

En esta ocasión analizamos un Software de Backup para XenServer realmente muy interesantes, todo ello ha sido debido a un post que hemos recibido en el Foro (puedes acceder a los comentarios [pulsando aquí](#)), de algunas herramientas de este tipo, este procedimiento realiza una breve mirada a Alike de Quorumsoft, una herramienta a nuestro entender muy interesante y con ciertas funcionalidades muy a tener en cuenta.

Alike es un software de Backup para plataforma XenServer. En este breve artículo vamos a ver algunas de las funcionalidades de este software, sencillo y fácil de utilizar. Alike permite deduplicación y compresión, backups de manera fácil mediante un gestor de tareas, retención de larga duración de históricos, backups seguros con encriptación y recuperación rápida y segura de los backups.

Los requerimientos que vamos a necesitar son los siguientes:

- Windows Server 2003
- Windows Server 2008
- Windows 2000 (no testado, pero probablemente funciona)
- Windows XP
- Windows Vista

Características

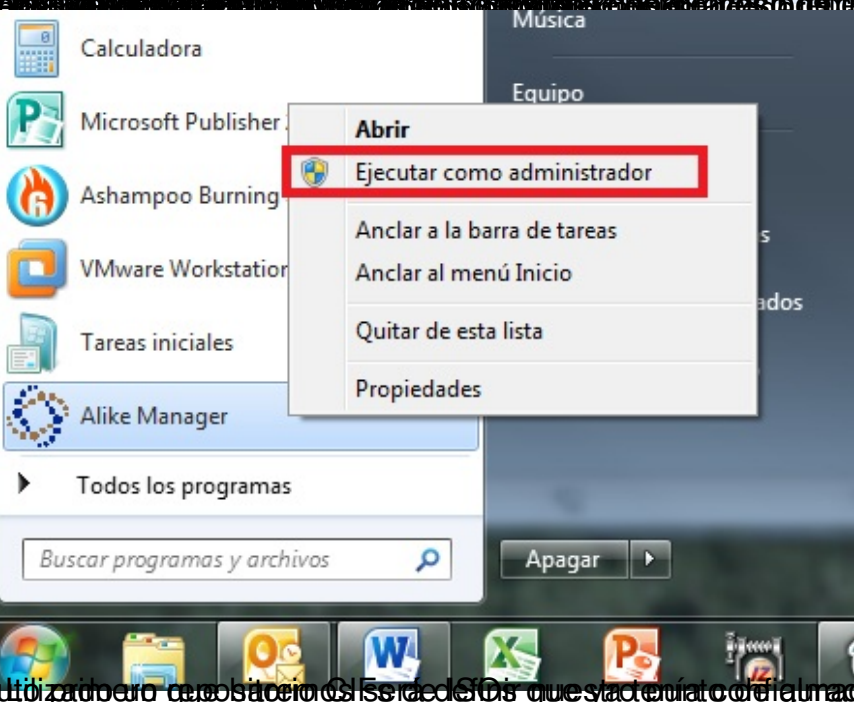
Primeras impresiones: QuorumSoft Alike v135 - Backup para XenServer

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Feature	Description
Data Deduplication	Performs block-level data deduplication across all VMs backed up
Friendly UI	This easy-to-use User Interface will get you backing up quickly
XenServer Integration	Leverages XenServer snapshots to capture guest VM state. XenServer 5.5 or later is required
Pool Support	Is pool-aware and can back up guests deployed to a XenServer storage pool
Quiesce Support	Quiesced snapshots are supported in XenServer 5.5
Supported Storage Repositories (SRs)	Alike Supports any SR in XenServer 5.5
Point-in-time restore	Versions each snapshot that is backed up
Syslog integration	Logging can be sent to a syslog server email/paging notifications
Flexible Scheduling	Jobs can be scheduled daily, weekly, or monthly; may be configured for multiple runs per day
64-bit Support	Alike can run on 64-bit Windows, can back up any guest OS, and can also connect to a XenServer 5.5 or later
Backup Storage Support	CIFS/ISCSI/Local Disk
Automated Storage Coalesce	Alike can fully automate and schedule Citrix's Coalesce tool, dramatically simplifying the process

Ediciones Disponibles	Alike Free	Alike
Maximum Number of Protected XenServer Hosts	1	One Per License
Maximum Supported Guest VMs per XenServer Host	Unlimited	Unlimited
Maximum Archived Versions of Each Guest VM	3	Unlimited
Maximum Number of Scheduled Jobs	3	Unlimited
Price	FREE	\$1200/XenServer Host

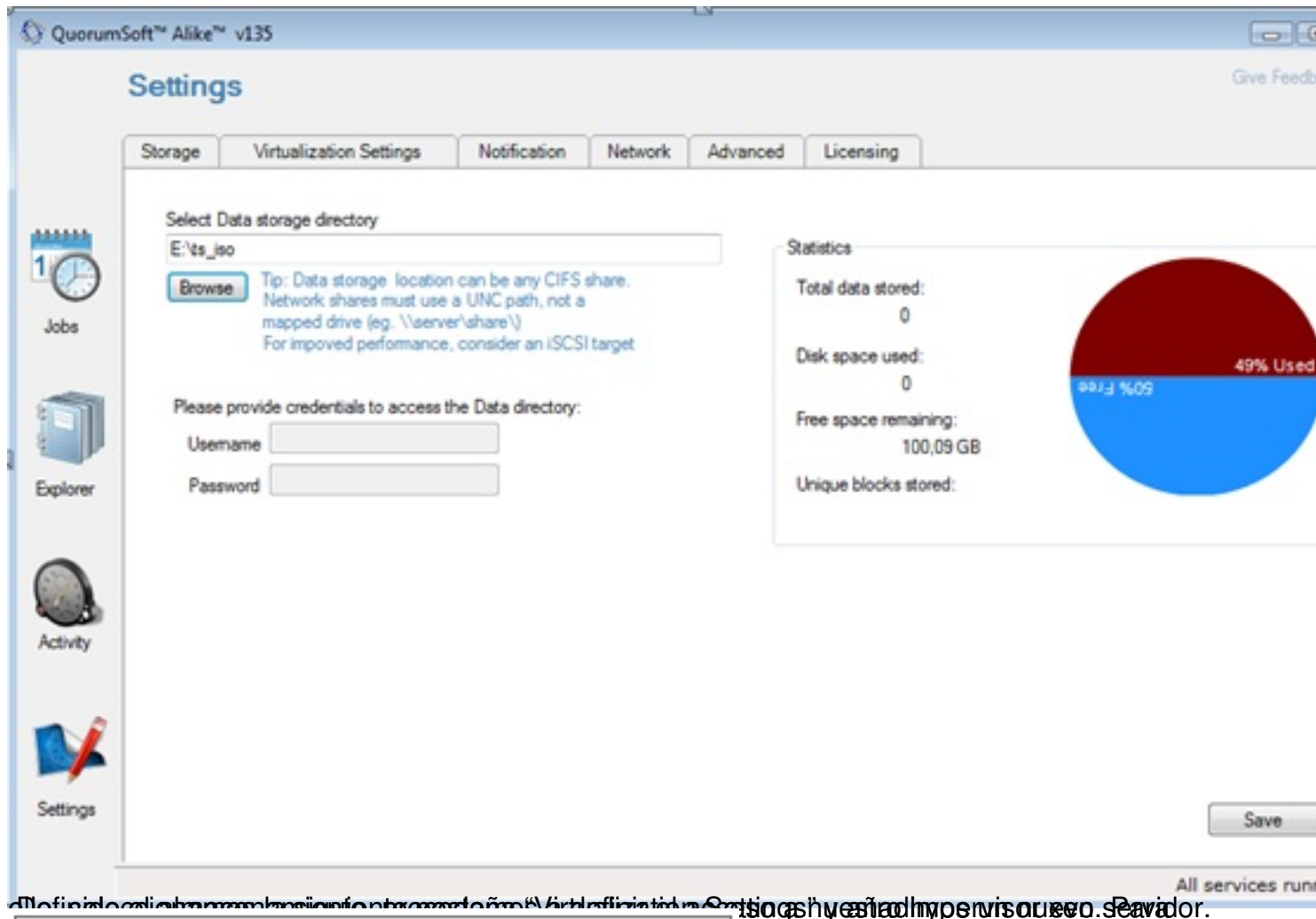


utilizando reposición de discos que esta en el original. En mi caso, he

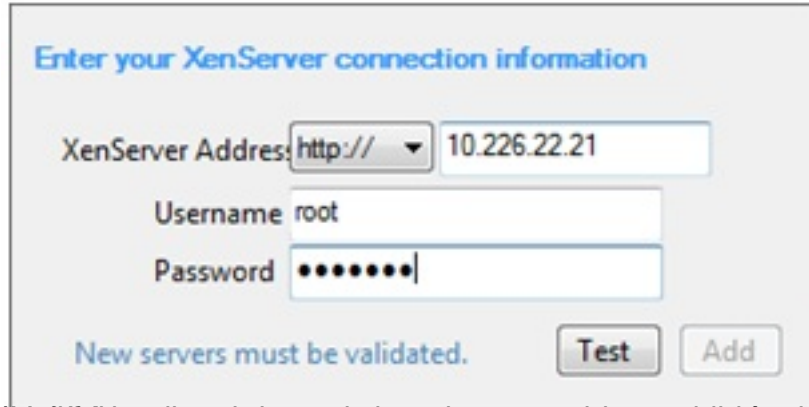
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Definición de la conexión al servidor XenServer. Se define la URL de conexión al servidor XenServer.



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QuorumSoft™ Alike™ v135

Settings

Storage Virtualization Settings Notification Network Advanced Licensing

Xen Servers

Alike Licenses remaining: 0 / 1

Server	Username	Password
10.226.22.21	root	*****

Server Info

Server Name: 10.226.22.21

Xen Version: XenServer 5.5.0, 25727p (Xen 3.3.1)

CPU: 4x 1995 GHz -Intel(R) Xeon(R) CPU E5335 @ 2.00GHz

Memory: 10,12 GB / 16 GB

Guest Name	Total Size
ARAGORN	8 GB
BILBO	8 GB
FRODO	32 GB
GANDALF	8 GB
GIMLI	23 GB
GOLLUM	9.16 GB
LEGOLAS	8 GB
NAZGHUL	8 GB
PIPIN	20 GB
SARUMAN	10 GB

Save

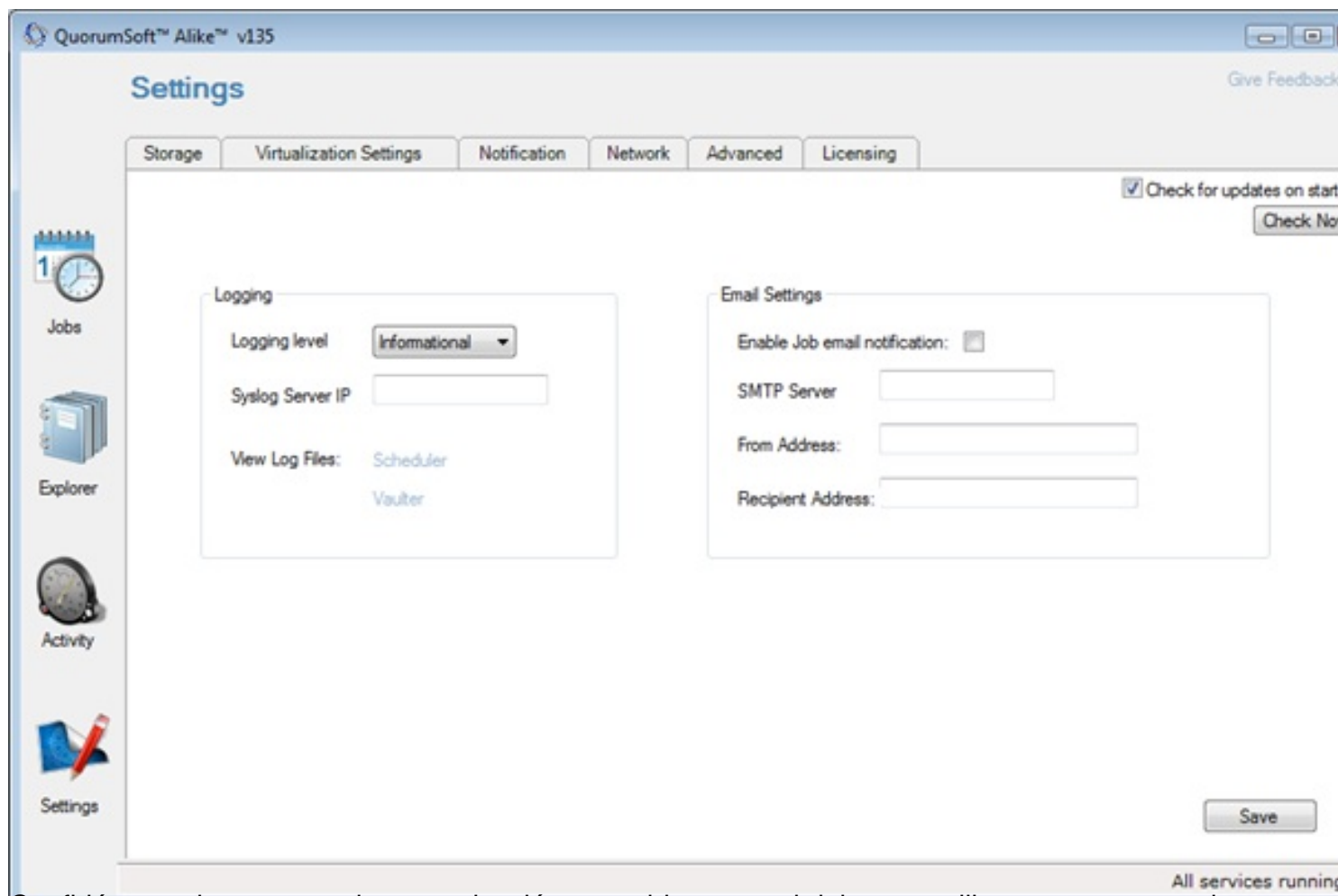
All services running

En la pestaña "Notificación" se vincula el Systemd y se configura el envío de notificaciones al navegador de escritorio de Systemd.

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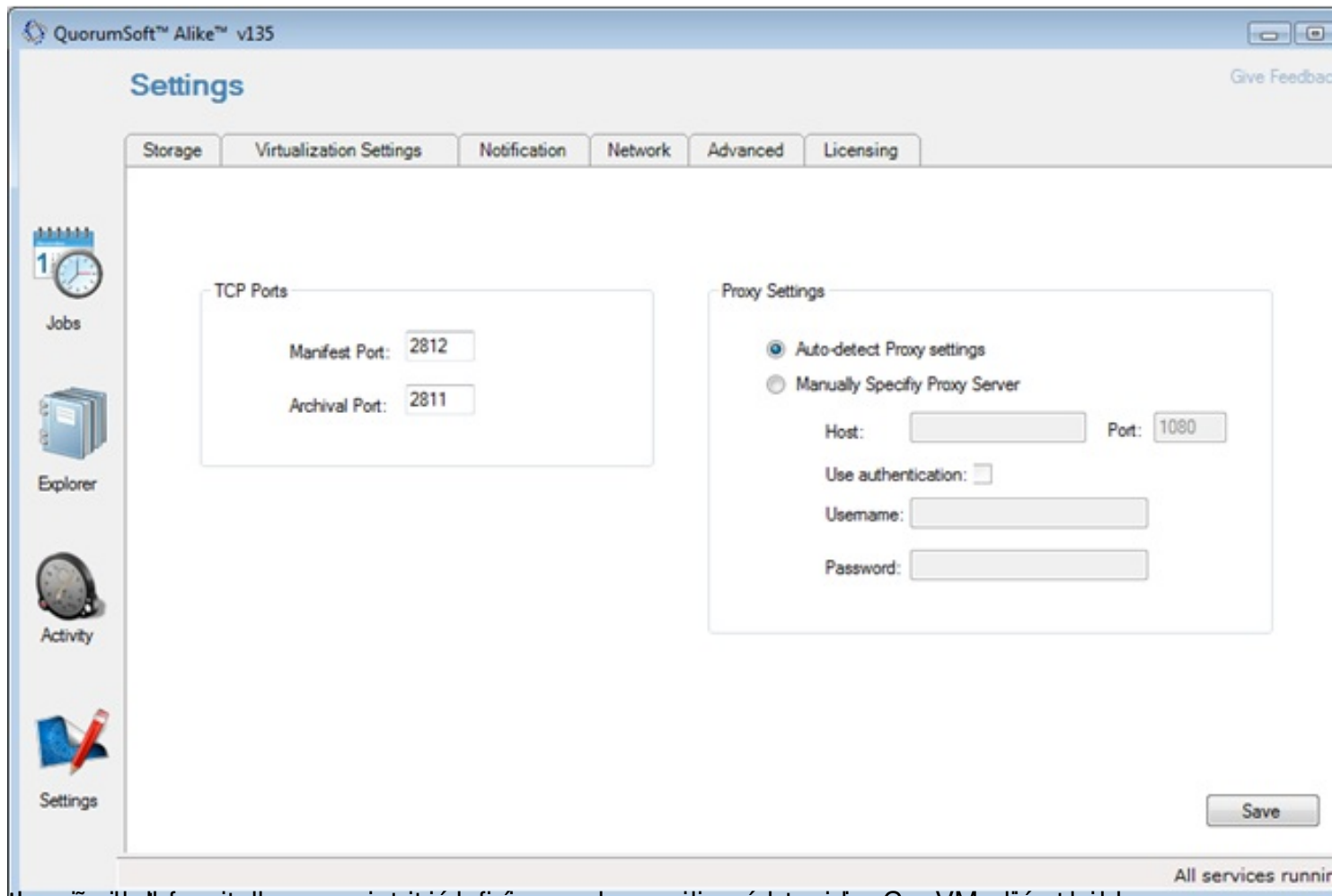


Configuramos los puertos de comunicación y establecemos si debemos utilizar un proxy para la

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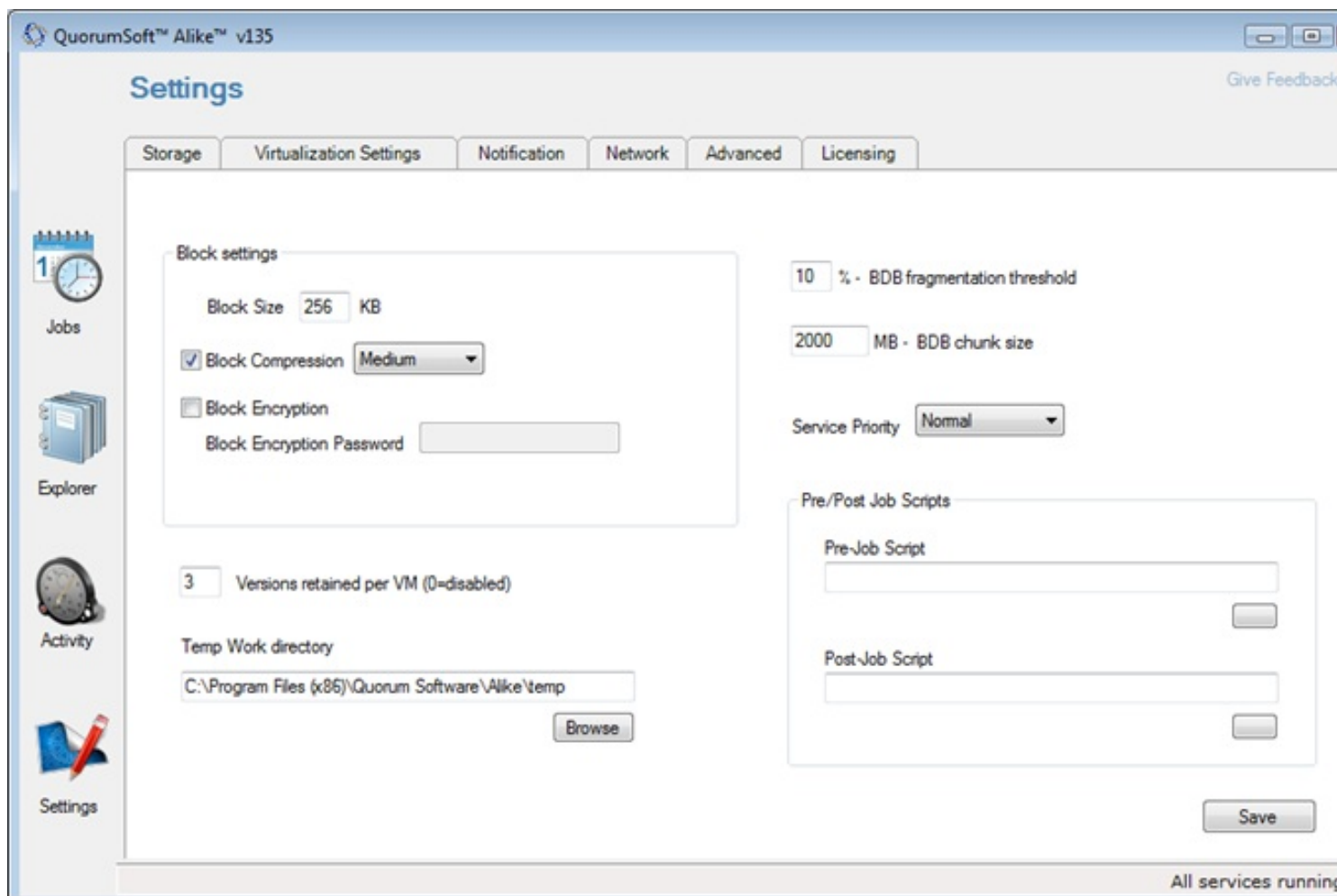


también de forma manual, es posible definir un número de copias a realizar y la copia completa o por bloques, también de forma manual, es posible definir un número de copias a realizar y la copia completa o por bloques,

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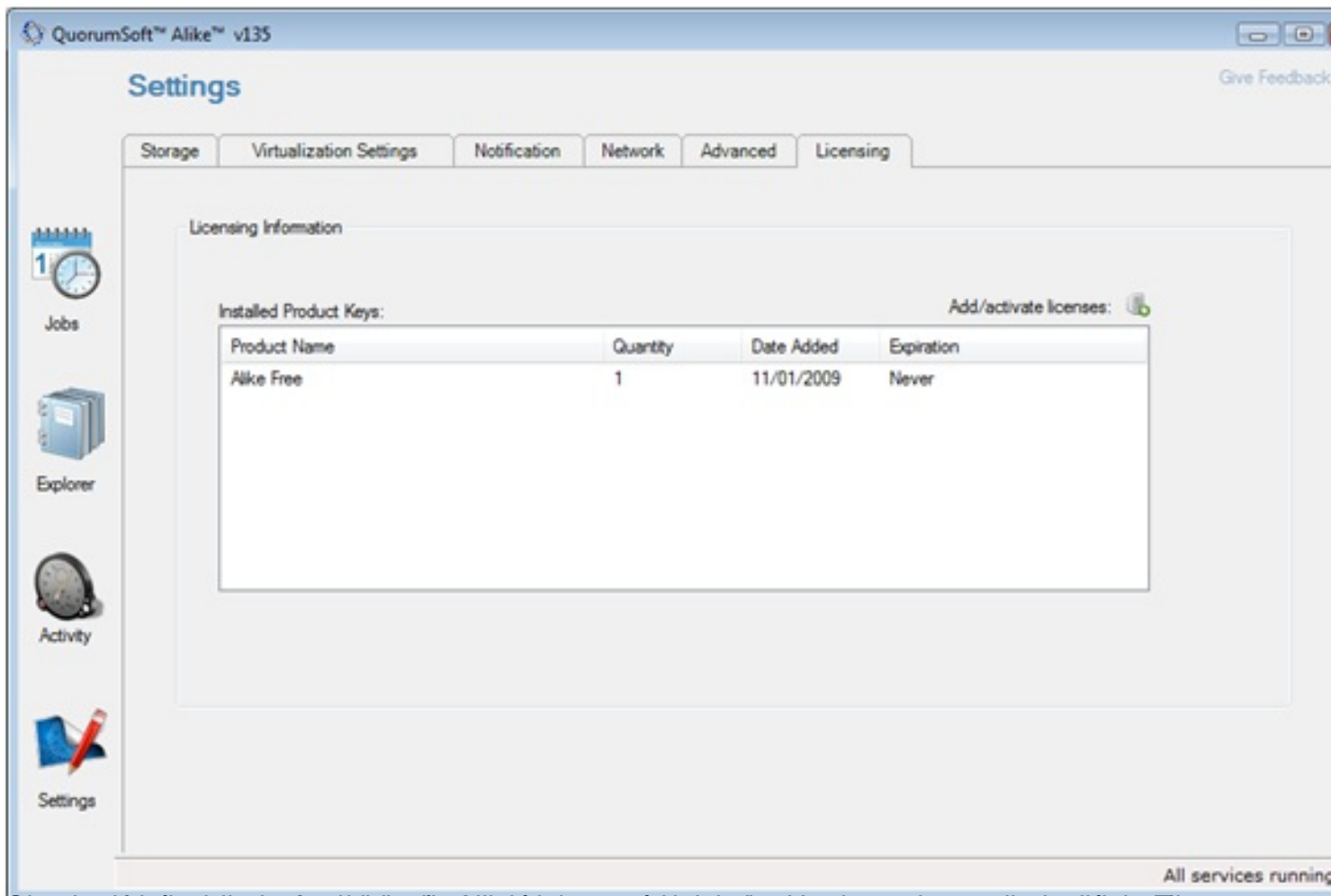


Y como las Bde de versiones se crean automáticamente, de él se puede (en los casos) con las utilidades, son lo que

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[illegible]

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The screenshot shows the 'Alike Virtual Machine Backup Wizard' window, specifically Step 1: Job Type. The wizard has five steps: Step 1. Job Type (selected), Step 2. Schedule, Step 3. Source, Step 4. Options, and Step 5. Finish. Below the step indicators, there is a section titled 'Please choose a job type:' with four radio button options:

- Backup** (selected): Perform Image or file level backups to the deduplicated data store.
- Restore**: Restore VMs to the filesystem or directly to your XenServer.
- Alike Storage Optimization**: Vacuums and tidies Alike's deduplicated data store.
- Leaf Coalesce**: Reclaims space on XenServer storage repositories.

At the bottom right of the wizard, there are two buttons: 'Next >>' and 'Cancel'.

Seleccionamos el tipo de Backup, se trata más de programación de Backup que de creación de Backup, y aumento del espacio


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Alike Virtual Machine Backup Wizard

Step 1. Job Type **Step 2.** Schedule **Step 3.** Source **Step 4.** Options **Step 5.** Finish

 **Define a new Job Schedule**

Name:

Occurs: at

Days:

<input checked="" type="checkbox"/> Monday	<input type="checkbox"/> Saturday
<input checked="" type="checkbox"/> Tuesday	<input type="checkbox"/> Sunday
<input checked="" type="checkbox"/> Wednesday	
<input checked="" type="checkbox"/> Thursday	
<input checked="" type="checkbox"/> Friday	

☐ More than once per occurrence

<< Previous Next >> Cancel

QuorumSoft Alike v135 - Backup para XenServer

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Alike Virtual Machine Backup Wizard

Step 1. Job Type Step 2. Schedule **Step 3. Source** Step 4. Options Step 5. Finish

Select source VMs

Select source type:

Choose Servers to Back Up:

- ☒ 10.226.22.21
 - ☐ BILBO
 - ☐ FRODO
 - ☐ GIMLI
 - ☐ GOLLUM
 - ☐ LEGOLAS
 - ☐ NAZGHUL
 - ☐ PIPIN
 - ☐ SARIIMAN

ARAGORN
GANDALF

Optimización de almacenamiento: los resultados se añaden al job de los procesos adicionales de optimización y se agregan a los resultados de la ejecución.

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The screenshot shows the 'Alike Virtual Machine Backup Wizard' window. At the top, there is a progress bar with five steps: Step 1. Job Type, Step 2. Schedule, Step 3. Source, Step 4. Options (which is the current step and highlighted in blue), and Step 5. Finish. Below the progress bar, there is a tab labeled 'Image Level Backup'. The main area of the wizard is empty, with the text 'There are no additional options for this job type.' centered. At the bottom, there is a section titled 'Select post Job options:' which contains two sub-sections: 'Leaf Coalesce Options' with a checkbox 'Coalesce All Guests After Job', and 'Alike Storage Options' with a checkbox 'Optimize Alike Data Store After Job'. At the bottom right, there are three buttons: '<< Previous', 'Next >>', and 'Cancel'.

Al hacer clic en finalizar nos mostrará un resumen de lo que se realizará y el espacio necesario para el backup.

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Alike Virtual Machine Backup Wizard


Step 1.
Job Type

Step 2.
Schedule

Step 3.
Source

Step 4.
Options

Step 5.
Finish

 **Summary for Backup Schedule: Backup_CTXDOM**

The following servers will be backed up:

ARAGORN, GANDALF

on

Monday, Tuesday, Wednesday, Thursday, Friday at 3:00

Total Job Size: 16 GB

<< Previous

Finish

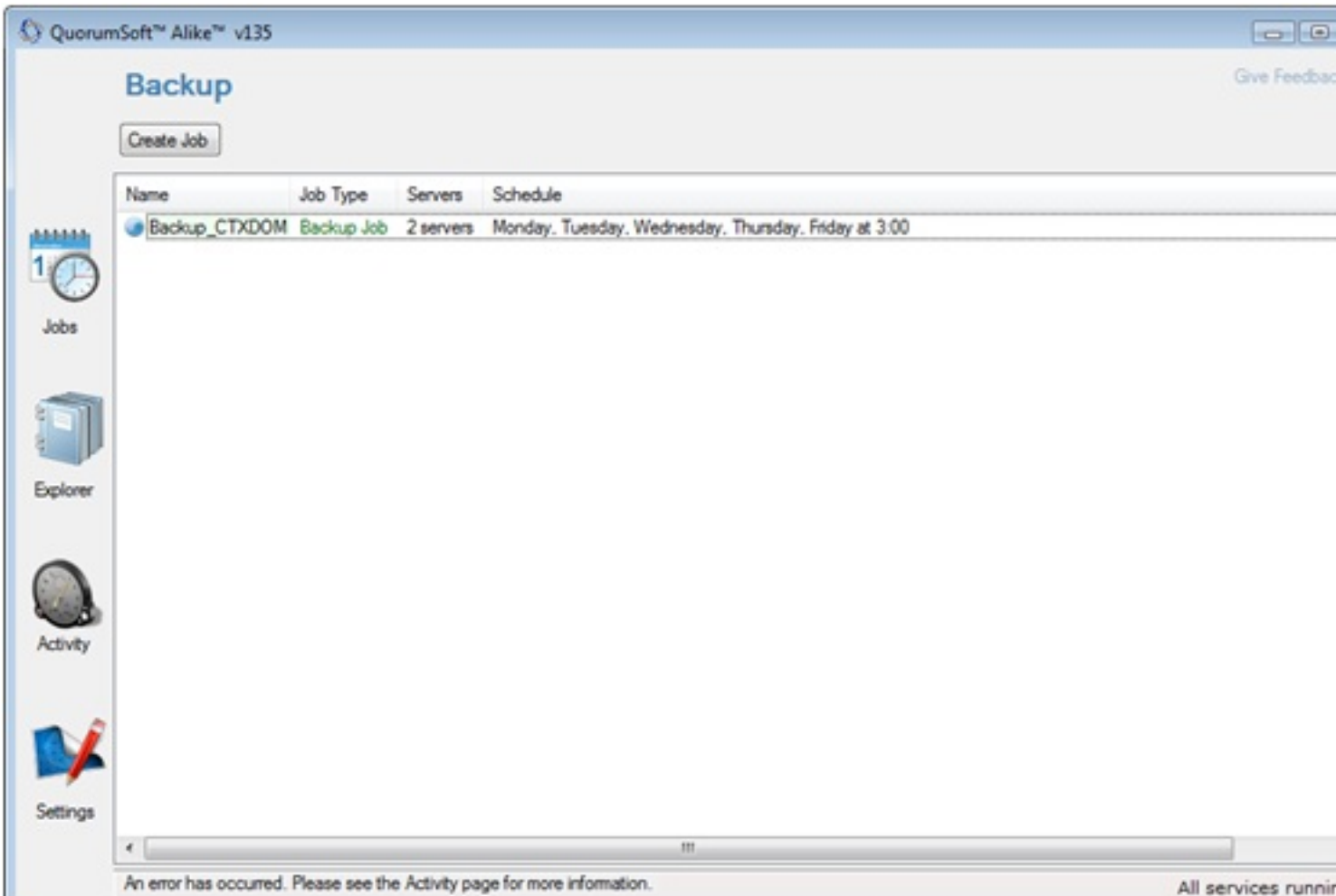
Cancel

Finalizado, ya tendremos el Job preparado para ser lanzado.

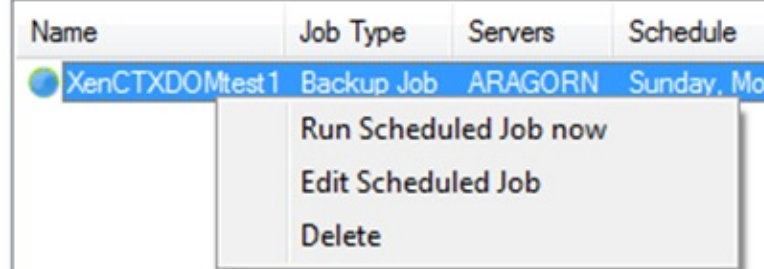
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Por defecto, el Backup se ejecuta automáticamente y, si es necesario, forzar a lanzar el Backup sin esperar

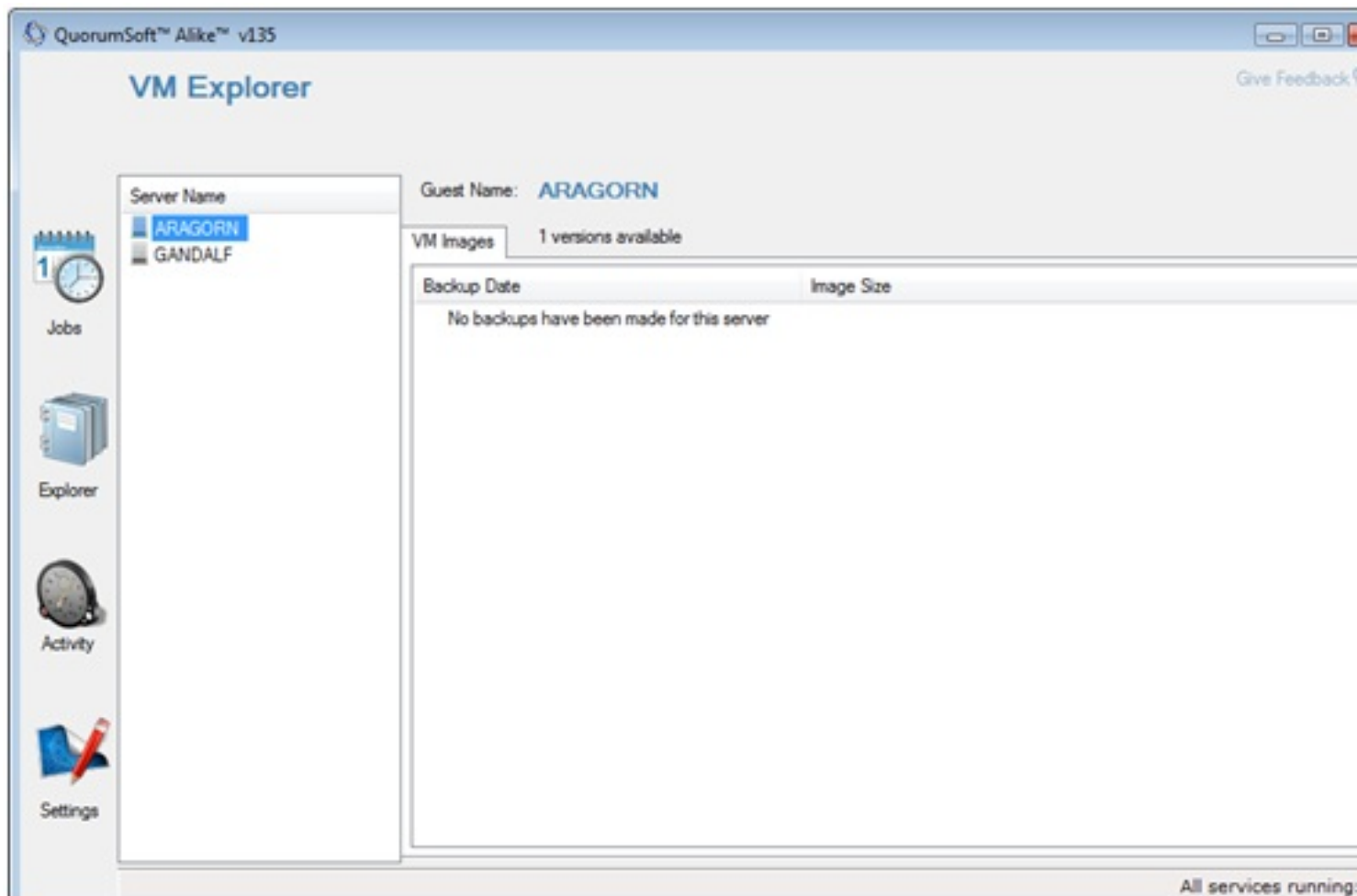


Entre todos los programas Backup de XenServer, el permitidos de recuperación hasta las máquinas y/o

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Por último en Activity podremos ver un report de Logs de los Jobs y del estado de los mismos.

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QuorumSoft™ Alike™ v135

System Activity

Give Feedback

Job Name	Job Type	Status	Time Started	Time Completed	Total Size	Changed Amount	Compression
Alike Service Error	Error	Failed	mar, abr 20, 9:56	mar, abr 20, 9:56	0	0	N/A
Alike Service Error	Error	Failed	mar, abr 20, 9:56	mar, abr 20, 9:56	0	0	N/A
Alike Service Error	Error	Failed	mar, abr 20, 9:46	mar, abr 20, 9:46	0	0	N/A
Alike Service Error	Error	Failed	mar, abr 20, 9:46	mar, abr 20, 9:46	0	0	N/A
Alike Service Error	Error	Failed	mar, abr 20, 9:42	mar, abr 20, 9:42	0	0	N/A

Jobs

Explorer

Activity

Settings

All services running

Alike permite también informarse de los servicios de la solución desde el icono de bola verde

Alike Services Manager

Schedule service is Started [stop] [play]

Vault service is Started [stop] [play]

All services running: [green circle]

Después de la ejecución del Backup podemos ver su estado en el panel de Activity tal y como

System Activity

Job Name	Job Type	Status	Time Started	Time Completed	Total Size	Changed Amount
XenCTXDOMtest1	Backup Job	Success	mar, abr 20, 10:10	N/A	8 GB	0
Alike Service Error	Error	Failed	mar, abr 20, 10:06	mar, abr 20, 10:06	0	0
Alike Service Error	Error	Failed	mar, abr 20, 10:06	mar, abr 20, 10:06	0	0
Alike Service Error	Error	Failed	mar, abr 20, 9:56	mar, abr 20, 9:56	0	0

Disponemos del botón de tareas para los trabajos en ejecución y de que está activado el Log, ese

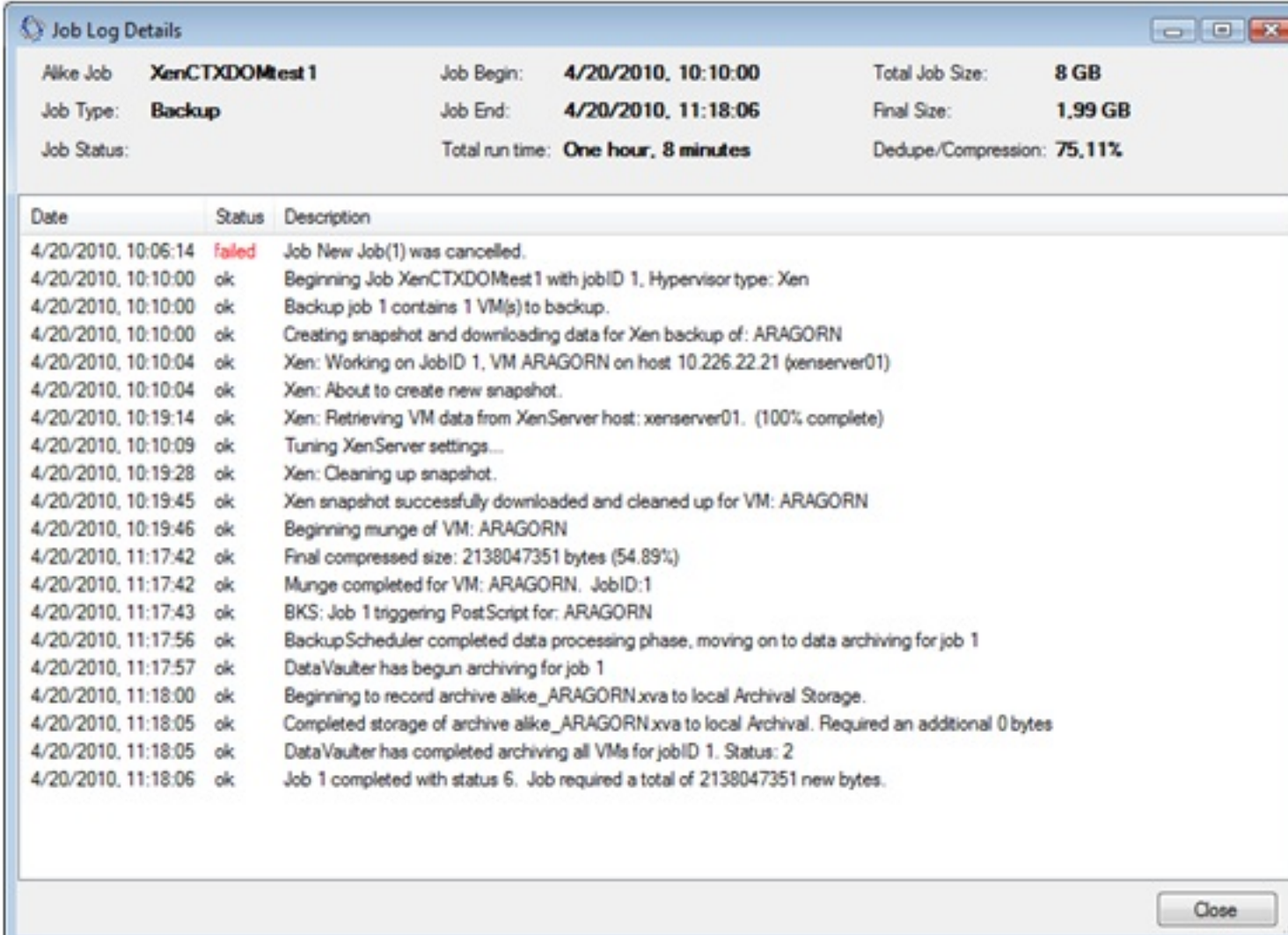
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The screenshot shows a window titled "Job Log Details" with a summary of a backup job and a detailed log of events.

Job Summary:

Field	Value
Alike Job	XenCTXDOMtest 1
Job Type	Backup
Job Status	
Job Begin	4/20/2010, 10:10:00
Job End	4/20/2010, 11:18:06
Total run time	One hour, 8 minutes
Total Job Size	8 GB
Final Size	1.99 GB
Dedupe/Compression	75.11%

Job Log Details:

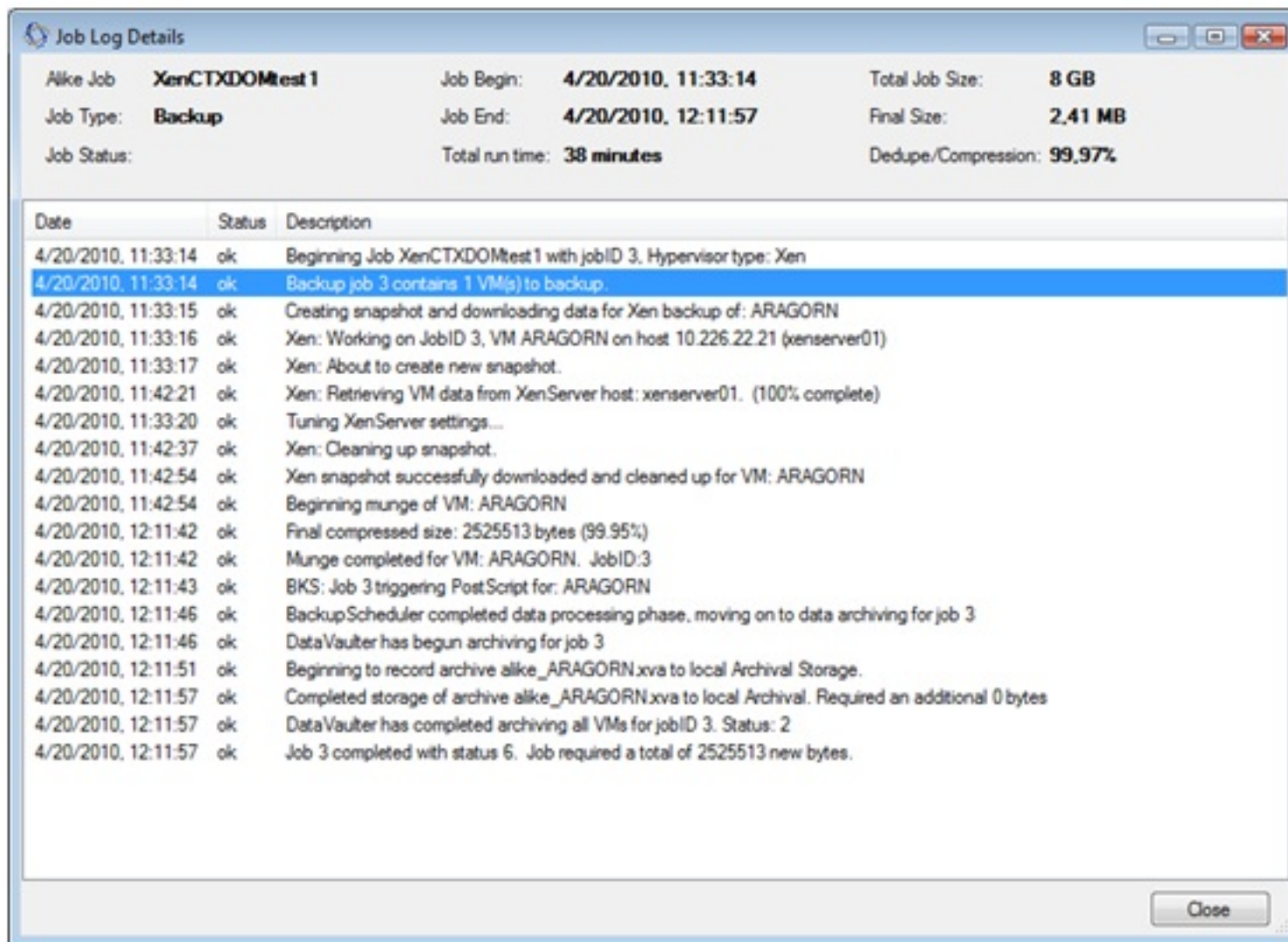
Date	Status	Description
4/20/2010, 10:06:14	failed	Job New Job(1) was cancelled.
4/20/2010, 10:10:00	ok	Beginning Job XenCTXDOMtest1 with jobID 1. Hypervisor type: Xen
4/20/2010, 10:10:00	ok	Backup job 1 contains 1 VM(s) to backup.
4/20/2010, 10:10:00	ok	Creating snapshot and downloading data for Xen backup of: ARAGORN
4/20/2010, 10:10:04	ok	Xen: Working on JobID 1, VM ARAGORN on host 10.226.22.21 (xenserver01)
4/20/2010, 10:10:04	ok	Xen: About to create new snapshot.
4/20/2010, 10:19:14	ok	Xen: Retrieving VM data from XenServer host: xenserver01. (100% complete)
4/20/2010, 10:10:09	ok	Tuning XenServer settings...
4/20/2010, 10:19:28	ok	Xen: Cleaning up snapshot.
4/20/2010, 10:19:45	ok	Xen snapshot successfully downloaded and cleaned up for VM: ARAGORN
4/20/2010, 10:19:46	ok	Beginning munge of VM: ARAGORN
4/20/2010, 11:17:42	ok	Final compressed size: 2138047351 bytes (54.89%)
4/20/2010, 11:17:42	ok	Munge completed for VM: ARAGORN. JobID:1
4/20/2010, 11:17:43	ok	BKS: Job 1 triggering PostScript for: ARAGORN
4/20/2010, 11:17:56	ok	BackupScheduler completed data processing phase, moving on to data archiving for job 1
4/20/2010, 11:17:57	ok	DataVault has begun archiving for job 1
4/20/2010, 11:18:00	ok	Beginning to record archive alike_ARAGORN.xva to local Archival Storage.
4/20/2010, 11:18:05	ok	Completed storage of archive alike_ARAGORN.xva to local Archival. Required an additional 0 bytes
4/20/2010, 11:18:05	ok	DataVault has completed archiving all VMs for jobID 1. Status: 2
4/20/2010, 11:18:06	ok	Job 1 completed with status 6. Job required a total of 2138047351 new bytes.

Aquí otro ejemplo con una compresión/dedupe del 99,97% y un tiempo de Backup de 38 min.

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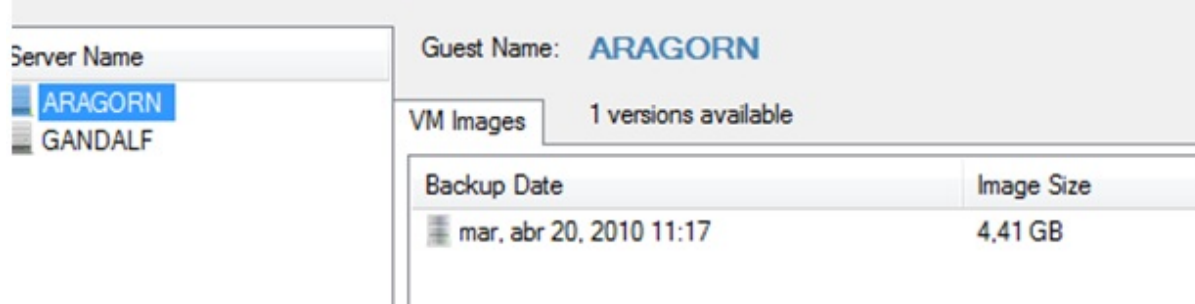
Job Log Details

Alike Job:	XenCTXDOMtest 1	Job Begin:	4/20/2010, 11:33:14	Total Job Size:	8 GB
Job Type:	Backup	Job End:	4/20/2010, 12:11:57	Final Size:	2.41 MB
Job Status:		Total run time:	38 minutes	Dedupe/Compression:	99.97%

Date	Status	Description
4/20/2010, 11:33:14	ok	Beginning Job XenCTXDOMtest1 with jobID 3. Hypervisor type: Xen
4/20/2010, 11:33:14	ok	Backup job 3 contains 1 VM(s) to backup.
4/20/2010, 11:33:15	ok	Creating snapshot and downloading data for Xen backup of: ARAGORN
4/20/2010, 11:33:16	ok	Xen: Working on JobID 3, VM ARAGORN on host 10.226.22.21 (xenserver01)
4/20/2010, 11:33:17	ok	Xen: About to create new snapshot.
4/20/2010, 11:42:21	ok	Xen: Retrieving VM data from XenServer host: xenserver01. (100% complete)
4/20/2010, 11:33:20	ok	Tuning XenServer settings...
4/20/2010, 11:42:37	ok	Xen: Cleaning up snapshot.
4/20/2010, 11:42:54	ok	Xen snapshot successfully downloaded and cleaned up for VM: ARAGORN
4/20/2010, 11:42:54	ok	Beginning munge of VM: ARAGORN
4/20/2010, 12:11:42	ok	Final compressed size: 2525513 bytes (99.95%)
4/20/2010, 12:11:42	ok	Munge completed for VM: ARAGORN. JobID:3
4/20/2010, 12:11:43	ok	BKS: Job 3 triggering PostScript for: ARAGORN
4/20/2010, 12:11:46	ok	BackupScheduler completed data processing phase, moving on to data archiving for job 3
4/20/2010, 12:11:46	ok	DataVaultier has begun archiving for job 3
4/20/2010, 12:11:51	ok	Beginning to record archive alike_ARAGORN.xva to local Archival Storage.
4/20/2010, 12:11:57	ok	Completed storage of archive alike_ARAGORN.xva to local Archival. Required an additional 0 bytes
4/20/2010, 12:11:57	ok	DataVaultier has completed archiving all VMs for jobID 3. Status: 2
4/20/2010, 12:11:57	ok	Job 3 completed with status 6. Job required a total of 2525513 new bytes.

Job Name	Job Type	Status	Time Started	Time Completed	Total Size	Changed
XenCTXDOMtest1	Backup Job	Complete	mar, abr 20, 10:10	mar, abr 20, 11:18	8 GB	1.99 GB

Ahora en el explorador podemos ver las imágenes que tenemos



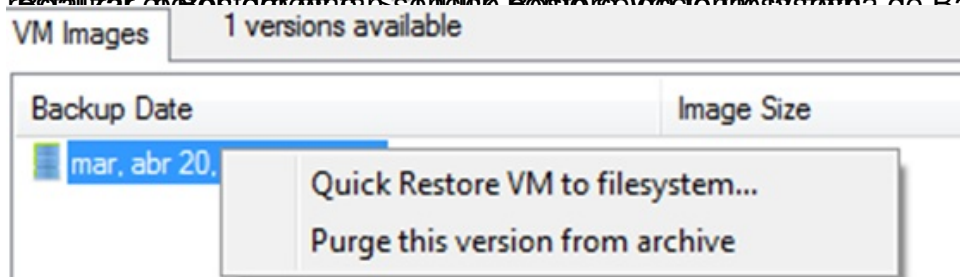
Server Name: **ARAGORN**

Guest Name: **ARAGORN**

VM Images: 1 versions available

Backup Date	Image Size
mar, abr 20, 2010 11:17	4.41 GB

Realizar el botón de "Quick Restore VM to filesystem..." de Backup que queremos



VM Images: 1 versions available

Backup Date	Image Size
mar, abr 20, 2010 11:17	4.41 GB

- Quick Restore VM to filesystem...
- Purge this version from archive

Si hacemos clic en el botón de "Quick Restore VM to filesystem..." de Backup que queremos

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Job Name	Job Type	Status	Time Started	Time Completed	Total Size	Changed A
Manual Restore of ARAG...	Restore Job	<div><div></div></div>	mar, abr 20, 12:15	N/A	0	N/A
XenCTXDOMtest1	Backup Job	Complete	mar, abr 20, 11:33	mar, abr 20, 12:11	8 GB	2,41 MB
XenCTXDOMtest1	Backup Job	Complete	mar, abr 20, 10:10	mar, abr 20, 11:18	8 GB	1,99 GB

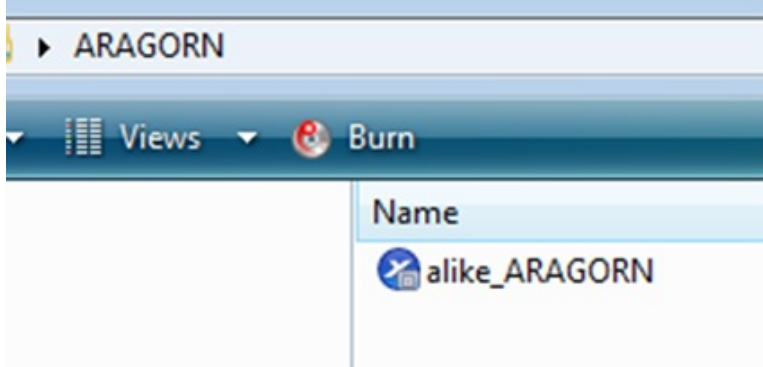
Podemos ver el estado del mismo, al igual que hacemos con el proceso de Backup

Job Log Details

Alike Job	Manual Restore of ARAGORN	Job Begin:	4/20/2010, 12:15:58	Total Job Size:	0
Job Type:	Restore	Job End:	In Progress	Final Size:	0
Job Status:	<div><div></div></div>	Total run time:	3 minutes and 14 seconds	Dedupe/Compression:	TBD

Date	Status	Description
4/20/2010, 12:15:58	ok	Beginning Job Manual Restore of ARAGORN with jobID 4, Hypervisor type: Xen
4/20/2010, 12:15:58	ok	Notifying DV it should start data retrieval for job 4
4/20/2010, 12:15:59	ok	DV: Entering retrieveJob for job: 4
4/20/2010, 12:15:59	ok	Retrieving blocks for file: alike_ARAGORN.xva
4/20/2010, 12:15:59	ok	DV: Beginning file rebuild from: alike_ARAGORN.xva to: C:\Users\██████████\Desktop\ARAGORN

En XenServer se crea una consola de comandos VM, en nuestro caso, en el servidor. En mi caso realizar un import



Para la instalación de Alike en las máquinas virtuales, se puede optar por instalarlo directamente en la consola de comandos. Documento original en cristiansan, ampliado por xavisan.