

INFORMÁTICA Y TECNOLOGÍA INTEGRADA

# Guías para el resguardo de la información en los servidores de la universidad

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### Procedimiento de resguardo de servidores en Sagrado

**Paso 1:** Seleccionamos un trabajo preexistente para mantenerlos organizados, en este caso seleccionaremos *Document Imaging and Printing Backup* y presionamos *Edit* 

迟 JOB TOOLS	 මේ You	r computer is beind c	EAM-BRECK UP, ANR D	BIGATIO <b>SS ~</b>				- @ ×
E▼ HOME VIEW JOB		· · · · · · · · · · · · · · · · · · ·						?
Start Stop Retry Active Full	Edit Clone Disable Delete							
Job Control Details	Manage Job							
HOME	Q Type in an object name to search for		×					
a 🐐 Jobs	NAME	TYPE	OBJECTS	STATUS	LAST RUN	LAST RESULT	NEXT RUN	TARGET 🕇
de Backup	龄 SCCM Backup	Hyper-V Backup	2	Stopped	11 hours ago	Success	2/3/2021 10:00:0	SCCM Veeam
🛗 Backup Copy	Document Imaging and Printers Backup	Hyper-V Backup	3	Stopped	13 hours ago	Warning	2/3/2021 8:00:00	Synology Re
4 🔓 Backups	Difference Backup	Hyper-V Backup	2	Stopped	10 hours ago	Success	2/3/2021 11:30:0	Synology Rej
📥 Disk	🔅 ITI Servers Backup	Hyper-V Backup	5	Stopped	4 days ago	Warning	2/27/2021 1:00:0	Synology Rej
📩 Cloud	🕸 Inepro Backup	Hyper-V Backup	2	Stopped	10 hours ago	Success	2/3/2021 11:00:0	Synology Rej
<ul> <li>Last 24 Hours</li> </ul>	🔅 Ethority Backup	Hyper-V Backup	4	Stopped	14 hours ago	Warning	2/3/20217:15:00	Synology Rej
🔯 Success	🔅 Service Desks Backup	Hyper-V Backup	2	Stopped	10 hours ago	Warning	2/3/2021 11:00:0	Synology Rej
🙀 Warning	🔅 Kuali Backup	Hyper-V Backup	7	Stopped	14 hours ago	Success	2/3/20217:00:00	Synology Rej
	🔅 SQL Servers Backup	Hyper-V Backup	3	Stopped	16 hours ago	Success	2/3/2021 5:00:00	Synology Rej
	🔅 Other Apps Backup	Hyper-V Backup	14	Stopped	11 hours ago	Warning	2/3/2021 10:00:0	Synology Rej
	<							>

**Paso 2**: La primera página del *edit* nos da la opción de modificar el nombre del trabajo y la descripción la cual no es necesario cambiar en este caso.

1.0	0.011.0		n
	Edit Backup Job [Document Imagin	ig and Printers Backup]	$\times$
	Name Type in a name and des	cription for this backup job.	
ł		Name	
H	Name	Document Imaging and Printers Backup	
	Virtual Machines	Description:	
	Storage	Created by SAGRADO\bi at 9/18/2019 12:38 PM.	
	Guest Processing		
	Schedule		
ł	Summary		
JI			
u			
ю			
ət			
A			
		< Previous Next > Finish Ca	ncel
		Changed block tracking is enabled	

**Paso 3:** En la segunda pantalla del *edit* podemos ver los servidores que están en resguardo por medio de trabajo, para añadir otro servidor al trabajo seleccionamos *Add* 

Edit Backup Job [Document	Imaging and Printers Backup]			×
Select virtual Machine Select virtual ma as you add new	<b>is</b> ichines to process via container, or granulai VM into container.	ly. Container provid	les dynamic selection that aut	omatically changes
Name	Virtual machines to backup:			
N21 - 184 - 12	Name	Туре	Size	Add
Virtual Machines	ricohprinters.sagrado.edu	VM	50.0 GB	Remove
Storage	USC-Digital-Rep	VM	188 GB	
	USC-Digital-SQL	VM	37.0 GB	l
Guest Processing				Exclusions
Schedule				
Schedule				✿ Up
Summary				di Davan
1				◆ Down
ot				
				Recalculate
				Total size: 275 GB
				_ 213 00
		< Previous	Next > Finish	Cancel
L	Changed block tracking	ris enableu		

**Paso 4:** En la pantalla que nos aparece buscamos dentro de la aglomeración de servidores y seleccionamos el servidor que necesitemos y le damos a *Add* 

Add Objects	×	] ×
Select objects:	N 📴 🐗 📬	that automatically changes
> 🗊 USC-Barat		
✓ iiii usc-main > ■ USC-HOST1		Add
> 📃 USC-HOST2 > 🗮 VRTX05		Nemove
> VRTX06		Exclusions
astrasql.sagrado.edu		1 Up
atesql.sagrado.edu		✤ Down
bitaging.sagrado.edu		
Crimelog.sagrado.edu		
dev-db.kuali.sagrado.edu		
dolphyprint.sagrado.edu		Recalculate
ethorityfs01.sagrado.edu	~	
★▼ Type in an object name to search for	Q	Total size: 275 GB
	Add Cancel	
	Add Objects Select objects:	Add Objects X Select objects: Select object: Select object: Sel

Select virtual ma as you add new V	s chines to process via container, or granula /M into container.	ly. Container provid	les dynamic selection that au	tomatically change
Vame	Virtual machines to backup:			
	Name	Туре	Size	Add
/irtual Machines	ricohprinters.sagrado.edu	VM	50.0 GB	Remove
itorage	USC-Digital-Rep	VM	368 GB	nemore.
<b>j</b> -	USC-Digital-SQL	VM	49.3 GB	
Suest Processing	USC-SMTPRelay	VM	17.9 GB	Exclusions
ichedule				♠ Ho
Summary				<ul> <li>Op</li> <li>Down</li> </ul>
				Pacalculata
				Recalculate
				Total size: 485 GB

**Paso 5:** Una vez tengamos el servidor en la lista le damos *Next* para continuar a la próxima pantalla.

**Paso 6:** En esta pantalla nos permite escoger la localización de los resguardos y las cantidades de resguardos que se van a mantener guardados. En este caso ya tenemos la información correcta para el trabajo. Presionamos *Next* 

Edit Backup Job [Documer	it Imaging and Printers Backup]	×
Specify proces job and custor	sing proxy server to be used for source data retrieval, backup repository to store the backup file nize advanced job settings if required.	s produced by this
Name	Backup proxy:	
10 I. I. I.	Off-host backup (automatic proxy selection)	Choose
Virtual Machines	Backup repository:	
Storage	Synology Repository (Created by SAGRADO\bi at 2/18/2019 12:16 PM.)	
Guest Processing	6.15 TB free of 9.76 TB Map backup	
Schedule	Restore points to keep on disk: 7 📮 🕦	
Summary	Configure secondary destinations for this job Use the backups produced by this job to satisfy backup requirement by archiving or efficiently creating remote backups and replicas over WAN.	backups to tape,
	Advanced job settings include backup mode, compression and deduplication, block size, notification settings, automated post-job activity and other settings.	🔅 Advanced
	< Previous Next > Finish	Cancel
	Changed block tracking is enabled	

**Paso 7:** En la siguiente pantalla podemos seleccionar la opción para *Application Aware* o *Guest File Indexing* 

Application Aware se utiliza para que Veeam pueda manejar ciertas aplicaciones en caso de hacer restauraciones del sistema. Por Ejemplo, SQL, Si se activa en un SQL Veeam tiene la capacidad de identificar los Logs files del SQL y manejar sus resguardo y restauración.

*Guest File Indexing* se utiliza para que Veeam haga un índice de los Files dentro del sistema operativa y se haga más fácil hacer restauraciones de archivos individuales. No es necesarios para hacer restauración de archivos individuales, pero en el caso de Files server es una herramienta que puede acortar el tiempo de restauración de archivos individuales.

Edit Backup Job [Document Ir	naging and Printers Backup]	×
Guest Processing Choose guest OS	I processing options available for running VMs.	
Name	Enable application-aware processing	
Virtual Machines	Detects and prepares applications for consistent backup, performs transaction log configures the OS to perform required application restore steps upon first boot.	s processing, and
Storage	Customize application handling options for individual items and applications	Applications
Guest Processing Schedule	Enable guest file system indexing     Creates catalog of guest files to enable browsing, searching and 1-click restores of     Indexing is optional, and is not required to perform instant file level recoveries.	individual files.
	Customize advanced guest file system indexing options for individual items	Indexing
Summary	Guest OS credentials	
		Add
	Manage accounts	
	Customize guest OS credentials for individual items and operating systems Guest interaction proxy:	Credentials
	Automatic selection	Choose
		Test Now
	< Previous Next > Finish	Cancel

Para estos servidores no se utiliza así que podemos seleccionar Next

**Paso 8:** En esta pantalla tenemos la opción de seleccionar las frecuencias en que el trabajo va a ser ejecutado.

Podemos seleccionar diario, mensual, periódico (si queremos que sea mas de una vez en el día) o después de que otro trabajo termine para que no hayan mas de un trabajo corriendo a la vez. Además, podemos predeterminar que pasa si el trabajo falla como cuantas veces va a volver a intentarlo y cuanto tiempo esperar entre los internos.

Specify the job	scheduling options. If you do not set	the schedule, the	job will need to	be controlled manua	ally.
Name	Run the job automatical	у			
Columbia and	Daily at this time:	8:00 PM 😫	Everyday		✓ Days…
intual Machines	O Monthly at this time:	10:00 PM 🗘	Fourth	Saturday	Months
torage	Periodically every:	1	Hours		Schedule.
uest Processing	<ul> <li>After this job:</li> </ul>	Ethority Backup	(Created by SA	GRADO\bi at 9/18/20	019 11:17 AM.)
chedule	Automatic retry				
	Retry failed items pro	cessing: 3	🔹 times		
ummary		10	<ul> <li>minutes</li> </ul>		
	Wait before each retry	y attempt for: 10	<ul> <li>Initiates</li> </ul>		
	Wait before each retry Backup window	y attempt for: 10	▼ minutes		
·	Wait before each retry Backup window Terminate job if it exc	eeds allowed back	up window		Window.
	Wait before each retry Backup window Terminate job if it exc If the job does not co terminated to preven	eeds allowed back mplete within allo t snapshot commi	up window cated backup w t during product	indow, it will be tion hours.	Window.
	Wait before each rety Backup window Terminate job if it exc If the job does not co terminated to preven	eeds allowed back mplete within allo t snapshot commi	cated backup w t during product	indow, it will be tion hours.	Window.
	Wait before each retry Backup window Terminate job if it exc If the job does not co terminated to preven	eeds allowed back mplete within allo t snapshot commi	up window cated backup w t during product	indow, it will be tion hours.	Window.
	Wait before each retn Backup window Terminate job if it exc If the job does not co terminated to preven	eeds allowed back mplete within allo t snapshot commi	up window cated backup w t during product	indow, it will be tion hours.	Window

**Paso 9:** En el último paso verificamos el resumen y de ser necesario de corre el trabajo en el momento podemos seleccionar el *Run the job when I click Finish* y seleccionamos *Finish* 

four i	
Edit Backup Job [Document	maging and Printers Backup] ×
Summary	
The job's setting	s have been saved successfully. Click Finish to exit the wizard.
Name	Summary:
	Name: Document Imaging and Printers Backup
Virtual Machines	Target Path: F:\Backups
	Type: Hyper-V Backup
Storage	Source items:
-	IISC Digital Pag (use main)
Guest Processing	USC-Digital-SQL (usc-main)
-	USC-SMTPRelay (usc-main)
Schedule	Target repository: Synology Repository
	Target repository host: USC-Veeam.sagrado.edu
Summary	Target repository path: F:\Backups
1	Command line to start the job on backup server:
	539b8e45-3b9c-49c5-a1a5-261bea8086a0
1	
-	
4	
4	
	Run the job when I click Finish
	< Previous Next > Finish Cancel
	The state of the s
L	Car Chandeo Diock tracking is enabled

### Puntos de Retención

Sagrado cuenta con dos estilos de resguardos para los servidores. Trabajos Diarios y Trabajos Mensuales. Los trabajos diarios mantienen en promedio dos semanas de resguardos diarios. Los trabajos mensuales mantienen 12 puntos de retenciones mensuales para crear un año de resguardos.

### **Trabajos Diarios**

### Kuali Backup – 14 días de retención

Edit Backup Job [Kuali Backup]	×
Storage Specify processing prijob and customize ad	roxy server to be used for source data retrieval, backup repository to store the backup files produced by this Jvanced job settings if required.
Name	Backup proxy:
Virtual Machines	Off-host backup (automatic proxy selection) Choose Backup repository:
Storage	Synology Repository (Created by SAGRADO\bi at 2/18/2019 12:16 PM.)
Secondary Target	4.62 TB free of 9.76 TB Map backup
Guest Processing	Restore points to keep on disk: 14 🔅 🕦
Schedule	Configure secondary destinations for this job Use the backups produced by this job to satisfy backup requirement by archiving backups to tape,
Summary L	or efficiently creating remote backups and replicas over WAN.
	Advanced job settings include backup mode, compression and deduplication, block of Advanced size, notification settings, automated post-job activity and other settings.
	< Previous Next > Finish Cancel

### SQL Servers Backup – 14 días de retención

Edit Backup Job [SQL Servers Bac	kup] X
Storage Specify processing pr job and customize ad	roxy server to be used for source data retrieval, backup repository to store the backup files produced by this Ivanced job settings if required.
Name	Backup proxy:           Off-host backup (automatic proxy selection)         Choose
Virtual Machines	Backup repository:
Secondary Target	Synology Repository (Created by SAGRADO\bi at 2/18/2019 12:16 PM.)
Guest Processing	Restore points to keep on disk: 14 💼 🕦
Schedule Summary	Configure secondary destinations for this job Use the backups produced by this job to satisfy backup requirement by archiving backups to tape, or efficiently creating remote backups and replicas over WAN.
	Advanced job settings include backup mode, compression and deduplication, block of Advanced size, notification settings, automated post-job activity and other settings.
	< Previous Next > Finish Cancel

### Service Desks Backup – 14 días de retención

Edit Backup Job [Service Desks B	ackup] X
Storage Specify processing p job and customize a	roxy server to be used for source data retrieval, backup repository to store the backup files produced by this dvanced job settings if required.
Name Virtual Machines	Backup proxy: Off-host backup (automatic proxy selection) Choose
Storage	Backup repository: Synology Repository (Created by SAGRADO\bi at 2/18/2019 12:16 PM.) ~
Secondary Target	4.62 TB free of 9.76 TB Map backup
Guest Processing	Restore points to keep on disk: 14
Schedule	✓ Configure secondary destinations for this job
Summary	Use the backups produced by this job to satisfy backup requirement by archiving backups to tape, or efficiently creating remote backups and replicas over WAN.
	Advanced job settings include backup mode, compression and deduplication, block
	size, notification settings, automated post-job activity and other settings.
	< Previous Next > Finish Cancel

### SCCM Backup – 14 días de retención

Edit Backup Job [SCCM Backup]	×	(
Storage Specify processing pr job and customize ac	oxy server to be used for source data retrieval, backup repository to store the backup files produced by this vanced job settings if required.	;
Name	Backup proxy:	
Virtual Machiner	Off-host backup (automatic proxy selection) Choose	
Virtual Machines	Backup repository:	
Storage	SCCM Veeam Repository (Created by SAGRADO\bi at 1/29/2020 5:26 PM.) $\qquad \qquad \lor$	
Guest Processing	1.87 TB free of 3.99 TB     Map backup	
Schedule	Restore points to keep on disk: 14 🗼 🕦	
Summary	<ul> <li>Configure secondary destinations for this job</li> <li>Use the backups produced by this job to satisfy backup requirement by archiving backups to tape, or efficiently creating remote backups and replicas over WAN.</li> <li>Advanced job settings include backup mode, compression and deduplication, block</li> <li>Advanced job settings include backup mode, compression and deduplication, block</li> </ul>	
	size, notification settings, automated post-job activity and other settings.	
	< Previous Next > Finish Cancel	

### ITI Servers Backup – 14 días de retención

Edit Backup Job [SCCIVI Backup]	Х
Storage Specify processing projob and customize ad	oxy server to be used for source data retrieval, backup repository to store the backup files produced by this vanced job settings if required.
Name Virtual Machines	Backup proxy: Off-host backup (automatic proxy selection) Choose Backup repository:
Storage	SCCM Veeam Repository (Created by SAGRADO\bi at 1/29/2020 5:26 PM.)
Guest Processing	1.87 TB free of 3.99 TB     Map backup
Schedule	Restore points to keep on disk: 14 🚖 🚺
Summary	<ul> <li>Configure secondary destinations for this job</li> <li>Use the backups produced by this job to satisfy backup requirement by archiving backups to tape, or efficiently creating remote backups and replicas over WAN.</li> <li>Advanced job settings include backup mode, compression and deduplication, block size notification settings.</li> </ul>
	< Previous Next > Finish Cancel

### Inepro Backup – 14 días de retención

Edit Backup Job [Inepro Backup]	×
Storage Specify processing pr job and customize ac	roxy server to be used for source data retrieval, backup repository to store the backup files produced by this Jvanced job settings if required.
Name	Backup proxy:
Virtual Machines	Off-host backup (automatic proxy selection) Choose
Storage	Synology Repository (Created by SAGRADO\bi at 2/18/2019 12:16 PM.)
Secondary Target	4.58 TB free of 9.76 TB   Map backup
Guest Processing	Restore points to keep on disk: 14 🚔 🕦
Schedule	Configure secondary destinations for this job
Summary	Use the backups produced by this job to satisfy backup requirement by archiving backups to tape, or efficiently creating remote backups and replicas over WAN.
	Advanced job settings include backup mode, compression and deduplication, block size, notification settings, automated post-job activity and other settings.
	< Previous Next > Finish Cancel

### File Servers Backup – 14 días de retención

Edit Backup Job [File Servers Bac	kup] X
Storage Specify processing pr job and customize ac	roxy server to be used for source data retrieval, backup repository to store the backup files produced by this dvanced job settings if required.
Name Virtual Machines	Backup proxy: Off-host backup (automatic proxy selection) Choose
C1	Backup repository:
Storage	Synology Repository (Created by SAGRADO\bi at 2/18/2019 12:16 PM.)
Secondary Target	4.56 TB free of 9.76 TB Map backup
Guest Processing	Restore points to keep on disk: 14 🔹 🕦
Schedule	☑ Configure secondary destinations for this job
Summary	Use the backups produced by this job to satisfy backup requirement by archiving backups to tape, or efficiently creating remote backups and replicas over WAN.
	Advanced job settings include backup mode, compression and deduplication, block size, notification settings, automated post-job activity and other settings.
	< Previous Next > Finish Cancel

### Document Imaging and Printers Backup – 7 días de retención

Edit Backup Job [Document Imag	jing and Printers Backup]	Х
Storage Specify processing pr job and customize ac	roxy server to be used for source data retrieval, backup repository to store the backup files produced by Ivanced job settings if required.	this
Name	Backup proxy: Off-host backup (automatic proxy selection) Choose	
Virtual Machines	Backup repository:	
Guest Processing	Synology Repository (Created by SAGRADO\bi at 2/18/2019 12:16 PM.) 4.56 TB free of 9.76 TB Map backup	
Schedule	Restore points to keep on disk: 7 🚖 1	
Summary	Configure secondary destinations for this job Use the backups produced by this job to satisfy backup requirement by archiving backups to tape or efficiently creating remote backups and replicas over WAN.	a,
	Advanced job settings include backup mode, compression and deduplication, block size, notification settings, automated post-job activity and other settings.	d
	< Previous Next > Finish Cancel	

### Ethority Backup – 7 días de retención

Edit Backup Job [Ethority Backup	) ×
Storage Specify processing p job and customize a	roxy server to be used for source data retrieval, backup repository to store the backup files produced by this dvanced job settings if required.
Name Virtual Machines	Backup proxy:           Off-host backup (automatic proxy selection)         Choose           Backup repository:         Choose
Storage	Synology Repository (Created by SAGRADO\bi at 2/18/2019 12:16 PM.)
Secondary Target	4.55 TB free of 9.76 TB   Map backup
Guest Processing	Restore points to keep on disk: 7 🔅 🚺
Schedule	Configure secondary destinations for this job
Summary	or efficiently creating remote backups and replicas over WAN.
	Advanced job settings include backup mode, compression and deduplication, block size, notification settings, automated post-job activity and other settings.
	< Previous Next > Finish Cancel

### Other Apps Backups – 7 días de retención

Edit Backup Job [Ethority Backup	] ×
Storage Specify processing pr job and customize ac	roxy server to be used for source data retrieval, backup repository to store the backup files produced by this Ivanced job settings if required.
Name Virtual Machines	Backup proxy: Off-host backup (automatic proxy selection) Choose
Storage	Backup repository: Synology Repository (Created by SAGRADO\bi at 2/18/2019 12:16 PM.)
Secondary Target	4.55 TB free of 9.76 TB Map backup
Guest Processing	Restore points to keep on disk: 7 🐳 🕦
Schedule Summary	Configure secondary destinations for this job Use the backups produced by this job to satisfy backup requirement by archiving backups to tape, or efficiently creating remote backups and replicas over WAN.
	Advanced job settings include backup mode, compression and deduplication, block of Advanced size, notification settings, automated post-job activity and other settings.
	< Previous Next > Finish Cancel

### Trabajos mensuales

### Monthly Kuali Backup – 12 días de retención

Edit Backup Job [Monthly Kuali B	Backup] X
Storage Specify processing p job and customize ad	roxy server to be used for source data retrieval, backup repository to store the backup files produced by this dvanced job settings if required.
Name Virtual Machines	Backup proxy: Off-host backup (automatic proxy selection) Choose Backup repositors
Storage	Symplogy Repository (Created by SAGRADO\bi at 2/18/2019 12:16 PM.)
Guest Processing	Image: State of the state of t
Schedule	Restore points to keep on disk: 12 🛓 1
Summary	<ul> <li>Configure secondary destinations for this job</li> <li>Use the backups produced by this job to satisfy backup requirement by archiving backups to tape, or efficiently creating remote backups and replicas over WAN.</li> <li>Advanced job settings include backup mode, compression and deduplication, block size, notification settings, automated post-job activity and other settings.</li> </ul>
	< Previous Next > Finish Cancel

### Monthly SQL Servers Backup – 12 días de retención

Edit Backup Job [Monthly SQL S	ervers Backup]
Storage Specify processing p job and customize a	roxy server to be used for source data retrieval, backup repository to store the backup files produced by this dvanced job settings if required.
Name Virtual Machines	Backup proxy: Off-host backup (automatic proxy selection) Choose
Storage	Backup repository:
Storage	Synology Repository (Created by SAGRADO\bi at 2/18/2019 12:16 PM.)
Guest Processing	4.54 TB free of 9.76 TB Map backup
Schedule	Restore points to keep on disk: 12 💼 👔
Summary	<ul> <li>Configure secondary destinations for this job</li> <li>Use the backups produced by this job to satisfy backup requirement by archiving backups to tape, or efficiently creating remote backups and replicas over WAN.</li> <li>Advanced job settings include backup mode, compression and deduplication, block size, notification settings, automated post-job activity and other settings.</li> </ul>
	< Previous Next > Finish Cancel

### Monthly Service Desks Backup – 12 días de retención

Edit Backup Job [Monthly Servic	e Desks Backup] ×
Storage Specify processing p job and customize a	roxy server to be used for source data retrieval, backup repository to store the backup files produced by this dvanced job settings if required.
Name	Backup proxy: Off-host backup (automatic proxy selection) Choose
Storage	Backup repository: Synology Repository (Created by SAGRADO\bi at 2/18/2019 12:16 PM.)
Guest Processing	4.54 TB free of 9.76 TB   Map backup
Schedule	Restore points to keep on disk: 12 🔹 🚺
Summary	Configure secondary destinations for this job Use the backups produced by this job to satisfy backup requirement by archiving backups to tape, or efficiently creating remote backups and replicas over WAN.
	Advanced job settings include backup mode, compression and deduplication, block size, notification settings, automated post-job activity and other settings.
	< Previous Next > Finish Cancel

### Monthly SCCM Backup – 12 días de retención

Edit Backup Job [Monthly SCCM	Backup] ×
Storage Specify processing pr job and customize ac	roxy server to be used for source data retrieval, backup repository to store the backup files produced by this Ivanced job settings if required.
Name	Backup proxy:
Virtual Machines	Backup repository:
Storage	SCCM Veeam Repository (Created by SAGRADO\bi at 1/29/2020 5:26 PM.)
Guest Processing	1.87 TB free of 3.99 TB   Map backup
Schedule	Restore points to keep on disk: 12 🗧 🚺
Summary	Configure secondary destinations for this job Use the backups produced by this job to satisfy backup requirement by archiving backups to tape, or efficiently creating remote backups and replicas over WAN.
	Advanced job settings include backup mode, compression and deduplication, block size, notification settings, automated post-job activity and other settings.
	< Previous Next > Finish Cancel

### Monthly ITI Servers Backup – 12 días de retención

Edit Backup Job [Monthly ITI Sen	vers Backup] X
Storage Specify processing pr job and customize ac	roxy server to be used for source data retrieval, backup repository to store the backup files produced by this Ivanced job settings if required.
Name Virtual Machines	Backup proxy: Off-host backup (automatic proxy selection) Choose
Storage	Backup repository:
Storage	Synology Repository (Created by SAGRADO\bi at 2/18/2019 12:16 PM.)
Guest Processing	4.53 TB free of 9.76 TB Map backup
Schedule	Restore points to keep on disk: 12 🚖 🚺
Summary	<ul> <li>Configure secondary destinations for this job</li> <li>Use the backups produced by this job to satisfy backup requirement by archiving backups to tape, or efficiently creating remote backups and replicas over WAN.</li> <li>Advanced job settings include backup mode, compression and deduplication, block size, notification, settings, automated post-iob activity and other settings.</li> </ul>
	Set instruction settings, automated post job activity and other settings.
	<pre>vious Next&gt; Finish Cancel</pre>

### Monthly Inepro Backup – 12 días de retención

Edit Backup Job [Monthly Inepro	Backup] X
Storage Specify processing pr job and customize ac	roxy server to be used for source data retrieval, backup repository to store the backup files produced by this Ivanced job settings if required.
Name Virtual Machines	Backup proxy: Off-host backup (automatic proxy selection) Choose
Storage	Backup repository: Synology Repository (Created by SAGRADO\bi at 2/18/2019 12:16 PM.)
Guest Processing	4.53 TB free of 9.76 TB   Map backup
Schedule	Restore points to keep on disk: 12 😴 🚯
Summary	Configure secondary destinations for this job Use the backups produced by this job to satisfy backup requirement by archiving backups to tape, or efficiently creating remote backups and replicas over WAN.
	size, notification settings, automated post-job activity and other settings.
	< Previous Next > Finish Cancel

### Monthly File Servers Backup - 12 días de retención

Edit Backup Job [Monthly File Servers Backup]  $\times$ Storage Specify processing proxy server to be used for source data retrieval, backup repository to store the backup files produced by this job and customize advanced job settings if required. Backup proxy: Name Off-host backup (automatic proxy selection) Choose... Virtual Machines Backup repository: Storage Synology Repository (Created by SAGRADO\bi at 2/18/2019 12:16 PM.)  $\sim$ 4.52 TB free of 9.76 TB Map backup Guest Processing Restore points to keep on disk: 12 ÷ 1 Schedule Configure secondary destinations for this job Summary Use the backups produced by this job to satisfy backup requirement by archiving backups to tape, or efficiently creating remote backups and replicas over WAN. Advanced job settings include backup mode, compression and deduplication, block 🔅 Advanced size, notification settings, automated post-job activity and other settings. < Previous Next > Finish Cancel

### Monthly Document Imaging and Printers Backup - 12 días de retención

Edit Backup Job [Monthly Document Imaging and Printers Backup]

×

Specify processing proxy server to be used for source data retrieval, backup repository to store the backup files produced by this job and customize advanced job settings if required.

Name	Backup proxy:	
	Off-host backup (automatic proxy selection)	Choose
Virtual Machines	Backup repositop/	
Storage	Supplant Peneritary (Created by CAGPADO) bi at 2/19/2010 12:16 DM )	
, , , , , , , , , , , , , , , , , , ,		
Guest Processing	4.52 TB free of 9.76 TB Map backup	
Schedule	Restore points to keep on disk: 12	
Summary	Configure secondary destinations for this job	
· · · · · · · · · · · · · · · · · · ·	Use the backups produced by this job to satisfy backup requirement by archiving ba	ckups to tape,
	or efficiently creating remote backups and replicas over WAN.	
	Advanced job settings include backup mode, compression and deduplication, block	🔅 Advanced
	size, notification settings, automated post-job activity and other settings.	
	< Previous Next > Finish	Cancel

Storage

### Monthly Other Apps Backups – 12 días de retención

Edit Backup Job [Monthly Other Apps Backup]



Specify processing proxy server to be used for source data retrieval, backup repository to store the backup files produced by this job and customize advanced job settings if required.

Backup proxy:	
Off-host backup (automatic proxy selection)	Choose
Backup repository:	
Synology Repository (Created by SAGRADO\bi at 2/18/2019 12:16 PM.)	
4.52 TB free of 9.76 TB     Map backup	
Restore points to keep on disk: 12 🔹 🚺	
Configure secondary destinations for this job	
Use the backups produced by this job to satisfy backup requirement by archiving backups and replications and	ckups to tape,
of efficiency creating remote backups and replicas over when.	
Advanced job settings include backup mode, compression and deduplication, block size, notification settings, automated post-iob activity and other settings.	🔅 Advanced
· · · · · · · · · · · · · · · · · · ·	
< Previous Next > Finish	Cancel
	Backup proxy:         Off-host backup (automatic proxy selection)         Backup repository:         Synology Repository (Created by SAGRADO\bi at 2/18/2019 12:16 PM.)         Image: Synology Repository (Created by SAGRADO\bi at 2/18/2019 12:16 PM.)         Image: Synology Repository (Created by SAGRADO\bi at 2/18/2019 12:16 PM.)         Image: Synology Repository (Created by SAGRADO\bi at 2/18/2019 12:16 PM.)         Image: Synology Repository (Created by SAGRADO\bi at 2/18/2019 12:16 PM.)         Image: Synology Repository (Created by SAGRADO\bi at 2/18/2019 12:16 PM.)         Image: Synology Repository (Created by SAGRADO\bi at 2/18/2019 12:16 PM.)         Image: Synology Repository (Created by SAGRADO\bi at 2/18/2019 12:16 PM.)         Image: Synology Repository (Created by SAGRADO\bi at 2/18/2019 12:16 PM.)         Image: Synology Repository (Created by SAGRADO\bi at 2/18/2019 12:16 PM.)         Image: Synology Repository (Created by SAGRADO\bi at 2/18/2019 12:16 PM.)         Image: Synology Repository (Created by SAGRADO\bi at 2/18/2019 12:16 PM.)         Image: Synology Repository (Created by SAGRADO\bi at 2/18/2019 12:16 PM.)         Image: Synology Repository (Created by SAGRADO\bi at 2/18/2019 12:16 PM.)         Image: Synology Repository (Created by SAGRADO\bi at 2/18/2019 12:16 PM.)         Image: Synology Repository (Created by SAGRADO\bi at 2/18/2019 12:16 PM.)         Image: Synology Repository (Created by Sagradow (Created by Sagradow (Created by Sagradow (Created by Sagradow (Cr

 $\times$ 

### Evidencia de Trabajos completados

Las verificaciones de los resguardos se hacen diariamente mediante verificación de correos electrónicos que envían el resultado de los trabajos en el momento que se completan o que fallan. Hay dos formas de comprobar el estado de un trabajo de resguardo. Mediante el servidor o mediante los correos electrónicos (método utilizado).

### Verificación desde el Servidor

${\sf Q}_{}$ Type in an object name to search for	×			
	SESSION TYPE	STATUS	START TIME 1	END TIME
Monthly Other Appr Backup (Full)	Backup	17% completed	2/12/2021 10/47 AM	
File Servers Backup (Incremental)	Backup	Succos	2/12/2021 10:47 RM	2/11/2021 11/26 DM
Pile Servers backup (incremental)	Backup	Menning .	2/11/2021 11:50 PM	2/11/2021 11:50 PM
Jacobs Backup (Incremental)	Backup	Susses	2/11/2021 11:00 PM	2/11/2021 11:13 PM
Char Area Parkup (Incremental)	Backup	Mension	2/11/2021 11:00 PM	2/11/2021 11:14 PM
Contraction (Incremental)	Васкир	warning	2/11/2021 10:00 PM	2/11/2021 10:19 PM
SCCW Backup (Incremental)	Васкир	Success	2/11/2021 10:00 PM	2/11/2021 10:22 PM
La III Servers Backup (Incremental)	Васкир	warning	2/11/2021 10:00 PM	2/11/2021 10:13 PM
L Document Imaging and Printers Backup (Incremental)	Backup	Warning	2/11/2021 8:00 PM	2/11/2021 8:04 PM
L Ethority Backup (Incremental)	Backup	Warning	2/11/2021 7:15 PM	2/11/2021 7:24 PM
Kuali Backup (Incremental)	Backup	Success	2/11/2021 7:00 PM	2/11/2021 7:08 PM
SQL Servers Backup (Incremental)	Backup	Success	2/11/2021 5:00 PM	2/11/2021 5:06 PM
Monthly SQL Servers Backup (Full)	Backup	Success	2/11/2021 10:56 AM	2/11/2021 1:29 PM
Monthly Service Desks Backup (Full)	Backup	Warning	2/11/2021 10:45 AM	2/11/2021 2:27 PM
left Monthly Inepro Backup (Full)	Backup	Success	2/11/2021 10:45 AM	2/11/2021 11:48 AM
File Servers Backup (Incremental)	Backup	Success	2/10/2021 11:30 PM	2/10/2021 11:35 PM
🔓 Service Desks Backup (Incremental)	Backup	Warning	2/10/2021 11:00 PM	2/10/2021 11:18 PM
💫 Inepro Backup (Incremental)	Backup	Success	2/10/2021 11:00 PM	2/10/2021 11:08 PM
Cher Apps Backup (Incremental)	Backup	Warning	2/10/2021 10:00 PM	2/10/2021 10:15 PM
SCCM Backup (Incremental)	Backup	Success	2/10/2021 10:00 PM	2/10/2021 10:21 PM
🗋 ITI Servers Backup (Incremental)	Backup	Warning	2/10/2021 10:00 PM	2/10/2021 10:12 PM
🔓 Document Imaging and Printers Backup (Incremental)	Backup	Warning	2/10/2021 8:00 PM	2/10/2021 8:04 PM
🗋 Ethority Backup (Incremental)	Backup	Warning	2/10/2021 7:15 PM	2/10/2021 7:24 PM
💫 Kuali Backup (Incremental)	Backup	Success	2/10/2021 7:00 PM	2/10/2021 7:08 PM
SQL Servers Backup (Incremental)	Backup	Success	2/10/2021 5:00 PM	2/10/2021 5:07 PM
🗅 Monthly ITI Servers Backup (Full)	Backup	Warning	2/10/2021 10:15 AM	2/10/2021 12:01 PM
local Monthly File Servers Backup (Full)	Backup	Success	2/10/2021 10:14 AM	2/10/2021 4:21 PM

### Verificación por medio de emails

### Ejemplos de información recibida mediante correos electrónicos

A new ticket has been assigned to you. Please follow the link below to view the ticket.

[Success] File Servers	Backup (3 i	machines)						
Backup job: File Created by SAGRADO	Servers E	<mark>васкир</mark> 2019 12:46 РМ.						Success 3 of 3 VMs processed
Thursday, Februar	y 11, 2021	11:30:03 PM						
Success	3	Start time	11:30:03 PM	Total size	2.3 TB	Backup size	5.8 GB	
Warning	0	End time	11:36:57 PM	Data read	12.4 GB	Dedupe	1.0x	
Error	0	Duration	0:06:53	Transferred	5.4 GB	Compression	2.0x	
Details								
Name	Status	Start time	End time	Size	Read	Transferred	Duration	Details
powervault01.sagrado.edu	Success	11:31:36 PM	11:36:48 PM	500.0 GB	8.5 GB	4.2 GB	0:05:12	
USC-FileServer	Success	11:31:36 PM	11:33:32 PM	1012.0 GB	1.2 GB	285.3 MB	0:01:55	
usc-fs-asi	Success	11:31:36 PM	11:36:37 PM	877.0 GB	2.8 GB	923.7 MB	0:05:01	

[Success] In	epro Backup	(2	machines)
--------------	-------------	----	-----------

Back Create	up job: Ine d by SAGRADO	Success 2 of 2 VMs processed											
Thursday, February 11, 2021 11:00:16 PM													
Success	2	Start time	11:00:16 PM	Total size	800.0 GB	Backup size	10.0 GB						
Warning	0	End time	11:14:06 PM	Data read	27.6 GB	Dedupe	1.0x						
Error	0	Duration	0:13:50	Transferred	9.0 GB	Compression	2.7x						
Detai	s												
Name	Status	Start time	End time	Size	Read	Transferred	Duration	Details					
USC- Inepro	Success	11:02:13 PM	11:09:52 PM	500.0 GB	2.0 GB	600.7 MB	0:07:38						
USC- Inepro- SQL	Success	11:02:13 PM	11:13:58 PM	300.0 GB	25.6 GB	8.4 GB	0:11:45						

#### [Success] SCCM Backup (2 machines) Backup job: SCCM Backup Success Created by SAGRADO\bi at 2/9/2020 9:57 PM. 2 of 2 VMs processed Thursday, February 11, 2021 10:00:13 PM Success 2 Start time 10:00:13 PM Total size 2.3 TB Backup size 10.7 GB Warning 0 End time 10:22:21 PM Data read Duration 0:22:08 Transferred 40.4 GB Dedupe 1.0x Compression 3.7x Transferred 9.5 GB Error 0 Details Name Status Start time End time Size Read Transferred Duration Details USC- Success SCCM 10:03:54 PM 10:13:37 PM 1.4 TB 13.4 GB 2.8 GB 0:09:43 USC-SQL-SCCM 10:10:45 PM 10:22:12 PM 975.0 GB 27.0 GB 6.7 GB 0:11:26

#### [Warning] Service Desks Backup (2 machines) 1 warning

Thursday, February	11, 2021 1	1:00:16 PM						
Success	1	Start time	11:00:16 PM	Total size	600.0 GB	Backup size	19.9 GB	
Warning	1	End time	11:15:25 PM	Data read	35.7 GB	Dedupe	1.1x	
Error	0	Duration	0:15:09	Transferred	18.8 GB	Compression	1.4x	
Details								
Name	Status	Start time	End time	Size	Read	Transferred	Duration	Details
servicedeskplus.sagrado.edu	Warning	11:00:58 PM	11:15:17 PM	350.0 GB	26.8 GB	15.9 GB	0:14:18	Production drive C:\ClusterStorage\Volume1 is getting low on free space (194.3 GB left), and may run out of free disk space completely due to open snapshots.
serviciosics.sagrado.edu	Success	11:00:59 PM	11:06:09 PM	250.0 GB	8.9 GB	2.9 GB	0:05:10	

Veeam Backup & Replication 9.5.4.2866

#### [Warning] Other Apps Backup (12 machines) 3 warnings

#### Backup job: Other Apps Backup Created by SAGRADO\bi at 9/18/2019 11:21 A

#### Warning

12 of 12 VMs proce

#### Thursday, February 11, 2021 10:00:13 PM

Success	9	Start time	10:00:13 PM	Total size	1.7 TB	Backup size	15.3 GB						
Warning	3	End time	10:19:42 PM	Data read	38.0 GB	Dedupe	1.1x						
Error	0	Duration	0:19:28	Transferred	14.2 GB	Compression	2.3x						
Details													
Name	Status	Start time	End time	Size	Read	Transferred	Duration	Details					
Crimelog.sagrado.edu	Success	10:09:44 PM	10:14:07 PM	60.0 GB	6.0 GB	2.2 GB	0:04:23						
Niagara-SRV	Success	10:09:49 PM	10:14:03 PM	80.0 GB	3.7 GB	1.3 GB	0:04:14						
poiseftp.sagrado.edu	Success	10:11:44 PM	10:15:52 PM	278.9 GB	2.1 GB	714.2 MB	0:04:07						
Redis-V.sagrado.edu	Success	10:02:22 PM	10:04:48 PM	232.9 GB	486.9 MB	129.7 MB	0:02:26						
regentap.sagrado.edu	Success	10:04:12 PM	10:06:57 PM	68.3 GB	1.3 GB	562.9 MB	0:02:44						
regentdb.sagrado.edu	Success	10:04:52 PM	10:08:08 PM	279.4 GB	3.8 GB	1.1 GB	0:03:15						
sagrado- ae.sagrado.edu	Warning	10:06:43 PM	10:09:43 PM	140.0 GB	2.6 GB	1014.3 MB	0:02:59	Production drive C:\ClusterStorage\Volume1 is getting low on free space (193.0 GB left), and may run out of free disk space completely due to open snapshots.					
senseap1.sagrado.edu	Success	10:07:23 PM	10:09:42 PM	136.1 GB	1.5 GB	363.4 MB	0:02:18						
USC-APPS	Success	10:11:45 PM	10:17:52 PM	127.0 GB	10.1 GB	5.1 GB	0:06:07						
USC-Federal-Signal	Warning	10:14:00 PM	10:17:50 PM	127.0 GB	2.9 GB	723.9 MB	0:03:49	Production drive C:\ClusterStorage\Volume1 is getting low on free space (194.3 GB left), and may run out of free disk space completely due to open snapshots.					
USC-Inflow-SQL	Warning	10:08:28 PM	10:12:19 PM	100.0 GB	2.5 GB	871.8 MB	0:03:51	Production drive C:\ClusterStorage\Volume1 is getting low on free space (194.1 GB left), and may run out of free disk space completely due to open snapshots.					
USC-Sensaphone	Success	10:09:19 PM	10:11:41 PM	127.0 GB	1011.6 MB	328.9 MB	0:02:22						

#### [Warning] ITI Servers Backup (4 machines) 1 warning

#### Backup job: ITI Servers Backup Created by SAGRADO\bi at 9/18/2019 11:53 AM.

Thursday, February 11, 2021 10:00:13 PM 3 Start time 10:00:13 PM 456.1 GB Backup size 6.3 GB Success Total size Warning 10:13:20 PM Dedupe 1.1x End time Data read 46.0 GB 1 Compression 2.2x Duration 0:13:06 Transferred 5.8 GB Error 0 Details Name Status Start time End time Size Read Transferred Duration Details Changed block tracking will not be used for this VM until you upgrade VM hardware version to 8.0 or later. command-srv.sagrado.edu 10:01:14 PM 10:12:59 PM 100.0 GB 31.7 GB 1.0 MB 0:11:45 Warning exalumnosap.sagrado.edu Success 10:01:14 PM 10:05:07 PM 49.1 KB 0:03:53 80.0 GB 4.2 MB 10:01:14 PM 10:07:14 PM 10:01:14 PM 10:07:01 PM USC-AzureAD Success 127.0 GB 8.9 GB 4.5 GB 0:05:59 uscintra.sagrado.edu Success 149.1 GB 5.3 GB 1.4 GB 0:05:47

#### [Warning] Ethority Backup (4 machines) 2 warnings

Thursday, February 11, 2021 7:15:13 PM													
Success	2	Start time	7:15:13 PM	Total size	860.0 GB	Backup size	7.2 GB						
Warning	2	End time	7:24:31 PM	Data read	18.0 GB	Dedupe	1.1x						
Error	0	Duration	0:09:17	Transferred	6.6 GB	Compression	2.4x						
Details													
Name	Status	Start time	End time	Size	Read	Transferred	Duration	Details					
ethorityap01.sagrado.edu	Success	7:16:50 PM	7:22:48 PM	120.0 GB	1.5 GB	299.3 MB	0:05:57						
ethorityfs01.sagrado.edu	Success	7:16:50 PM	7:20:25 PM	120.0 GB	1.7 GB	294.4 MB	0:03:35						
ethoritysql.sagrado.edu	Warning	7:16:50 PM	7:24:25 PM	500.0 GB	13.4 GB	5.7 GB	0:07:35	Production drive C:\ClusterStorage\Volume1 is getting low on free space (194.3 GB left), and may run out of free disk space completely due to open snapshots.					
ethoritysvc.sagrado.edu	Warning	7:16:50 PM	7:21:50 PM	120.0 GB	1.4 GB	341.4 MB	0:04:59	Production drive C:\ClusterStorage\Volume1 is getting low on free space (194.3 GB left), and may run out of free disk space completely due to open snapshots.					

[Success] Kuali Backup (7 machines)												
Backup job: Kua Created by SAGRADO	Success 7 of 7 VMs processed											
Thursday, February 11, 2021 7:00:09 PM												
Success	7	Start time	7:00:09 PM	Total size	1020.1 GB	Backup size	3.2 GB					
Warning	0	End time	7:08:32 PM	Data read	12.2 GB	Dedupe	1.0x					
Error	0	Duration	0:08:22	Transferred	2.7 GB	Compression	3.8x					
Details												
Name	Status	Start time	End time	Size	Read	Transferred	Duration	Details				
dev-db.kuali.sagrado.edu	Success	7:01:35 PM	7:08:21 PM	160.0 GB	10.1 GB	2.3 GB	0:06:45					
jenkins.kuali.sagrado.edu	Success	7:01:35 PM	7:04:10 PM	200.0 GB	184.9 MB	22.3 MB	0:02:35					
new_cas01.sagrado.edu	Success	7:04:26 PM	7:06:58 PM	40.0 GB	279.8 MB	45.3 MB	0:02:32					
new_prd1- db.kualli.sagrado.edu	Success	7:01:35 PM	7:03:08 PM	240.0 GB	8.8 MB	106.1 KB	0:01:32					
prd1.kfs.sagrado.edu	Success	7:01:35 PM	7:04:23 PM	240.0 GB	1020.5 MB	288.5 MB	0:02:48					
trn.kfs.sagrado.edu	Success	7:03:16 PM	7:06:17 PM	40.0 GB	171.8 MB	22.8 MB	0:03:01					
tst.kfs.sagrado.edu	Success	7:04:21 PM	7:06:48 PM	100.0 GB	504.8 MB	57.2 MB	0:02:26					

[Success] SQL Se	rvers Backı	up (5 machines)						
Backup job: Created by SAGR	SQL Serve ADO\bi at 9	ers Backup /18/2019 12:42	РМ.					Success 5 of 5 VMs processed
Thursday, Feb	ruary 11, 2	2021 5:00:02 F	РМ					
Success	5	Start time	5:00:02 PM	Total size	1.3 TB	Backup size	3.9 GB	
Warning	0	End time	5:06:26 PM	Data read	10.4 GB	Dedupe	1.0x	
Error	0	Duration	0:06:23	Transferred	3.6 GB	Compression	2.6x	
Details								
Name	Status	Start time	End time	Size	Read	Transferred	Duration	Details
sql2008.sagrado.edu	Success	5:01:35 PM	5:05:32 PM	745.1 GB	2.9 GB	1.5 GB	0:03:57	
sql2016	Success	5:01:35 PM	5:05:13 PM	127.0 GB	2.0 GB	559.5 MB	0:03:38	
sql2017	Success	5:01:35 PM	5:05:13 PM	160.0 GB	2.3 GB	604.5 MB	0:03:37	
USC-Prophix	Success	5:01:35 PM	5:03:18 PM	150.0 GB	1.4 GB	430.8 MB	0:01:43	
USC-WebTransaction	Success	5:03:25 PM	5:06:16 PM	127.0 GB	1.7 GB	517.2 MB	0:02:51	

### Evidencia de mantenimiento de resguardos

A	vanced Settings	<
	ackup Maintenance Storage Notifications Hyper-V Scripts	]
	Storage-level corruption guard	
	Manthly and Last Evideus and auto-nears condition)	
	Wighthy on: Last V Friday V Months	
	Friday	

## Proceso de verificación manual de resguardos

Para poder hacer las verificaciones de los resguardos la herramienta de Veeam nos provee la opción de restaurar las maquinas virtuales en su lugar de almacenamiento. Lo hacemos sin activar la tarjeta de red para evitar duplicidad de la maquina en la red.

HOME	Q Type in an object name to search for	×			
4 🐁 Jobs	JOB NAME	CREATION TIME	RESTORE POINTS 1	REPOSITORY	PLATFORM
ackup	Document Imaging and Printers Backup	2/13/2021 8:00 PM		Synology Repository	Hyper-V
檔 Backup Copy	ricohprinters.sagrado.edu	2/22/2021 8:02 PM	9		
a 📑 Backups	USC-Digital-Rep	2/22/2021 8:02 PM	9		
📥 Disk	USC-Digital-SQL	2/22/2021 8:02 PM	9		
📩 Cloud	USC-SMTPRelay	2/22/2021 8:04 PM	9		
<ul> <li>Last 24 Hours</li> </ul>	Ethority Backup	2/13/2021 7:16 PM		Synology Repository	Hyper-V
🐴 Running (1)	File Servers Backup	2/6/2021 11:31 PM		Synology Repository	Hyper-V
🔯 Success	Inepro Backup	2/6/2021 11:01 PM		Synology Repository	Hyper-V
🙀 Warning	ITI Servers Backup	2/6/2021 1:01 PM		Synology Repository	Hyper-V
🙀 Failed	Kuali Backup	2/6/2021 7:01 PM		Synology Repository	Hyper-V
	Monthly Document Imaging and Printers B	2/9/2021 10:12 AM		Synology Repository	Hyper-V
	Monthly File Servers Backup	2/10/2021 10:16 AM		Synology Repository	Hyper-V
	Monthly Inepro Backup	2/11/2021 10:47 AM		Synology Repository	Hyper-V
	Monthly ITI Servers Backup	2/10/2021 10:15 AM		Synology Repository	Hyper-V
	Monthly Kuali Backup	2/13/2021 5:01 PM		Synology Repository	Hyper-V
	Monthly Other Apps Backup	2/12/2021 10:48 AM		Synology Repository	Hyper-V
	Monthly SCCM Backup	2/9/2021 10:13 AM		SCCM Veeam Repository	Hyper-V
	Monthly Service Desks Backup	2/11/2021 10:46 AM		Synology Repository	Hyper-V
	Monthly SQL Servers Backup	2/11/2021 10:57 AM		Synology Repository	Hyper-V
	Other Apps Backup	2/13/2021 10:01 PM		Synology Repository	Hyper-V
	SCCM Backup	2/6/2021 10:03 PM		SCCM Veeam Repository	Hyper-V
	Service Desks Backup	2/6/2021 11:00 PM		Synology Repository	Hyper-V
	SQL Servers Backup	2/6/2021 5:01 PM		Synology Repository	Hyper-V

1. El primer paso vamos a seleccionar la maquina virtual que vamos a restaurar.

### 2. Le damos *right-click* a la máquina virtual y seleccionamos *Instant VM Recovery*

	OB NAME CRE	ATION TIME	RESTORE POINTS	REPOSITORY	PLATFORM
4	Document Imaging and Printers Backup 2/13	3/2021 8:00 PM		Synology Repository	Hyper-V
	ricohprinters.sagrado.edu 2/22	2/2021 8:02 PM	9		
	USC-Digital-Rep 2/22	2/2021 8:02 PM	9		
	USC-Digital-SQL 2/22	2/2021 8:02 PM	9		
	USC-SMT	2021 8:04 PM	9		
⊳	Ethority Back	2021 7:16 PM		Synology Repository	Hyper-V
⊳	🖄 File Servers B 🔚 Restore entire VM	021 11:31 PM		Synology Repository	Hyper-V
⊳	🖄 Inepro Backu 🔊 🛛 Restore VM files	021 11:01 PM		Synology Repository	Hyper-V
⊳	💾 ITI Servers Ba 🎦 Restore guest files 🛛 🔸	021 1:01 PM		Synology Repository	Hyper-V
⊳	Kuali Backup	021 7:01 PM		Synology Repository	Hyper-V
⊳	Monthly Do	021 10:12 AM		Synology Repository	Hyper-V
⊳	Monthly File	2021 10:16 AM		Synology Repository	Hyper-V
⊳	🖄 Monthly Ine; 📄 Export backup	2021 10:47 AM		Synology Repository	Hyper-V
⊳	💾 Monthly ITI 🤋 🙀 🛛 Delete from disk	2021 10:15 AM		Synology Repository	Hyper-V
⊳	Monthly Kuali Backup 2/1	\$72021 5:01 PM		Synology Repository	Hyper-V
⊳	Monthly Other Apps Backup 2/12	2/2021 10:48 AM		Synology Repository	Hyper-V

3. En la ventana que se abrirá veremos la maquina virtual y tenemos la opción de seleccionar puntos de restauración en el pasado en *Points*. En ese caso usaremos el punto mas reciente que es el predeterminado. Presionamos *Next* 

Machines				
Select machin	es to be restored. You can add individ	ual machines fro	m backup files, or containers from live	environment
(containers wi	ili be automatically expanded to plain	list).		
Aachines	Machines to restore:			
in the second	O Type in machine name	for instant looku	p	
ecovery Mode				_
ecure Restore	Name	Size	Restore point	Add
	USC-SMTPRelay	25.7 GB	less than a day ago (8:04 PM	Point
eason				
immary				Kemove
·				
	-			

4. En esta ventana podemos escoger restaurar la maquina virtual a otra localización por ejemplo si queremos restaurarla en otro storage o host virtual lo podemos escoger. Para la prueba lo cambiamos a *Restore to a new VM Location, or with different settings*.

Instant VM Recovery	X			
Recovery Mode Specify the ultimat	e destination for the instantly recovered machine.			
Machines Recovery Mode	Restore to the original location Quickly initiate the restore of selected VM to its original location, with the original name and settings. This option minimizes the chance of user input error.			
Host	Restore to a new location, or with different settings			
Datastore Customize the restored VM location, and change its settings. The wizard will automatically all controls with the original VM settings as the defaults.				
Network				
Name				
Secure Restore				
Reason				
Summary				
	< Previous Next > Finish Cancel			

5. Podemos seleccionar el Host, para la prueba se deja en el predeterminado

Instant VM Recovery			×
Host Select the host to rec	over machine to.		
Machines	VM location:		
<b>D</b>	Name	Host	Cluster Resource
Recovery Mode	USC-SMTPRelay	疆 USC-HOST2	Yes
Host			
Datastore			
Network			
Name			
Secure Restore			
Reason			
Summary			
	Select multiple VMs and click	Host to apply changes in bulk.	Host Resource
		< Previous Next >	Finish Cancel

6. Podemos seleccionar el *storage* de la máquina virtual

Instant VM Recovery				>
Datastore Select the volu	mes where machine configuration and virtual	disks files should	be ultimately restored to.	
Machines	Files location:			
	File	Size	Path	
Recovery Mode	USC-SMTPRelay			
Host	Configuration files		C:\ClusterStorage\Volume2\USC-S	
	USC-SMTPRelay.vhdx	25.7 GB	C:\ClusterStorage\Volume2\USC-S	
Datastore				
Network				
Name				
Secure Restore				
Reason				
Summary				
	Select multiple VMs and click Path to	apply changes in	bulk. Path	
		< Previous	Next > Finish Cancel	I

7. En la pantalla de network si vamos a hacer pruebas tenemos que desconectar las conexiones de red presionando disconect.

Instant VM Recovery		:
Network Select how virtual ne	tworks map to each other between original and	new VM locations.
Machines	Network connections:	
Pocovon Modo	Source	Target
Recovery Mode	USC-SMTPRelay	
Host	Servers Virtual Switch	Servers Virtual Switch
Datastore		
Network		
Name		
Secure Restore		
Reason		
Summary		
	Select multiple VMs to apply settings change	in bulk. Network Disconnect
	< P	Previous Next > Finish Cancel

8. En el área del Nombre seleccionamos la Maquina virtual y presionamos en *Name* y le cambiamos el nombre para saber que es la copia.

Instant VM Recovery			×
Name Specify the new virtu	al machine name, and whethe	r you would like unique identifier pre	served.
Machines	Virtual machines:		
Pacavany Mada	Name	New name	VM UUID
Recovery wode	USC-SMTPRelay	USC-SMTPRelay_restored	Create new
Host			
Datastore			
Network			
Name			
Secure Restore			
Reason			
Summary			
	Select multiple VMs to apply	/ settings change in bulk.	Name VM UUID
		< Previous Nex	t > Finish Cancel

La próxima opción se utiliza en el caso que el servidor allá sido atacado por un *Malware* o *Cryptoware*.
 La misma nos da la opción de verificar el backup contra Malware. Como es una restauración normal no la usaremos y presionamos *Next*

Instant VM Recovery	×
Secure Restore Scan the selected ba compatible antivirus	ckup for malware, such as computer viruses or ransomware, prior to performing the restore. This requires a installed on the mount server specified for the corresponding backup repository.
Machines Recovery Mode	Scan the restored machine for malware prior to performing the recovery The machine you are about to restore will be scanned by antivirus software installed on the mount server to prevent a risk of bringing malware into your environment.
Secure Restore	If malware is found:
Reason	<ul> <li>Proceed with recovery but disable network adapters</li> <li>Abort VM recovery</li> </ul>
Summary	Scan the entire image Continue scanning remaining files after the first malware has been found.
	< Previous Next > Finish Cancel

10. Ahora podemos escribir una razón por la cual se está creado la restauración.

Instant VM Recovery			×
Name Specify the new	virtual machine name, and whethe	r you would like unique identifier pre	eserved.
Machines	Virtual machines:		
	Name	New name	VM UUID
Recovery Mode	USC-SMTPRelay	USC-SMTPRelay_restored	Create new
Host			
Datastore			
Network			
Name			
Secure Restore			
Reason			
Summary			
	Select multiple VMs to apply	y settings change in bulk.	Name VM UUID
		< Previous Nex	t > Finish Cancel

11. Ahora podemos finalizar el proceso y esperar que culmine el mismo para poder ver nuestra máquina virtual.

Instant VM Recovery	X
Summary You can copy this co	onfiguration information for the future reference.
Machines Recovery Mode Host Datastore Network Name Secure Restore Reason	Summary: Original VM name: USC-SMTPRelay Target VM name: USC-SMTPRelay_restored Target host: USC-HOST2
Summary	✓ Power on target VM after restoring
	< Previous Next > Finish Cancel

12. En nuestro menú ahora tenemos una opción nueva que se llama *Instant Recovery* y podemos ver estado de la restauración.

HOME	VM NAME	HOST	RESTORE POINT	STATUS	BACKUP NAME
	USC-SMTPRelay_res	USC-HOST2	2/22/2021 8:04:58 PM	Mounted	Document Imaging and Printers Backup
<ul> <li>Instant Recovery (1)</li> <li>Jobs</li> <li>Backup</li> <li>Backup Copy</li> <li>Backup S</li> <li>Cloud</li> <li>Isk</li> <li>Cloud</li> <li>Ist 24 Hours</li> <li>Running (1)</li> <li>Success</li> <li>Warning</li> <li>Failed</li> </ul>					



13. Desde ahí podemos conectarnos a la Maquina virtual y verificarla antes de moverla a producción.