that you have setup and started a receiver for this AhsayOBS on the replication server



- ii. Enter the [Username], [Password], [Target Host] and [Port] text field on the configuration page
- iii. Check the [Enable Replication] checkbox
- iv. Press the [Update] button at the button of the page
- v. Finish (You can now use the [View Replication Log] link to review the replication logs)

A Abagura Officite Realium Service	Manage System Mana	age Log Manage User	Administrator's Guide Select Language
S Ansay - Onsile Backup server	Server Configuration R	Coutine Job Software License Replication Config Other Options	Logout
O Switch to Ahsay™ Replication Server	Enable Replicatio		View Peoplication Log
a Introduction			Mew Replication Lou
Understanding Absay Online Backup Suite	Username		
G Absav™ Offsite Backup Server (Absav0BS)	Password		
is a server application which offers online backup services to its users.	Target Host	: target.your-company.com Port : 9444	Adversed Onlines A
Ahsay [™] Online Backup Manager	Concerning Collins		Advanced Options ×
(AnsayOBM) is a full-featured client application used to backup data to the AhsayOBS.	Use SSI	• Vac	
O Ahsay™ A-Click Backup (AhsayACB) is a life	Compression	Yes	
client application for easy backup / recovery of files to / from the AbsavOBS	Use Proxy		
Ahsay™ Replication Server (AhsayRPS)	Туре	: HTTP 🔻	
provides an offsite store for backed up data from multiple AhsayOBSs.	Proxy Host	: Port :	
	Proxy Username	(optional)	
Getting Started with AhsayOBM	Descent Descented		
Getting Started with AhsayACB ▼	Proxy Password	(optional)	
Kau Faaturaa	Traffic Limit Setting		
Key reatures V	Traffic Limit	New From Sun 00 100 (HH:MM)	
		To Sun V 00 V :00 V (HH:MM)	
System Management 🗸 🔻		Maximum Transfer kbytes / Second	
Contact us	Selective user replic	cation (replication must be disabled before making changes)	
	Replicate all use	rs	
	C Replicate select	ed users only	
		Update Reset	
	Key:	the second to be used and builter to second baset	
	Password	Password to be verified by the target host	
	Taxaat Host	Hesterma of the realization server	
Edit [INSTALL_FOLDER] \ webapps \ ROOT \ lib \ common is to customize your company logo and the	Port	TCP Part number used by the replication server	
names of softwares. After that, you can delete the	Traffic Limit	Limit the usage of network bandwidth by the realization service	
content of "RenameProcedure" to remove this line.	Demand by Abasy Optics D	chine the usage of network adhumatin by the replication service	<u>.</u>
	Copyright (c) 1999-2008	aukup Sontware, Standard Evaluation Editori	Buy Licenses Online!

Кеу	Description
Username	Username of the replication receiver on the replication
	server
Password	Password of the replication receiver on the replication server
Target Host	Host name (or IP address) of the replication server
Port	TCP port number used by the replication server for this
	receiver

The [View Replication Log] link will bring you to the <u>Replication Log</u> page. The [Advanced Options] link will open up some other optional configurable parameters on the page. The meanings of these parameters are described in the following sections.

3.5 Connection Setting

You can use the [Connection Setting] section under the [Manage System] -> [Replication Config] page to configure the connection parameters for replication traffic between AhsayOBS and AhsayRPS. There are only two configurable parameters, [Use SSL] and [Compression], available and they are described in the following table. Both [Use SSL] and [Compression] parameters must be configured to be the same on both AhsayOBS and AhsayRPS. In general, it is best to enable both SSL and compression for replication traffic (default).

Кеу	Description
Use SSL	Whether to use SSL (Secure Socket Layer) for replication traffic
Compression	Whether to compress replication traffic before sending it to the replication server



3.6 Use Proxy

You can use the [Use Proxy] section under the [Manage System] -> [Replication Config] page to configure whether you want to use proxy for replication traffic between AhsayOBS and AhsayRPS. There are a few configurable parameters available and they are described in the following table.

Proxy setting is an optional setting.

Кеу	Description
Use Proxy	Whether to use Proxy for replication traffic
Туре	Proxy Type, e.g. HTTP or SOCKS
Proxy Host	Hostname or IP address of the proxy server
Proxy Port	TCP port number of the proxy server
Proxy Username (optional)	Username for the proxy server (if proxy authentication is required)
Proxy Password (optional)	Password for the proxy server (if proxy authentication is required)

3.7 Traffic Limit

You can use the [Traffic Limit] section under the [Manage System] -> [Replication Config] page to limit the amount of bandwidth used by replication traffics between specified time. There are a few configurable parameters available and they are described in the following table. Traffic Limit is an optional setting.

You can set an all-time traffic limit by setting both [From] and [To] parameters to [Sun, 00:00].

Кеу	Description
Traffic Limit	Bandwidth Throttling for replication traffic
From	Start time of enforced traffic limit period
То	End time of enforced traffic limit period
Maximum Transfer	Maximum bandwidth used between the [From] and [To] period

3.8 Selective Users

You can use the [Selective user replication] section under [Manage System] -> [Replication Config] page to select specific users for replication.

Switch to Ahsay TM Replication Server	Date (YYYY-MM-DD):		
Switch to Ahsay TM Replication Server Introduction	Date (YYYY-MM-DD):	2000.00.44	
Introduction	Date (YYYY-MM-DD):		
derstanding Absay Online Backup Suite			2008-08-14	Rows/Page: 50
derstanding Absay Online Backup Suite			<< 1 48 49 50 51 52 53 >>	
der otarining verbay tvinine backup aute	No.	Timestamp	Message	
Ahsay ¹⁰ Offsite Backup Server (AhsayOB3)	2601	01:53:34 PM	Sent 687 byte in 8 sec (85 byte/sec)	
a server application which offers online backup	2602	01:54:37 PM	RPS Version: 5.5.0.0	
rvices to its users.	2603	01:54:37 PM	CurrentLogSeq=0x553 LogSeq2Send=0x553	
Abaudit Online Basium Manager	2604	01:54:37 PM	Sent 49 byte in 1 sec (49 byte/sec)	
Ansay Online backup Manager	2605	01:55:49 PM	RPS Version: 5.5.0.0	
is a run-realured client application	2606	01:55:49 PM	CurrentLogSeq=0x554 LogSeq2Send=0x553	
to to backup data to the AnsayUDS.	2607	01:55:49 PM	Replicating //raid/data/module/obsr/system/obsr/system/loghles/log055	3.all (2k, 2008-08-14 13:55)
Ahsay™ A-Click Backup (AhsayACB) is a lite	2608	01:55:52 PM	Sent 781 byte in 14 sec (55 byte/sec)	
nt application for easy backup / recovery of files	2609	01:56:55 PM	KPS Version: 5.5.0.0	
from the AhsayOBS.	2610	01:56:55 PM	CurrentLogSeq=0x334 LogSeq2Send=0x334	
Ahsay ^m Replication Server (AhsayRPS)	2611	01:56:55 PM	Sent 49 byte in 1 sec (49 byte/sec)	
vides an offsite store for backed up data from	2612	01:57:58 PM	RPS Version: 5.5.0.0	
tole AhsavOBSs.	2613	01:57:58 PM	CurrentLogSeq=0x555 LogSeq2Send=0x554	
	2614	01:57:58 PM	Replicating /raid/data/module/obsr/system/obsr/system/loghles/log055	4.all' (3k, 2008-08-14 13:57)
	2615	01:58:04 PM	Sent 922 byte in 7 sec (131 byte/sec)	
etting Started with AhsayORM	2616	01:59:06 PM	RPS Version: 5.5.0.0	
CONTRACTOR MICHAELOUTON	2617	01:59:06 PM	CurrentLogSeq=0x555 LogSeq2Send=0x555	
atting Started with AbcauA/D	2618	01:59:06 PM	Sent 49 byte in 1 sec (49 byte/sec)	
econg started when whise yes b	2619	02:00:15 PM	RPS Version: 5.5.0.0	
au Fasturas	2620	02:00:15 PM	CurrentLogSeq=0x556 LogSeq2Send=0x555	
vey reatures	2621	02:00:15 PM	Replicating '/raid/data/module/obsr/system/obsr/system/logfiles/log055	5.alf (4k, 2008-08-14 14:00)
	2622	02:00:22 PM	Sent 1k byte in 14 sec (82 byte/sec)	
vocumentations v	2623	02:01:26 PM	RPS Version: 5.5.0.0	
	2624	02:01:26 PM	CurrentLogSeq=0x556 LogSeq2Send=0x556	
ystem Management V	2625	02:01:26 PM	Sent 49 byte in 3 sec (16 byte/sec)	
	2626	02:02:29 PM	RPS Version: 5.5.0.0	
iontact us	2627	02:02:29 PM	CurrentLogSeq=0x557 LogSeq2Send=0x556	
	2628	02:02:29 PM	Replicating '/raid/data/module/obsr/system/obsr/system/logfiles/log055	5.alf (3k, 2008-08-14 14:02)
	2629	02:02:32 PM	Sent 866 byte in 4 sec (216 byte/sec)	
	2630	02:03:38 PM	RPS Version: 5.5.0.0	
	2631	02:03:38 PM	CurrentLogSeq=0x557 LogSeq2Send=0x557	
	2632	02:03:38 PM	Sent 49 byte in 5 sec (9 byte/sec)	
	Key :			
	EN1		New Ga that does not quick on 202	
	101			
	[5]		File that has changed its size since it was last replicated to RPS	
[NSTALL_FOLDER] \ webapps \ ROOT \ lb \	[1]		File that has changed its last modified time since it was last replicated to	RPS
res of softwares. After that, you can delete the deal of "BenameProcedure" to remove this line	[51]		File that has changed both its size and last modified time since it was last	replicated to RPS
the state of the second st	Terra Contest			
	Your Com	pany Logo		Your Compa



The definitions of keywords related to the settings in this section are shown in the table below:

Кеу	Description			
Replicate all users	Replicate all the users in the user home without selection			
Replicate selected	Replicate users selected only			
users only				
No.	The count of user			
Login Name (Alias)	The login name of the user, with Alias of the user			
	bracketed behind			
Used / Quota (%)	The size of data stored on the server by the user and the			
	defined quota of size of the user. The percentage of used			
	size over quota is also included at the end.			
Replicate new users	For any new user created by the Ahsay API, the data of			
added from API	the user will be replicated.			
Replicate new users	For any new user created by Windows Active Directory			
added from LDAP	and added to AhsayOBS, the data of the user will be			
	replicated.			
Replicate new free	For any new trial users created, the data of the user will			
trial users	be replicated			
Replicate new users	For any new trial users created by AhsayOBS web-			
added from web	console, the data of the user will be replicated			
interface				

To enable this function, simply select the [Replicate selected users only] under the section of [Selective user replication], and check the boxes next to the users which are going to be replicated. You can also set the [Default settings for new users] options, which can speed up the process of creating new user account by preset the default settings of new users.

3.9 Replication Log

You can review replication log by visiting the [Manage Log] -> [Replication Log] page.

Server :::: Ahsay™ Offsite Backup Server :::::				
	System I	.og Backup Jo	b Restored File Backup Error Replication Log Advertisement Log	<u>Li</u>
Switch to Abrav [™] Penlication Server			2011 11 11 12 12 12 12 12 12 12 12 12 12 1	
Switch to Ansay Replication Server	Date (YYYY-MM-DD)	: 2008-08-14 • Rows/Page: 50	-
Introduction			44 1 48 40 E0 E1 E2 E2 N	-
desetending Abagu Opling Realium Suite		Theresel	<u><< 1 40 49 50 51 52 53 >></u>	
derstanding Ansay Online Backup Suite	NO.	O1-F2-24 DM	Pressage	
Ahsay™ Offsite Backup Server (AhsayOBS)	2001	01:55:54 PM	Sent 667 byte in 6 sec (55 byte/sec)	
a server application which offers online backup	2602	01:54:37 PM	Control of Control of Control of Control Control Control Control of Control o	
vices to its users.	2005	01:54:57 PM	Currenticogseq=0x555 cogseq/csend=0x555	
Abeau TM Online Backun Manager	2604	01:54:37 PM	Sent 49 byte in 1 sec (49 byte/sec)	
anyORM) is a full featured alight application	2605	01:55:49 PM	RPS Version: 5.5.0.0	
d to bookup date to the 6 hom OPC	2606	01:55:49 PM	CurrentLogSeq=0x554 LogSeq2Send=0x553	
u to backup data to the Ansayons.	2607	01:55:49 PM	Replicating /raid/data/module/obsr/system/obsr/system/lognies/log0553.air (2K, 2008-08-14 13:55)	
Ahsay™ A-Click Backup (AhsayACB) is a lite	2608	01:55:52 PM	Sent /81 byte in 14 sec (55 byte/sec)	
t application for easy backup / recovery of files	2609	01:56:55 PM	RPS Version: 5.5.0.0	
from the AhsayOBS.	2610	01:56:55 PM	CurrentLogSeq=0x554 LogSeq2Send=0x554	
hsay TM Replication Server (AbsayPPS)	2611	01:56:55 PM	Sent 49 byte in 1 sec (49 byte/sec)	
idee an offeite store for backed up data from	2612	01:57:58 PM	RPS Version: 5.5.0.0	
inte AheavOBSe	2613	01:57:58 PM	CurrentLogSeq=0x555 LogSeq2Send=0x554	
pie Allaayob3a.	2614	01:57:58 PM	Replicating '/raid/data/module/obsr/system/obsr/system/logfiles/log0554.alf' (3k, 2008-08-14 13:57)	
	2615	01:58:04 PM	Sent 922 byte in 7 sec (131 byte/sec)	
	2616	01:59:06 PM	RPS Version: 5.5.0.0	
etung Started with AnsayOBM	2617	01:59:06 PM	CurrentLogSeq=0x555 LogSeq2Send=0x555	
an and a second	2618	01:59:06 PM	Sent 49 byte in 1 sec (49 byte/sec)	
etting Started with AnsayACB	2619	02:00:15 PM	RPS Version: 5.5.0.0	
	2620	02:00:15 PM	CurrentLogSeq=0x556 LogSeq2Send=0x555	
ey Features	2621	02:00:15 PM	Replicating '/raid/data/module/obsr/system/obsr/system/logfiles/log0555.alf' (4k, 2008-08-14 14:00)	
	2622	02:00:22 PM	Sent 1k byte in 14 sec (82 byte/sec)	
ocumentations 💎	2623	02:01:26 PM	RPS Version: 5.5.0.0	
	2624	02:01:26 PM	CurrentLogSeg=0x556 LogSeg2Send=0x556	
vstem Management 💎 🔻	2625	02:01:26 PM	Sent 49 byte in 3 sec (16 byte/sec)	
	2626	02:02:29 PM	BPS Version: 5.5.0.0	
ontact us	2627	02:02:29 PM	Current) ogSeg=0x557 LogSeg2Send=0x556	
	2628	02:02:29 PM	Replicating '/raid/data/module/obsr/system/obsr/system/logfiles/log0556 alf (3k 2008-08-14 14:02)	
	2620	02:02:32 PM	Sant 866 bits in 4 sec (216 bits/system) dos/system ognos/ogssecial (av, 1500 co 11 1102)	
	2620	02:02:32 PM	PPC Variable 5.5.0	
	2630	02:03:30 PM	Current as a puter Lassa 2 and - 0 457	
	2031	02.03.30 PM	Contentiogseq=0x337 LogSeq23end=0x337	
	LUDE	02100100111		
	Key:			
	[N]		New file that does not exist on RPS	
	IC1		Firster to show of the size from the sector of the pro-	
	[5]		rie that has changed its size since it was last replicated to RPS	
[INSTALL_FOLDER] \ webapps \ ROOT \ lib \	[T]		File that has changed its last modified time since it was last replicated to RPS	
es of softwares. After that, you can delete the tent of "RenameProcedure" to remove this line.	[ST]		File that has changed both its size and last modified time since it was last replicated to RPS	
	-			

3.10 Restart replication service

You can restart the replication process completely from the beginning by doing the followings:

i. On AhsayRPS, uncheck the [Manage Receiver] -> [Profile] -> [Enable Replication Module] checkbox and press the [Update] button



- ii. On AhsayOBS, uncheck the [Manage System] -> [Replication Config] -> [Enable Replication] checkbox and press the [Update] button
- iii. On AhsayRPS, check the [Manage Receiver] -> [Profile] -> [Enable Replication Module] checkbox and press the [Update] button
- iv. On AhsayOBS, check the [Manage System] -> [Replication Config] -> [Enable Replication] checkbox and press the [Update] button
- v. On AhsayOBS, visit the [Manage Log] -> [Replication Log] page to check if replication starts running

3.11 Troubleshooting

If you are running into problems making the replication process works as stated in previous sections, please check the followings:

i. Make sure that the connection from AhsayOBS to AhsayRPS is not blocked by your firewall. You can test if the connection is blocked by your firewall by using the telnet command on AhsayOBS:

C: > telnet [AhsayRPS] [Port]

where [AhsayRPS] = IP address of AhsayRPS [Port] = TCP port used for replication (default port is 9444)

ii. Try setting the [Manage System] -> [Replication Config] -> [Connection Setting] -> [Use SSL] to "No" on AhsayOBS and [Manage Receiver] -> [Profile] -> [Use SSL] to "No" on AhsayRPS and restart the replication service.

If you are still having problems after checking everything above, please contact us.



4 Manage System on AhsayRPS

This chapter describes how you can use pages under the [AhsayRPS Administration Console] -> [Manage System] menu to configure AhsayRPS.

4.1 Server Configuration

The [AhsayRPS Administration Console] -> [Manage System] -> [Server Configuration] page allows you to setup the system settings of an AhsayRPS.

Absorum Replication Server	Manage System Manage R	eceiver	Administrator's Guide Select Language
Ansay Replication server	Server Configuration Sys	item Log	Logout
O Switch to Abass 70 Officite Baslow Conver			
Switch to Alisay Olisite backup server	System Setting		
Introduction	System Username	: system	
O Ahsay™ Replication Server (AhsayRPS)	System Password	: •••••	
multiple AhsayOBSs.	System home directory	: /raid/data/module/obsr/system/obsr/rps-system	
Getting Started with AhsayRPS		Update Reset	
🚖 <u>Key Features</u> 🔻 🔻	Kev: System Username	System username of this replication server	
	System Password	System password of this replication server	
system Management 🔻	System home directory	Y The directory where all system data are to be st	ored
Sentactue V			
Contact us			
Edit [INSTALL_FOLDER] \ webapps \ ROOT \ ib \ common.js to customize your company logo and the names of softwares. After that, you can delete the content of "RenameProcedureRPS" to remove this line			
	Your Company Logo		

This section describes all settings under the [Server Configuration] menu.

Кеу	Description
System Username	Username for AhsayRPS administration console
System Password	Password for AhsayRPS administration console
System home directory	Directory where AhsayRPS stores all its system and log files



4.2 System Log

The [AhsayRPS Administration Console] -> [Manage System] -> [System Log] page shows you the running status of an AhsayRPS.

Absours Paplication Conver	Mana	ge System M	anage Receiver	Administrator's Guide Select L	Langu
Ansay Replication server	Serve	r Configuration	System Log		Log
Switch to Ahsay™ Offsite Backup Server	Dat	te (YYYY-MM-D	DD): 2008-07-30 💌	Rows per page 50	•
U Introduction	No	Timestamo	Massana		
O Ahsay™ Replication Server (AhsayRPS)	1	09:04:00 AM	[info][www][System][Logon] System logged on successfully. IP=192.168.6.1 session=F9132D2ED0ED1F8674098403B57BB6DB	31	
multiple AhsayOBSs.	2	09:56:46 AM	[info][www][System][Logon] System logged on successfully. IP=192.168.6.1 session=0CFC8FD4D838DAC2CCB6FB4660BE4E0A	79	
	3	10:03:20 AM	[info][www][Logon] 'system' logon failed. IP='192.168.6.181'. Reason=Logon	Failed!	
Getting Started with AhsayRPS	4	10:03:24 AM	[info][www][System][Logon] System logged on successfully. IP=192.168.6.13 session=6DA65496FB423BA749C01DED8A7ABB45	31	
★ <u>Key Features</u>	5	10:15:06 AM	[info][www][System][Logon] System logged on successfully. IP=192.168.6.1 session=E9DCE71C2EDB8F545F622DC92EAEA0C1	31	
Documentations V	6	10:27:02 AM	[info][www][System][Logon] System logged on successfully. IP=192.168.6.1 session=5B5146A9350D4BC7AAD7C1CD011393B7	31	
System Management V	7	10:49:16 AM	[info][www][System][Logon] System logged on successfully. IP=192.168.6.1 session=10B4C52E493C602ADBEED11530B9C82A	79	
Contact us	8	11:16:27 AM	[info][www][System][Logon] System logged on successfully. IP=192.168.6.19 session=5CD842F8AB11BB488A0F099C2326C240	31	
	9	11:49:54 AM	session=C30F4C6A5F9B30D759B1BE5E2E8D9199	21	
	10	12:39:07 PM	[info][www][System][Logon] System logged on successfully. IP=192.168.6.18 session=9AD3454BE6106089946CA1EC2FF0FDAA	31	
	11	02:52:59 PM	[info][www][System][Logon] System logged on successfully. IP=192.168.6.14 session=03BB6D459047004DD44C2910E1DFBD25	31	
Edit [INSTALL_FOLDER] \ webapps \ ROOT \ IIb \ common js to customize your company logo and the					
names of softwares. After that, you can delete the content of "RenameProcedureRPS" to remove this line.	Your C	ompany Logo			

This section describes all settings under the [System Log] menu.

Кеу	Description
Date	The date when system log entries are recorded
Rows per page	Maximum number of rows showing in a page



5 Manage Receiver on AhsayRPS

This chapter describes how you can use pages under the [AhsayRPS Administration Console] -> [Manage Receiver] menu to configure receivers for AhsayRPS.

5.1 Add

To setup replication between AhsayOBS and AhsayRPS, the first step is to add a receiver to AhsayRPS using the [AhsayRPS Administration Console] -> [Manage Receiver] -> [Add] page. To create an AhsayRPS receiver, simply fill in the form below and press the [Add] button.

Abrown Peoplecition Server	Manage System M	1anage Receiver Administrator's Guide Select Land
Ansay Replication server	Add List	<u>عا</u>
Switch to Ahsay™ Offsite Backup Server	New Replication	n Receiver
Introduction	Login Name	:
Absay TM Replication Server (AbsayRPS)	Password	
rovides an offsite store for backed up data from	Fassword	•
unple AnsayObSs.	Alias	:
Getting Started with AhsayRPS	Home Directory	(:
Key Features	Listening Host	: 0.0.0.0 Port : 9444
Documentations T	Enable	: No 💌
System Management		Add Reset
<u>Contact us</u>	Key: Login Name	Login name to be authenticated by the replication server
	Password	Password to be authenticated by the replication server
	Alias	An alias of this replication account
	Home Directory	The directory where all replicated data are to be stored.
	Listening Host	Listening interface of replication server (e.g. 0.0.0.0 means listening to all available network interfaces, w.x.y.z means listening only to the w.x.y.z interface)
	Port	TCP Port number to be used by the replication server
	Enable	Enable replication services
t [INSTALL_FOLDER] \ webapps \ ROOT \ lib \ mmon.js to customize your company logo and the mes of softwares. After that, you can delete the ntent of "RenameProcedureRPS" to remove this b.		
	Your Company Logo	

This section describes all settings under the [Add] menu.

Кеу	Description
Login Name	Login name of an AhsayRPS receiver to create
Password	Password of an AhsayRPS receiver to create
Alias	Alias of an AhsayRPS receiver to create
Home Directory	Directory where an AhsayRPS receiver will store all its data
Listening Host	IP address where this AhsayRPS receiver will wait for requests from AhsayOBS
Port	TCP port where this AhsayRPS receiver will wait for requests from AhsayOBS
Enable	TCP port from which this AhsayRPS receiver will wait for requests from AhsayOBS



5.2 List

The [AhsayRPS Administration Console] -> [Manage Receiver] -> [List] page lists all receivers configured on AhsayRPS.

Ahsay™ Replication Server	Manaq	e System Manage I	Receiver			Administrato	r's Guide	Select Lang
	Add	List						<u>Lo</u>
Switch to Ahsay™ Offsite Backup Server	No.	Login Name	Listening Host	Enable	Use SSL	Compression		
Introduction	1	system	0.0.0.9444	Yes	Yes	Yes	Detail	Remove
Introduction	2	system2	0.0.0:9445	Yes	Yes	Yes	Detail	Remove
Ahsay [™] Replication Server (AhsayRPS) rovides an offsite store for backed up data from ultiple AhsayOBSs.								
Cetting Started with AhsayRPS								
System Management								
Contact us 🛛 🗸								
It [INSTALL_FOLDER] \ websapps \ ROOT \ lb \ mmon, is to customize your company logo and the mes of asthwares. After that, you can delete the ontent of "RenameProcedureRPS" to remove this e.								
	Your C	ompany Logo						

This section describes all settings under the [List] menu.

Кеу	Description
Login Name	Login name of an AhsayRPS receiver
Listening Host	Listening IP address and TCP port number of an AhsayRPS receiver
Enable	Enable/Disable AhsayRPS receiver
Use SSL	Whether to use SSL on an AhsayRPS receiver
Compression	Whether to use compression on an AhsayRPS receiver
Detail	Show the details of an AhsayRPS receiver
Remove	Remove an AhsayRPS receiver



5.3 Profile

The [AhsayRPS Administration Console] -> [Manage Receiver] -> [Profile] page shows the details of an AhsayRPS receiver.

Ahsay™ Replication Server	Add List Profile	File Explorer Replication Log	Administrator's Guide Select Land
Switch to Abagu'M Offaito Baglyun Sonyor			
Switch to Ansay - Offsite Backup Server	Enable Replica	tion	
ntroduction	Login Name	: system	
Ahsay™ Replication Server (AhsayRPS)	Password		
iple AhsayOBSs.	Alias	: demo	
etting Started with AbsavRPS	Home Directory	raid/data/module/obsr/system/obsr/rcvshome/system	
		User homes Replication stores*	
ey Features V		1. /obsr/user => /raid/data/module/obsr/system/obsr/r	cvshome/system/files/obs
ocumentations V ystem Management V		* (Optional) Storing data replicated from different Ahsay (i.e. folders) on AhsayRPS. After making changes to rep move all user home folders from the folder under the ol manually.	rOBS user homes in different replication stores lication store settings above, please remember to d setting to the folder under the new setting
ontact us 🗸 🗸	Listening Host	: 0.0.0.0 Port : 9444	
			Advanced Options
		Update Reset	
	Login Name	Login name to be authenticated by the replication server	
	Password	Password to be authenticated by the replication server	
	Alias	An alias of this replication account	
	Home Directory	The directory where all replicated data are to be stored.	
	Listening Host	Listening interface of replication server (e.g. 0.0.0.0 means list means listening only to the w.x.y.z interface)	ening to all available network interfaces, w.x.y.z
	Port	TCP Port number to be used by the replication server	

This section describes all settings under the [Profile] menu.

Кеу	Description
Enable Replication	Whether to enable/disable a receiver
Login Name	Login name of a receiver
Password	Password of a receiver
Alias	Alias of a receiver
Home Directory	Directory where all replicated data will be stored by a receiver
Listening Host	Listening IP address of a receiver
Port	Listening TCP port number of a receiver
Enable	Enable/Disable a receiver
Use SSL	Whether to use SSL on a receiver
Compression	Whether to use compression on a receiver
Traffic Limit	Throttled speed of a receiver. Set an all-time traffic limit by setting both [From]
	and [To] parameters to [Sun, 00:00].
Update	Update the configurations of a receiver
Reset	Reset all values to its original values



5.4 File Explorer

The [AhsayRPS Administration Console] -> [Manage Receiver] -> [File Explorer] page lists all receivers configured on AhsayRPS. It is currently not possible to restore replicated files from this page. As a workaround, you can restore files from AhsayRPS using the [Decrypt] tools available in AhsayOBM. Please refer to "How do I restore files from AhsayRPS?" for more information

Abanyou Replication Conver	Manage System Manage Receiver [system]	Administrator's Guide Select Lang
Thisdy- Replication server	Add List Profile File Explorer Replication Log	Lo
	2	
Switch to Ahsay™ Offsite Backup Server	Home > obsr	
Introduction	No. of Concession, Name	Circ Look Medified
	Name	Size Last Modified
O Ahsay [™] Replication Server (AhsayRPS)		
provides an offsite store for backed up data from		
interest with a second		
Getting Started with AhsavRPS V	La lava	
	System .	
🚖 Key Features 🛛 🔻	Lemp	
f Documentations	Loncas	
• Costinementation		
System Management V	webdoos	
Contrat up	WOLK .	
Connuctua		
EXPERIENCE IN FOLDERIS WAShannes (POOT) IN 1		
common is to customize your company logo and the		
names of softwares. After that, you can delete the		
content of "RenameProcedureRPS" to remove this		
ere.		
	Your Company Logo	

5.5 Replication Log

The [AhsayRPS Administration Console] -> [Manage Receiver] -> [Replication Log] page lists all logs recorded by this receiver.

Switch to Ahsay ^{TE} Offsite Backup Server	Add Lis	t Profile File I	ixplorer Replication Log
Switch to Ahsay ³⁶ Offsite Backup Server			
Switch to Ansay - Unsite backup server			
	Date	(YYYY, MM, DD)	2008-08-08 ×
introduction	Dute		401 401 402 403 404 405 406 407 408 400 500 NS
	_		33 I " HA HA HA HA WA WA HA HA HA HA PP
Ansay Reputation Server (AnsayRPS)	No.	Timestamp	Ressare
vides an offsite store for backed up data from	24/01	06:55:09 PM	[system][kecvHdir,PHode.M1H][2000/00/00/00/00/lkequestHandler.stop] Closing outputstream
upe Arisayvoas.	24702	06:55:09 PP1	[system][kecvndir.Phode.Phin][2008/08/08 16:55:00][kequestnandler.stop] Closing socket
	24703	06:55:09 PM	[system][Recvhoir.PMode.MIH][2000/00/08 18:55:00][Requesthandler.stop] Connection stopped.
setting Started with AhsayRPS V	24704	06:55:09 PM	[system][kecvnair.Phode.Prin][2000/06/06 10:55:00][kequestnandler.stop] MTH is Ended.
	24705	05:55:09 PM	Received 1k byte in 6 sec (216 byte/sec)
ev Features 🗸 🗸	24/06	00:56:07 PM	received yet. Sleeping
	24707	06:56:12 PM	[ReceiveHandler.run]accept socket. Remote client = 192.168.6.221:36840
ocumentations V	24708	06:56:12 PM	[ReceiveHandler.run]Wait for socket + ReconnectStatus: Resume Status: 0 IsReconnect: false
	24709	06:56:12 PM	[system][RecvHdlr.PMode.MTH][2008/08/08 18:56:12][RequestHandler.run] start running
vstem Management V	24710	06:56:12 PM	[doHandShake] opt.byCode=0x0
	24711	06:56:12 PM	[doHandShake] opt.byCode=0x10
ontact us V	24712	06:56:12 PM	[doHandShake] opt.byCode=0x11
	24713	06:56:12 PM	[doHandShake] opt.byCode=0xd
	24714	06:56:12 PM	Sender RPS Version: 5.5.0.0
	24715	06:56:12 PM	[doHandShake] opt.byCode=0x3
	24716	06:56:15 PM	[system][RecvHdir.PMode.MTH][2008/08/08 18:56:12][RequestHandler.stop] Stopping connection
	24717	06:56:15 PM	[system][RecvHdlr.PMode.MTH][2008/08/08 18:56:12][RequestHandler.stop] Closing inputstream
	24718	06:56:15 PM	[system][RecvHdlr.PMode.MTH][2008/08/08 18:56:12][RequestHandler.stop] Closing outputstream
	24719	06:56:15 PM	[system][RecvHdlr.PMode.MTH][2008/08/08 18:56:12][RequestHandler.stop] Closing socket
	24720	06:56:15 PM	[system][RecvHdlr.PMode.MTH][2008/08/08 18:56:12][RequestHandler.stop] Connection stopped.
	24721	06:56:15 PM	[system][RecvHdlr.PMode.MTH][2008/08/08 18:56:12][RequestHandler.stop] MTH is Ended.
	24722	06:56:15 PM	Received 46 byte in 2 sec (23 byte/sec)
	24723	06:57:07 PM	log file /raid/data/module/obsr/system/obsr/rcvshome/system/files/obsr/system/logfiles/log02d6.alf is not received vet. Sleeping
	24724	06:57:17 PM	[ReceiveHandler.run]accept socket. Remote client = 192.168.6.221:36841
	24725	06:57:17 PM	[ReceiveHandler.run]Wait for socket + ReconnectStatus: Resume Status: 0 IsReconnect: false
	24726	06:57:17 PM	[system][RecvHdir.PMode.MTH][2008/08/08 18:57:17][RequestHandler.run] start running
	24727	06:57:18 PM	[doHandShake] opt.byCode=0x0
	24728	06:57:18 PM	[doHandShake] opt.byCode=0x10
	24729	06:57:18 PM	[doHandShake] opt.byCode=0x11
	24730	06:57:18 PM	[doHandShake] opt.byCode=0xd
	24731	06:57:18 PM	Sender RPS Version: 5.5.0.0
	24732	06:57:18 PM	[doHandShake] opt.byCode=0x3
	24733	06:57:19 PM	Receiving '/raid/data/module/obsr/system/obsr/rcvshome/system/files/obsr/system/logfiles/log02d6.alf
	24734	06:57:19 PM	Expected next log sequence is 2d7
INSTALL FOLDERLY websers \ ROOT \ IS 1	24735	06:57:19 PM	Start redo log file /raid/data/module/obsr/system/obsr/rcvshome/system/files/obsr/system/logfiles/log02d6.alf
phone is to customize your company loss and the	24736	06:57:19 PM	redo manager is created.
months to consumize your company logo and the	24737	06:57:19 PM	Redoing log file /raid/data/module/obsr/system/obsr/rcvshome/system/files/obsr/system/logfiles/log02d6.a
tent of "RenameProcedureRPS" to remove this	24738	06:57:19 PM	Finish redo log file/raid/data/module/obsr/svstem/obsr/rcvshome/svstem/files/obsr/svstem/loofiles/loo02d6.alf

This section describes all settings under the [Replication Log] menu.

Кеу	Description
Date	The date when log entries are recorded
Rows per page	Maximum number of rows showing in a page



6 Other Configuration

6.1 Starting up Replication server as AhsayOBS

Assumptions:

- iii. You want to kick off AhsayRPS as AhsayOBS
- iv. The [Home Directory] of the receiver of AhsayOBS configured on AhsayRPS is [D:\RepHome]
- v. The [User Homes] of AhsayOBS are [E:\Users] and [F:\Users] on AhsayOBS
- vi. The [System Home] of AhsayOBS is [E:\System] on AhsayOBS

Please do this on AhsayRPS:

- i. Copy "D:\RepHome\files\C%3A\Program Files\Ahsay Offsite Backup Server" to "C:\Program Files\Ahsay Offsite Backup Server"
- ii. Copy "D:\RepHome\files\E%3A\Users" to "E:\Users", "D:\RepHome\files\F%3A\Users" to "F:\Users" and "D:\RepHome\files\E%3A\System" to "E:\System"

If the partitions for E:\ or F:\ are not available, just copy these directories to any locations you want but please make sure to open "C:\Program Files\Ahsay Offsite Backup Server\conf\obs.xml" and modify the entries for [user-home] and [system-home] with the correct paths)

- iii. Run "C:\Program Files\Ahsay Offsite Backup Server\bin\install-service.bat" to install AhsayOBS as windows services
- iv. Shutdown the [Control Panel] -> [Administrative Tools] -> [Services] -> [Ahsay Replication Server] service
- v. Startup the [Control Panel] -> [Administrative Tools] -> [Services] -> [Ahsay Offsite Backup Server] service

Please take a look at "C:\Program Files\Ahsay Offsite Backup Server\logs\obs*.log" and "C:\Program Files\Ahsay Offsite Backup Server\logs\cat*.log" if you run into any problems.



7 Frequently Asked Questions

The chapter contains a list of frequently asked questions on AhsayRPS.

7.1 How do I restore files from AhsayRPS?

Since backup files replicated from AhsayOBS to AhsayRPS are identical, you can use the [Decrypt Files Wizard] tool available in AhsayOBM to restore backup files from AhsayRPS. The instructions to do this are:

- i. Install AhsayOBM onto the computer running AhsayRPS
- ii. Open [AhsayOBM] from the system tray and logon to any AhsayOBS server available (Make sure that you have set the [Control Panel] -> [Administrative Tools] -> [Services] -> [Online Backup Scheduler] service to disable. Otherwise, scheduled backup job configured under this backup account will run on AhsayRPS, possibly causing backup data deletion)
- iii. Choose [Tools] -> [Decrypt File Wizard]
- iv. Use the [Browse] button to select the "files" directory which contains all backup files stored under a backup account (i.e. browse to the replicated user home, go down to the "files" directory, go further down to the [User Home] directory as specified on AhsayOBS, find the user account with the backup files you want to restore and finally select the "files" directory)
- v. Select the [Backup Set] (shown as numeric ID) containing the backup files you want to restore
- vi. Select the files that you want to restore and press the [Next] button
- vii. Set the [Decrypt files to] section, enter a valid decrypting key and press the [Start] button

7.2 Is it possible to assign user home from AhsayOBS to store under different partition on AhsayRPS?

By default, all backup files replicated from AhsayOBS will be replicated to AhsayRPS under a single directory. If you have 4 user homes each with 500GB of data on AhsayOBS, you need to have up to 2TB of free space on AhsayRPS under a single directory to store all replicated data. Currently, it is not possible to have replicated data split among different directories or different partitions.



8 Appendixes

8.1 Further Information

If you need any additional information, please submit your question to us using our <u>Helpdesk Ticketing System</u>.