RAM mode and publishing

Pfaffhausen, 20 June 2012: We are pleased to present the ArchivistaBox 2012/VII. The new release contains a new RAM mode, self-supporting archives can be created directly in the WebClient, and there are also many other minor enhancements. We would like to briefly introduce the new features below. We will also give you step by step instructions on how to use the ArchivistaDMS to create a self-supporting archive within minutes, which can also be installed solely in the RAM.



New functions in the

2012/VII version

Scripts for a cluster in RAM are also now available, as well as for the conventional hard disk installation (see /home/cvs/archivista/jobs/scripts.tgz). The hard drive will now work with UUID numbers. However, you will be able to continue using the old numbers with 'nouuid'.

With the start option (first screen!) "ram ramonly," the ArchivistaBox can now be run exclusively in RAM. In contrast to the RAM mode, where the data partition is on a hard disk, with "ram ramonly" the entire system is run exclusively in RAM. Moreover, thanks to better memory management, the RAM requirement has been significantly reduced: 1.5 GB for ArchivistaVM, 3.0 GB for ArchivistaDMS and 4.5 GB for ArchivistaDesktop (compared with the previous requirement of 2, 4 or 8 GB, respectively).

The start options "nomod.xxx" or 'allmod' can be used to avoid running certain kernel modules at startup or to negate them again later (if they are enabled). This option has been created for the ArchivistaBox installer, because some netbooks had a problem with the kernel module "atl1c," which resulted in the ArchivistaBox not starting in the RAM mode without the network cable being connected (it simply hung in 70 to 80 percent of cases). "Nomod atl1c" can be used to disable this "troublemaker" in its tracks.

A script can now be called whenever a document is updated in WebClient. This allows user-specific changes to be carried out. You can find an example script called archivista.pl under/home/cvs/archivista/jobs. This file must be copied with the name of the database to be used added after /home/data/archivista/cust/autofields in order to enable the functionality. Please note, the script should be adapted to your own requirements; it can also be integrated in WebAdmin for "jobs administration." In WebConfig, it is now possible to set up an RSYNC data backup. And this month we have again fixed a lot of bugs (e.g. password in WebConfig). Further, the publishing of self-supporting archives is now possible directly in a WebClient.

Publishing self-supporting archives with ArchivistaDMS

Introductory note: the following instructions relate to ArchivistaDMS 2012/VII. Users who are interested in ArchivistaVM should continue reading as we will show how easy it is to set up ArchivistaBox in RAM.



Starting point for self-

supporting archives

The term "self-supporting archive" means data carriers that contain an archive and the necessary software. In other words, the archive "carries" the software along. In 2003, we produced a solution that could be used to create a database with MySQL and an Apache instance in Windows. Unfortunately, due to the firewall introduced by Windows XP, the archive disk ran only when the Windows Firewall settings were changed (when the firewall was de facto disabled).

For this reason, from 2006, the self-supporting archive created by the ArchivistaBox was created in such a manner as to include the whole ArchivistaBox plus the data. In this way, it was relatively easy to create self-supporting archives. The 32-bit solution at the time had the disadvantage that it ran in a LiveCD mode, which caused larger published archives to be rather slow. In order to create a self-supporting archive, a program had to be started on the ArchivistaDesktop. The created ISO disk then had to be copied to another computer to burn the CD/DVD. The self-supporting archive could only be tested at the end of this procedure. Self-supporting archives can now be created directly in the WebClient. The following instructions will show you how easily self-supporting archives can be created and immediately tested.

Step 1: Installing ArchivistaDMS



ArchivistaBox 64Bit — in 100 seconds to a ready to use server infrastructure



First, ArchivistaBox DMS must be installed or started. You have the option to select "ram ramonly" on the first screen; this eliminates the need for an installation. The advantage: the entire example can now be executed in RAM. Disadvantage: if you do not have 8 GB RAM available, the command "Create CD" (ISO file) cannot be run later directly in RAM. Otherwise (i.e. without the two options "ram ramonly") you can install ArchivistaBox normally.

Step 2: Enabling file export in WebAdmin

After the installation, publishing must first be enabled in WebAdmin.

 > User > Fields and masks > Archive administration > Scanning > Barcodes > Form recognition > OCR definitions > SQL definitions > Export documents > Mail archiving > Administrate jobs > Database creation > Logout 	Export documents (Authorized users User profile Number of records (maximum) Deactivate export	@ archivista Admin Admin • .

Those users who have the permission to publish archives must be entered in "Export of files" (here "Admin"). It is important to note that users entered here can duplicate the archives at the push of a button and if this is used in an uncontrolled fashion any ArchivistaBox will run out of space relatively quickly. For these reasons, users must be explicitly enabled.

Important: In order to create the CD (ISO file) later, the ISO file from ArchivistaDMS must be available for the installed instance under

"/var/lib/vz/template/iso/archivista_cd1.iso." If the ArchivistaDMS CD is inserted in the first CD-drive, it is automatically copied to /var/lib/vz/template/iso/archivista_cd1.iso. In other cases (e.g. using a USB stick for installation) it should be uploaded using ArchivistaVM, WinSCP or scp.

Step 3: Uploading documents in WebClient

Now **switch to the WebClient,** and upload several documents to follow our example. In our example, we will use the script "publish.sh" directly on the ArchivistaBox.

POZX	•••••		• 2 • ?		Browse	Black/White	OCR: Multi 🗾 Ok
Document Pages	Date /	🗤 🔹 😨 File Upload				FirmenNum	mer FirmenName
2 8	08/11/2005 N	0	lashtan			1	Meier
1 10	08/11/2005 N		esktop			2	Petermann AG
		<u>O</u> rte	Name	▼ Größe	Letzte Änderung	–	
		Suchen	network.sh	1,6 KB	22.04.2011		
		Suletzt verwendet	📄 nologinext.sh	701 Bytes	18.11.2010		
		🕞 archivista	🗋 ocrNow.sh	823 Bytes	16.05.2008		
		Desktop	🗋 onlineupdate.sh	2,4 KB	20.11.2012		
		Deteington	🗋 passwordreset.sh	983 Bytes	05.05.2008		
		Dateisystem	D PATCH.sh	330 Bytes	06.09.2007		
			🗋 perl-var.in	255 Bytes	25.04.2008		
View Sear	h Replace		📄 processlocal.sh	697 Bytes	23.05.2008		
			📄 publish.sh	1,4 KB	19.06.2012		and the second
Document	2 Pages 8 Fold	le	¹ publish2.jpg	59,2 KB	20:34	pox-system	2 mar 1
Owner	-		D publish2.png	225,2 KB	20:34	NEXE BOXEN	
Title	Prosnekt Box-Syste	n	D purebasic-demo_x64.tar.gz	30,3 MB	Gestern um 08:11		and the second s
	Troopola Box Oyua		🗋 rdesktop.sh	899 Bytes	03.11.2009		
Rubrik	Archivista	-11	🗋 reburn.sh	222 Bytes	26.10.2012		Sec. Sec.
Rubrik1	DMS		🗋 reburn-old.sh	4,2 KB	26.10.2012	and the second s	
Rubrik2			replace.png	18,3 KB	19:50	and the second second	
Land	Caburaia	- I	🗋 rescan-scsi-bus.sh	5.8 KB	06.09.2007	-	
Land	Schweiz	🖬 🚽 Hinzufügen 🛛 🚥 Entferner	1		All Files	·	
Region	Zürich			00	1		
FirmenNummer	1			<u>Abbreck</u>	nen 📙 Ö <u>f</u> fnen		
FirmenName	Meier	▼ ≤ <u>X</u> ≥			•		niii 🍲

Database: archivista, Recordset: 1/2, Document: 2, Page: 1/8

Any other documents (including MS Office files) may also be placed in the archive instead of this file. It should be borne in mind that a maximum of 4 GB of data can be published per archive because otherwise a new DVD cannot be created.

Step 4: Selecting the documents for publishing

Document Pages Date Archive Title Rubrik Land Region FimenNum FimenNam Dokumente Updatfie Doptemplate Doptempl	₽□₹₩	•• • •	4 >	N • • @ @	?					Choose action Choose action	• Ok
3 1 12/16/2012 No Copy template Delete	Document Page	s Date	Archiv∈ Title	Rubrik	Land	Region	FirmenNum	FirmenNam	Dokumenter	Upload file	
View Search Replace Edit	3 1	12/16/2012	N0							Copy template	b
View Search Replace Edit Scan [A4 (1 Bit - Bw)] Scan [A4 (1 Bit - Bw)] Scan [A4 (2 Bit - Color)] Combine documents Document 3 Pages 1 Folder 1 Date 12/16/2012 Archived No Image: Color (Color (Color)) Combine documents Owner • • • • • • Title • </th <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th>Delete</th> <th></th>										Delete	
Experiment Experiment <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th>Create PDF file</th> <th></th>										Create PDF file	
Scar [44 (15ii - 5vi)] View Sear [44 (25ii - 6vi)] Document 3 Pages 1 Folder 1 Date [2/16/2012] Archived No Ombine documents Owner • Title • Rubrik • Rubrik • • • Rubrik • • • FirmenNummer •< • • FirmenNummer •< • • FirmenNummer •< • • FirmenNummer •< •< • FirmenNummer •< •< • Fractopy values, F9=Paste values Save										Export documents	
View Search Replace Edit Scan [A4 (24 Bt - Color)] Combine documents Document 3 Pages 1 Folder 1 Date 12/16/2012 Archived No Combine documents Owner • • • • • • • Title •										Scan [A4 (1 Bit - BVV)]	
View Search Replace Edit Combine documents Document 3 Pages 1 Folder 1 Date 2/16/2012 Archived No Combine documents Owner •										Scan [A4 (8 Bit - Gray)]	
Document 3 Pages 1 Folder 1 Date 12/16/2012 Archived No Image: Compare the second	View Sear	ch Replace	Edit							Combine documents	
Rubriki • < & &	Document Owner Title	3 Pages 1	Folder 1 Date 12/	16/2012 Archived No					 A tachara T to introduce a basis a tachara and tachara a tachara and tachara a tachara and tachara a tachara and tachara a tachara a tachara b tachara	1999 - 19	
Rubriki < <	Rubrik								States provide their states	saka "ALTIS", IETA", Dellanda" samilar Tada ada provinsi "Anato" Off" Louise	
Rubrik2 Save Save 	Rubrik1			$\mathbf{x} \leq \mathbf{x} \geq \mathbf{x}$					pr. in makes, f and f 2 day a labing a sale 1° (1) for 1 day of a Marson in 1000.	versiter Roag prozente oblave tra C. 1. 1. 2010 1. 1. 2. THE, MILE TITE - mightio-	
Land < ≤ ≥ Region < ≤ ≥ FirmenNummer < ≤ ≥ FirmenName < ≤ ≥ Dokumententyp < ≤ ≥	Rubrik2								4 1		
Region < ≤ > FirmenNummer < ≤ > FirmenNummer < ≤ > Dokumententyp < ≤ >	Land			$\bullet \leq \underline{X} \geq$					A Sile and an	No. 11-11-14-14-14-14-14-14	
FirmenNummer • ≤ X > FirmenNummer • ≤ X > Dokumententyp • ≤ X > Fr=Copy values, F9=Paste values Save	Region			$\bullet \leq \underline{\mathbf{x}} \geq$					10000000		
FirmenName < ≤ ≥	FirmenNummer								Marketon and States	connect comparison fully the series in "should be and" Quint constraint and contrained for the balance of the series of the seri	
Dokumententyp ▼ ≤ X ≥ F7=Copy values, F9=Paste values Save	FirmenName								P. 191 - 41 5 1, 190 P. 191 - 41 5 1, 190 Milling Complex Milling Complex	ofernet Linux (company in p) and at De TTY - may not with Lattice a	
F7=Copy values, F9=Paste values Save	Dokumententyp										
		F7=Copy values	s, F9=Paste values	Save							

Before publishing can be started, the **required documents must be selected using the "Search" function.** Next, go to **"Edit"** and select **"Export documents".**

Step 5: Exporting files in WebClient

[Define databa	se name:
archi	vpub	
	Cancel	ОК

Now, enter the name of the new database (in this case, archivpub) to export the current selection to this database.

In order to automatically create an ArchivistaBox CD (ISO file) after you have exported the selection to the required database, confirm the following query with "OK."

Step 6: Testing the published ArchivistaVM archive

Now **go to ArchivistaVM** (it is included with every ArchivistaBox). Just as a quick reminder, log out of the WebClient, then click on "Home" and login to ArchivistaVM using "root" and "archivista."

st	Creat	te	Migrate				
Configurati	on						
Type:		Fully virtualized (KVM)		VMID:	106		
Installation Media:		archivist	a_archivpub.iso	-	Cluster Node:	avbox251 (192.168.2.251)	100
Name:		publishtest		Start at boot:			
Disk space	(GB):	32			Disk type:	IDE	100
Cache: writ		writebac	k	•	Format:	qcow2	-
Memory (M	IB):	4092			CPUs (Cores/Socket):	1	_
Guest Type:		Linux 3.x	6	•	Sockets/Board:	1	
Network							
Bridge: vmbr0 🗾		Network Card:	rtl8139				

The published CD can now be tested in a virtualised environment. For this purpose, a virtualised instance must be set up in ArchivistaVM. Select the created CD with the name "archivista_archivpub.iso" (or the previously used name) under "Installation media." Furthermore, at least 4 GB memory must be available in RAM mode. To be more exact, there needs to be 3 GB available in the RAM mode plus roughly the size of the created ISO file.

Important: if the ISO file does not exist, you must check "view system files" in WebConfig to see why the ISO file has not (yet) been created. In our example, it takes 20 to 30 seconds to create the ISO file. In the case of larger archives, this should not exceed 1 to 2 minutes.

Once the virtualised instance has been created, the CD can be started. The published ArchivistaBox created starts directly with 'ram ramonly', i.e. the ArchivistaBox will be started and set up in RAM.



Please note: if the published archive cannot be started in RAM mode, a normal installation can be performed on the first screen using the "linux" option.

The ISO file created can then be burned to a CD/DVD. If you want to do this directly from the ArchivistaBox, a terminal window must first be opened on the ArchivistaBox desktop (ALT-F7). Subsequently, use the "su" command to change to the root user. The command "cdrecord -scanbus" can be used to search for a burner. Next, use "cdrecord /var/lib/vz/template/iso/archivista_archivpub.iso dev=1,0,0 speed=4 -v" to burn the CD/DVD directly. It is important to specify the correct device number. The number found with "cdrecord -scanbus" (e.g. dev=7,0,0) should be entered instead of dev=1,0,0.

Conclusion: with ArchivistaDMS 2012/VII, self-supporting archives can be created within minutes directly in the WebClient and tested in a virtualised environment directly on the same machine. The above example can be run through in the RAM, if you have 4 GB (or better, 8 GB) RAM available.