

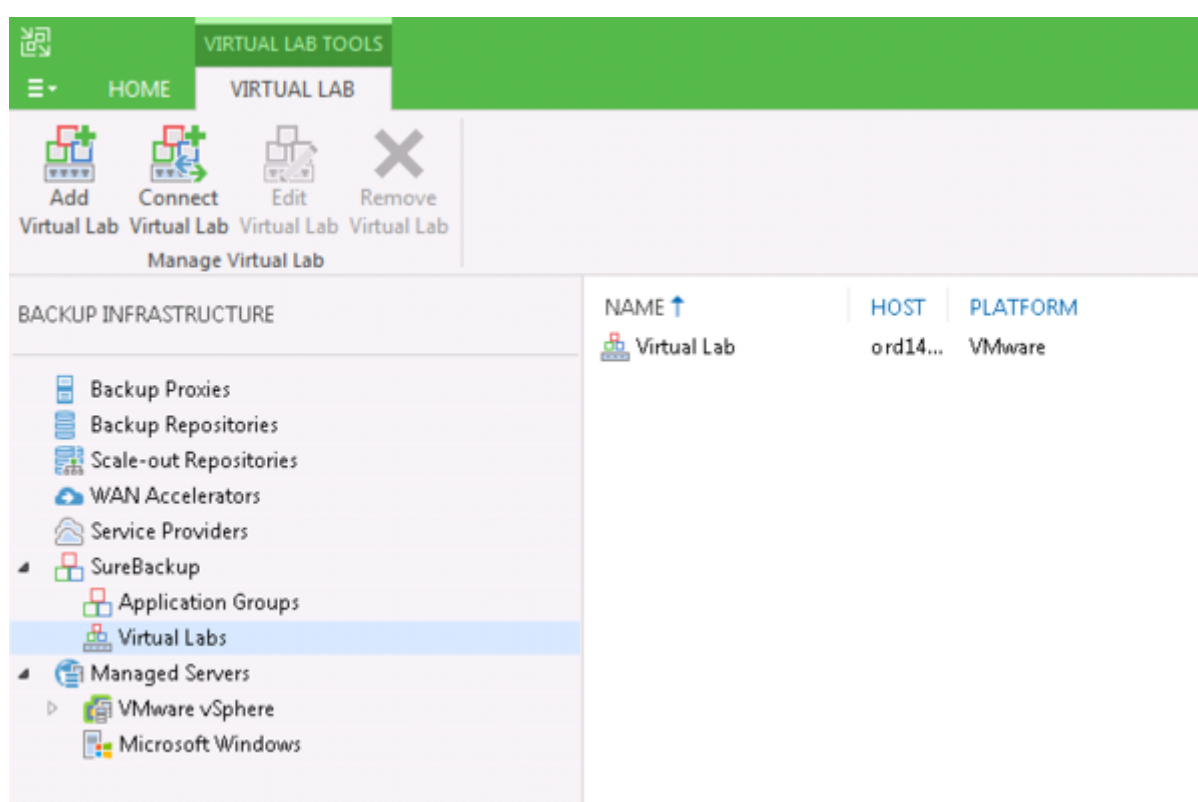
[veeam](#), [virtual](#), [lab](#), [vsphere](#), [vmware](#)

Virtual Lab de Veeam

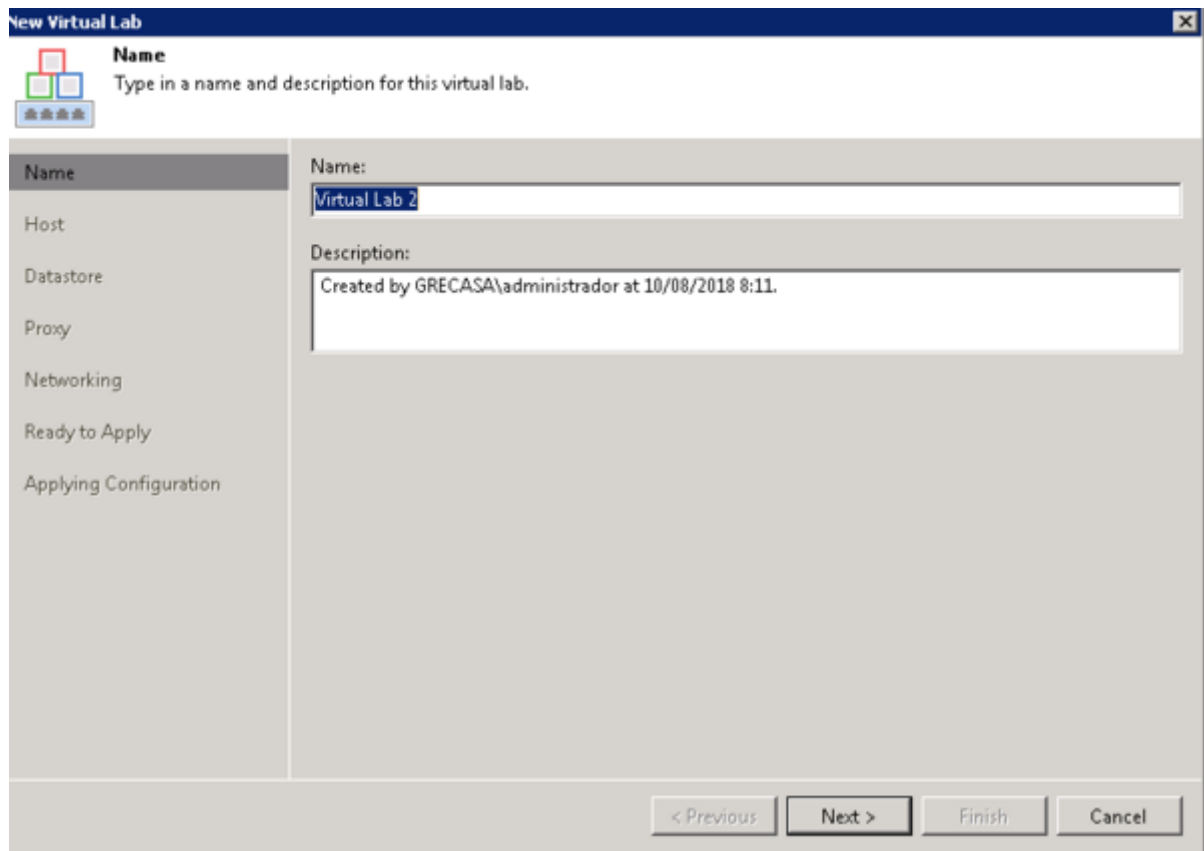
Una de las funciones menos aprovechadas de veeam backup son los **Virtual Labs**. Con los virtual labs de Veeam no sólo podremos verificar los backups realizados, también podemos levantar una replica de alguna de las máquinas virtuales que tengamos, hacer pruebas y verificar cambios antes de realizarlos sobre la máquina en producción.

Creación del Virtual Lab

Para empezar a usar esta funcionalidad lo primero que tenemos que hacer es crear un **Virtual Labs** dentro de la opción Backup Infrastructure → SureBackup. → Virtual Labs



Pulsamos el botón **Add Virtual Lab** y se no abrirá una nueva ventana



New Virtual Lab

Name
Type in a name and description for this virtual lab.

★★★★★

Name
Virtual Lab 2

Description:
Created by GRECASA\administrador at 10/08/2018 8:11.

Host
Datastore
Proxy
Networking
Ready to Apply
Applying Configuration

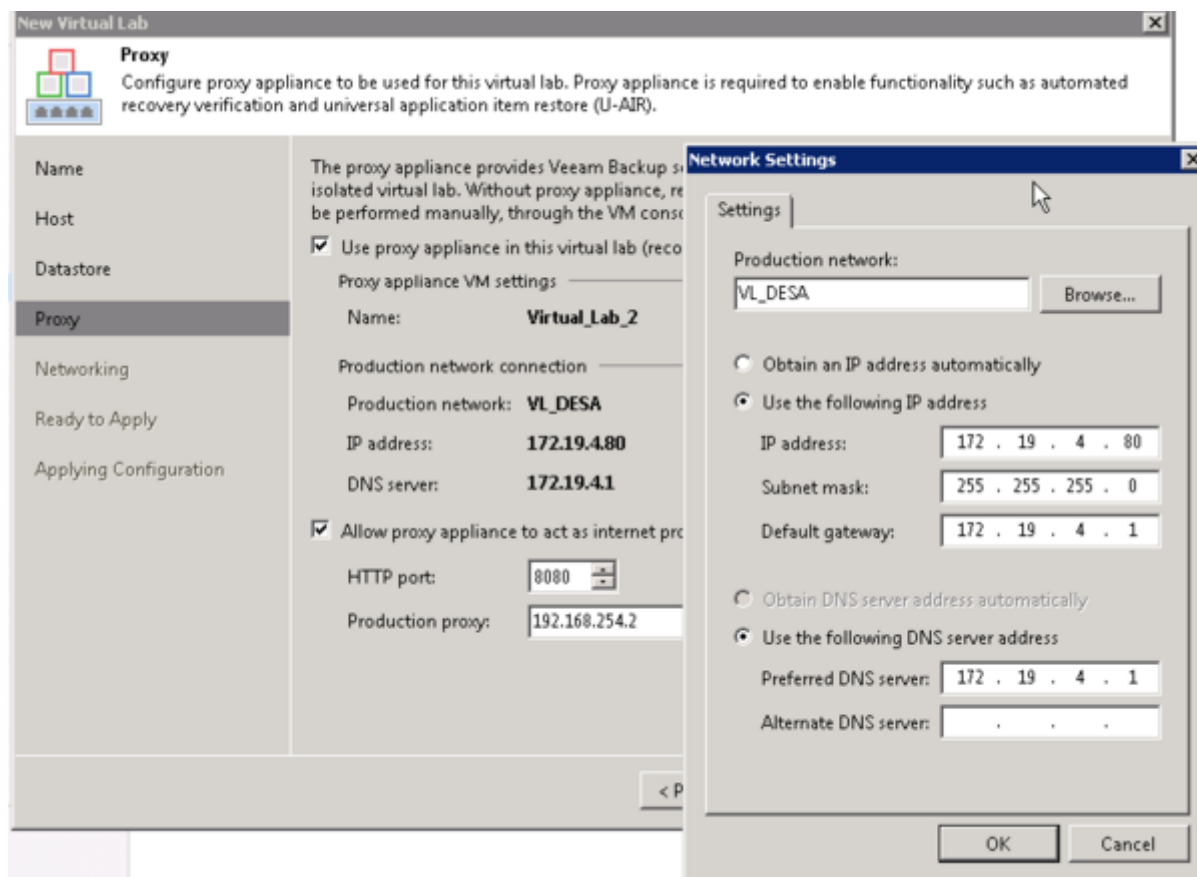
< Previous Next > Finish Cancel

Seleccionamos el host ESXi y el datastore donde vamos a crear el laboratorio.

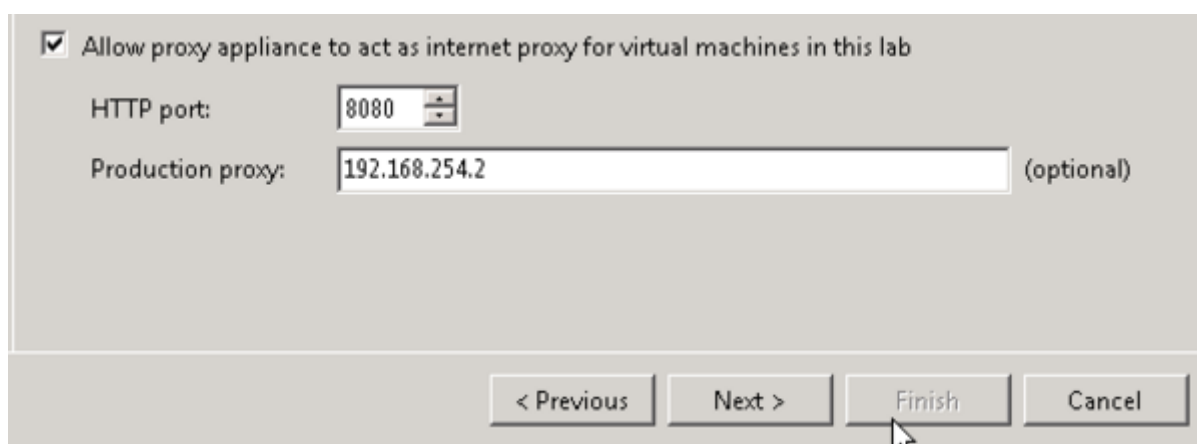
Definimos los parámetros de la máquina virtual (proxy), que va a hacer de intermediario entre el entorno real y las máquinas que corran en la red de los laboratorios .



La red de los laboratorios está aislada, y el único punto de enlace será a través de esta mv proxy que se crea




Como a su vez quiero que las máquinas de los laboratorios puedan conectar a internet a través de esta, marcamos la casilla **Allow proxy appliance to act as internet proxy for virtual machines in this lab** y definimos los parámetros de nuestro internet proxy de producción.



En el siguiente apartado definiremos los parámetros de la red para los laboratorios

New Virtual Lab

 **Networking**

Specify whether the virtual machines to be run in this virtual lab are connected to a single, or multiple production networks.

Name	<p><input type="radio"/> Basic single-host (automatic configuration)</p> <p>Automatic configuration of virtual lab networking. Isolated network is created using parameters of network that the Veeam Backup server is located in, which is assumed to be production network. Recommended option for configurations with a single production network.</p> <p><input checked="" type="radio"/> Advanced single-host (manual configuration)</p> <p>Manual configuration of virtual lab networking. Recommended for advanced scenarios, when some production virtual machines have dependencies on virtual machines located in different networks. This option also enables access to additional networking configuration settings.</p> <p><input type="radio"/> Advanced multi-host (manual configuration)</p> <p>Manual configuration of virtual lab networking that enables creation of virtual labs spanning multiple hosts, enabling for virtual labs for replicas located on different hosts with non-shared storage. This option leverages Distributed Virtual Switch (VDS) available in Enterprise Plus edition of VMware vSphere.</p>
Host	
Datastore	
Proxy	
Networking	
Isolated Networks	
Network Settings	
Static Mapping	
Ready to Apply	
Applying Configuration	

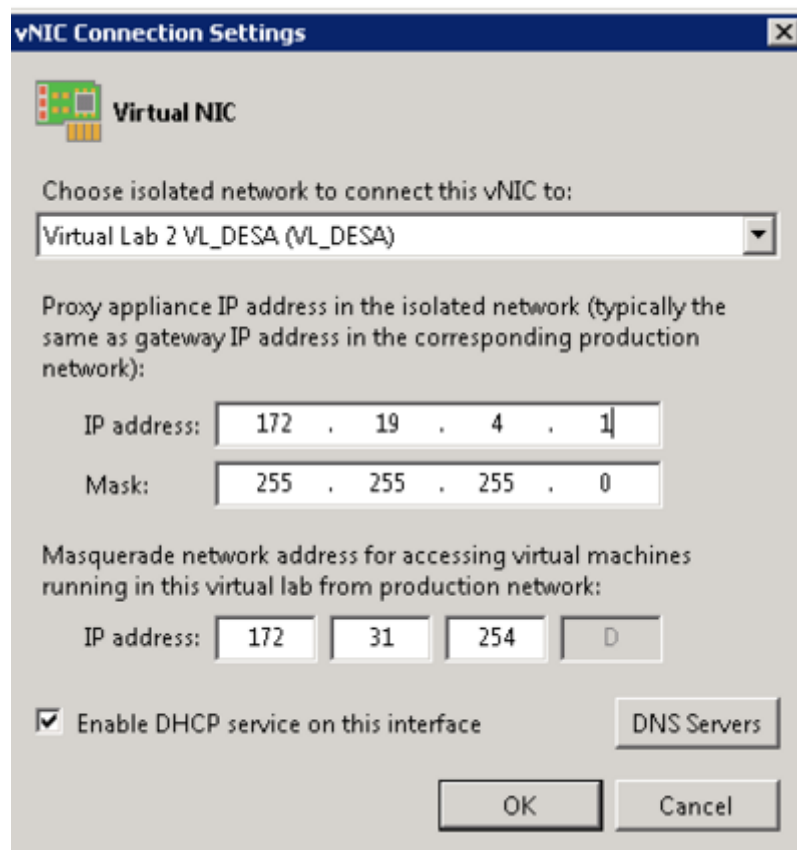
Distributed virtual switch: none Choose...

< Previous Next > Finish Cancel

Seleccionamos la opción **Advanced single-host(manual configuration)** para definir manualmente los parámetros . Definiendo la red de producción y la red de los laboratorios

[illegible]

Definimos los parámetros de conexión de las redes de los laboratorios con la mv proxy



vNIC Connection Settings

Virtual NIC

Choose isolated network to connect this vNIC to:
Virtual Lab 2 VL_DESA (VL_DESA)

Proxy appliance IP address in the isolated network (typically the same as gateway IP address in the corresponding production network):

IP address: 172 . 19 . 4 . 1
Mask: 255 . 255 . 255 . 0

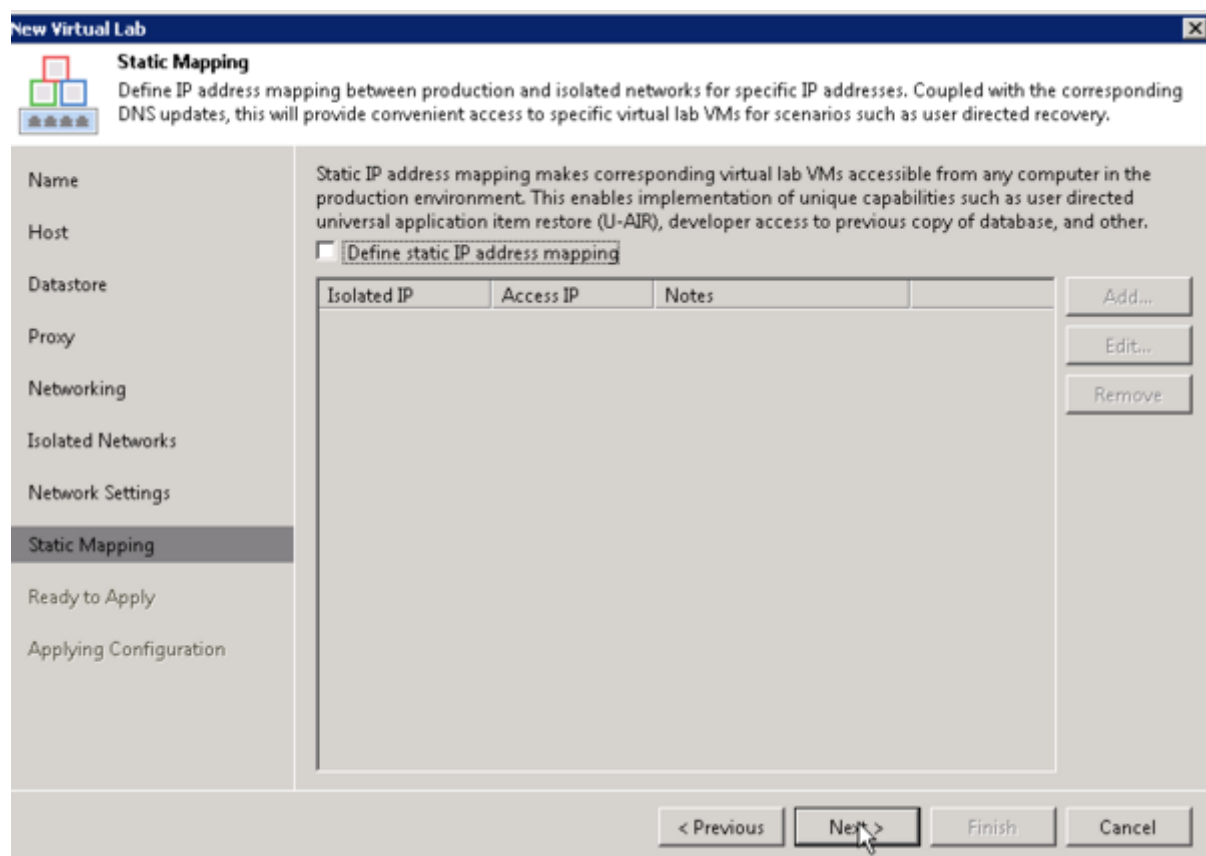
Masquerade network address for accessing virtual machines running in this virtual lab from production network:

IP address: 172 . 31 . 254 . 0

☒ Enable DHCP service on this interface DNS Servers

OK Cancel

Podemos definir mapeos de direcciones ip para hacer la máquina del laboratorio accesible desde la red de producción.



New Virtual Lab

Static Mapping
Define IP address mapping between production and isolated networks for specific IP addresses. Coupled with the corresponding DNS updates, this will provide convenient access to specific virtual lab VMs for scenarios such as user directed recovery.

Static IP address mapping makes corresponding virtual lab VMs accessible from any computer in the production environment. This enables implementation of unique capabilities such as user directed universal application item restore (U-AIR), developer access to previous copy of database, and other.

☐ Define static IP address mapping

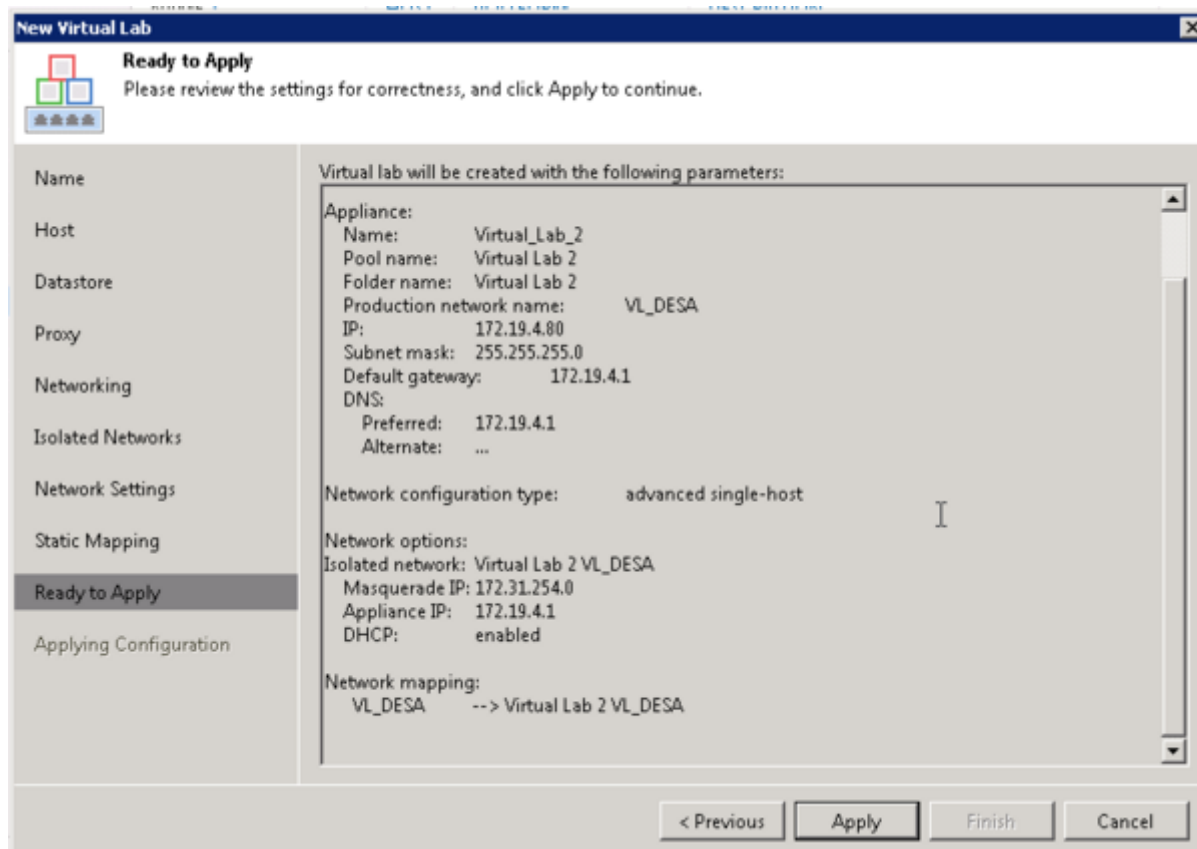
Isolated IP	Access IP	Notes
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Add...
Edit...
Remove

Static Mapping

Ready to Apply
Applying Configuration

< Previous Next > Finish Cancel

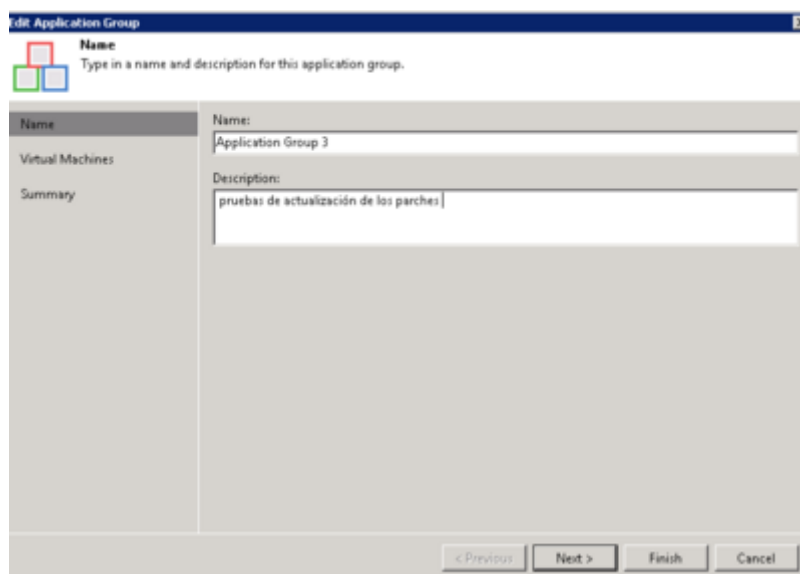


Creación del Application Group

Una vez creado el virtual lab necesitamos crear uno o varios **Application Group** con el tipo de chequeo que queramos realizar. Lo normal sería crear varios grupos para verificar máquinas por roles. Por ejemplo uno con los controladores de dominio, otro con los servidores de correo, etc.

En mi caso, como sólo quiero que la máquina arranque para hacer pruebas de instalación de parches, el único chequeo que voy a realizar es verificar que hay latido en la mv.

Pinchamos en crear un nuevo **Application Group**



Verification Options

Role | Startup Options | Test Scripts | Credentials

Select roles:

Role
<input type="checkbox"/> DNS Server
<input type="checkbox"/> Domain Controller (Authoritative Restore)
<input type="checkbox"/> Domain Controller (Non-Authoritative Restore)
<input type="checkbox"/> Global Catalog
<input type="checkbox"/> Mail Server
<input type="checkbox"/> SQL Server
<input type="checkbox"/> Veeam Backup for Microsoft Office 365
<input type="checkbox"/> Web Server

Startup options and test scripts will be automatically configured based on the roles you have selected. Review and adjust the recommended configuration on the corresponding tabs.

OK Cancel

Verification Options

Role | Startup Options | Test Scripts | Credentials

Memory —

Amount of memory to allocate to VM: 100 percent

Startup time —

Maximum allowed boot time: 600 sec

Application initialization timeout: 120 sec

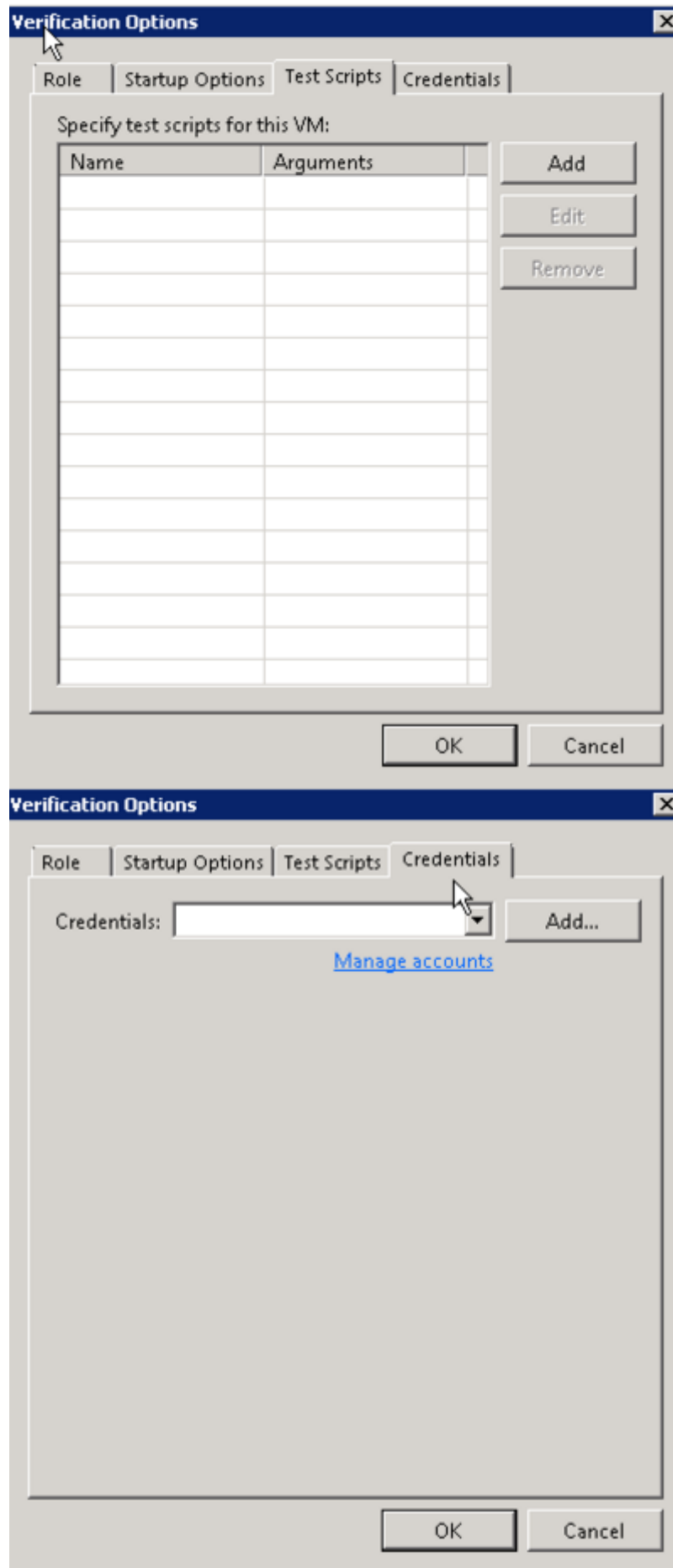
Boot verification —

Consider VM to have successfully booted when:

☒ VM heartbeat is present

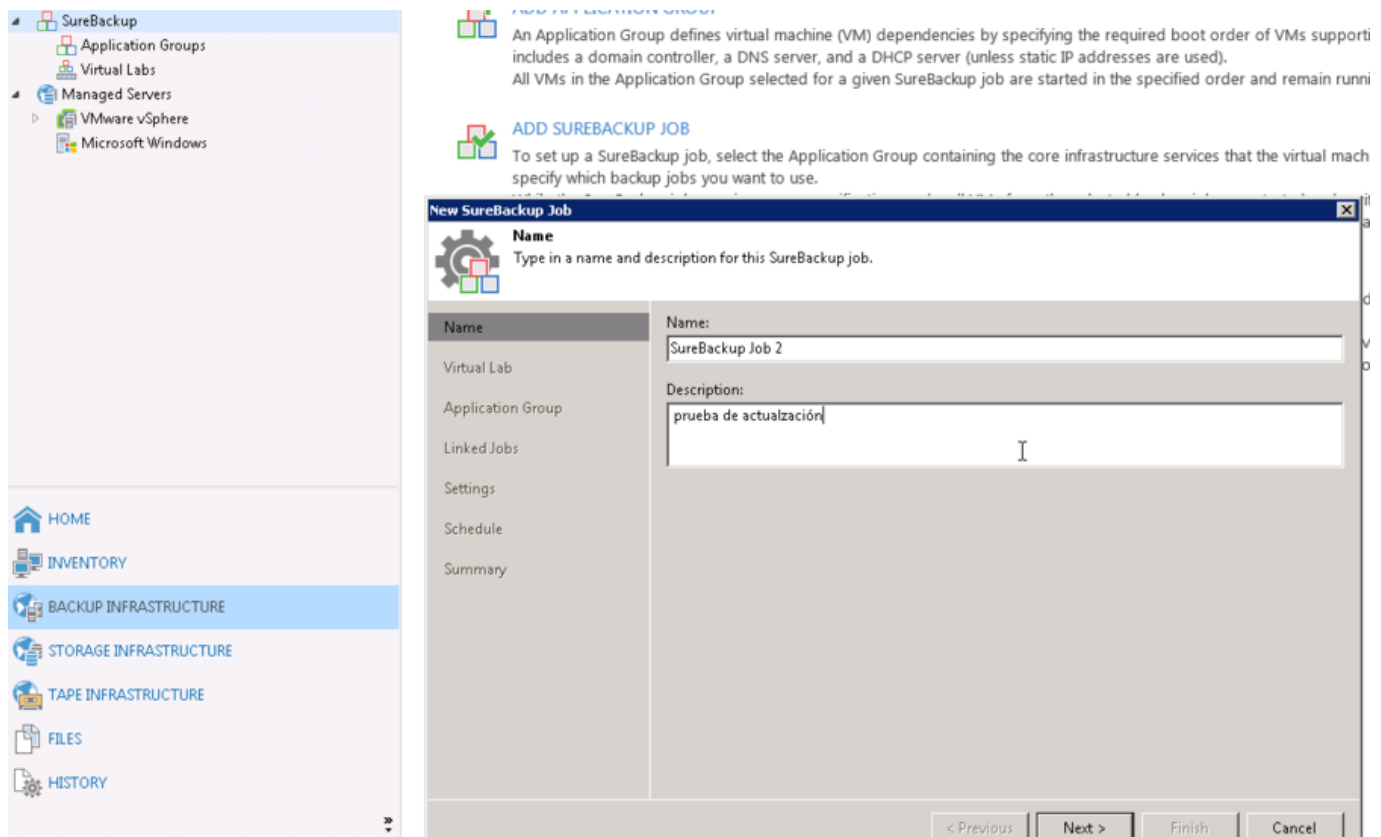
☐ VM responds to ping on any network interface

OK Cancel



Sure Backup Job

Por último, sólo faltaría crear la tarea en la que enlazaremos el **Virtual Lab** que hemos creado con el **Application Group**. Para ello vamos a la opción de menú **SureBackup** y pulsamos sobre **ADD SUREBACKUP JOB**



Seleccionamos nuestro Virtual Lab y el Application Group que habíamos creado y marcamos la opción **Keep the application group running after the job completes** para que no apague la máquina una vez comprobado el heartbeat y poder nosotros hacer las pruebas de instalación de parches

New SureBackup Job

Application Group
Choose the application group for this job and verify that all required backups are available.

Name
Virtual Lab
Application Group
Linked Jobs
Settings
Schedule
Summary

Application group:
No application group
Select an Application Group to see its statistics.

Application group info:

VM	Role	Source	Source Status

☐ Keep the application group running after the job completes
This option enables performing additional manual verification, or user-directed application item recovery for virtual machines in this application group.

< Previous Next > Finish Cancel

Podemos también enlazar alguno de los **Jobs** que tengas creados anteriormente en Veeam. Por ejemplo si ya tenemos creado otro SureBackup Job que comprueba alguna funcionalidad determinada.

Edit SureBackup Job [SureBackup Job 1]

Linked Jobs
Select one or more jobs to link to this SureBackup job. All virtual machines from the selected backup jobs will be processed sequentially once the specified application group is initialized.

Name
Virtual Lab
Application Group
Linked Jobs
Settings
Schedule
Summary

☒ Link jobs

Name	Role	Ping	Heartbeat
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Add...
Edit...
Remove

Process simultaneously up to: 3 VMs

Advanced

< Previous Next > Finish Cancel

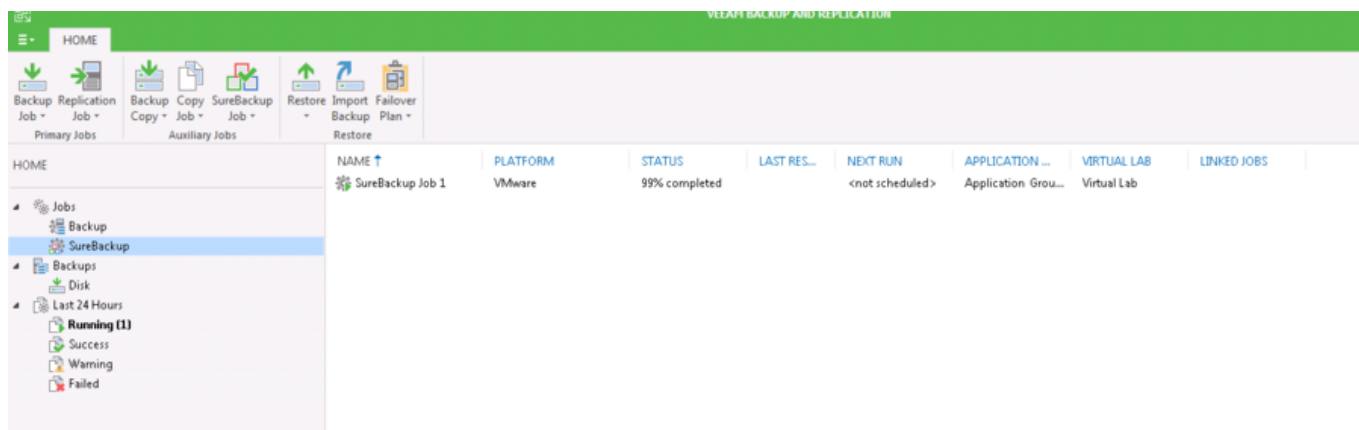
Especificamos los avisos

The screenshot shows the 'Settings' tab of the 'Edit SureBackup Job' window. The left sidebar contains a tree view with 'Settings' selected. The main area is titled 'Settings' and 'Choose DR verification job settings.' It contains two sections: 'Job results' and 'Backup file integrity check'. In the 'Job results' section, there is a checkbox for 'Send SNMP trap' (unchecked) and a checked checkbox for 'Send e-mail notifications to the following recipients:' with an empty text box below it. In the 'Backup file integrity check' section, there is a checkbox for 'Validate entire virtual disk contents (detects silent data corruption)' (unchecked) and a checked checkbox for 'Skip validation for application group VMs'. At the bottom right, there are four buttons: '< Previous', 'Next >', 'Finish', and 'Cancel'. A mouse cursor is pointing at the 'Next >' button.

Si queremos también podemos especificar una programación para lanzar el trabajo.

The screenshot shows the 'Schedule' tab of the 'Edit SureBackup Job' window. The left sidebar contains a tree view with 'Schedule' selected. The main area is titled 'Schedule' and 'Specify scheduling settings if you want this SureBackup job to run periodically in an automated fashion.' It contains a checkbox for 'Run the job automatically' (unchecked). Below it, there are three radio button options: 'Daily at this time:' (selected) with a time field set to '22:00' and a frequency dropdown set to 'Everyday'; 'Monthly at this time:' with a time field set to '22:00', a frequency dropdown set to 'Fourth', and a day dropdown set to 'sábado'; and 'After this job:' with a dropdown menu showing 'Backup Linux PRO (Created by GRECASA)\administrador at 26/04/2016'. Below these options, there is a section titled 'Wait for backup jobs' with a checked checkbox for 'If some linked backup jobs are still running, wait for up to:' and a spinner box set to '180' minutes. At the bottom right, there are four buttons: '< Previous', 'Apply', 'Finish', and 'Cancel'. A mouse cursor is pointing at the 'Apply' button.

Una vez creado el trabajo los podemos programar o lanzar manualmente en cualquier momento desde el menú **HOME → Jobs → SureBackup**



En la mv del laboratorio que estamos probando, para que tenga acceso a internet hay que especificar como proxy de salida a internet la dirección ip que le dimos a la máquina del Virtual Lab que definimos como proxy En mi caso al ser una máquina linux , desde consola pondría **export http_proxy=<http://172.19.4.80:8080>**

Referencias

- <https://blog.mrpol.nl/2012/04/19/how-to-install-a-veeam-virtual-lab/>
- <https://rnelson0.com/2017/09/29/getting-started-with-veeam-surebackup-jobs/>
- Contraseña por defecto de la mv proxy
- <https://aprendiendoavirtualizar.com/veeam-backup-configurar-surebackup-y/>
- <https://aprendiendoavirtualizar.com/veeam-backup-editar-opciones-surebackup-verificar-backup-s-2a-parte/>

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