

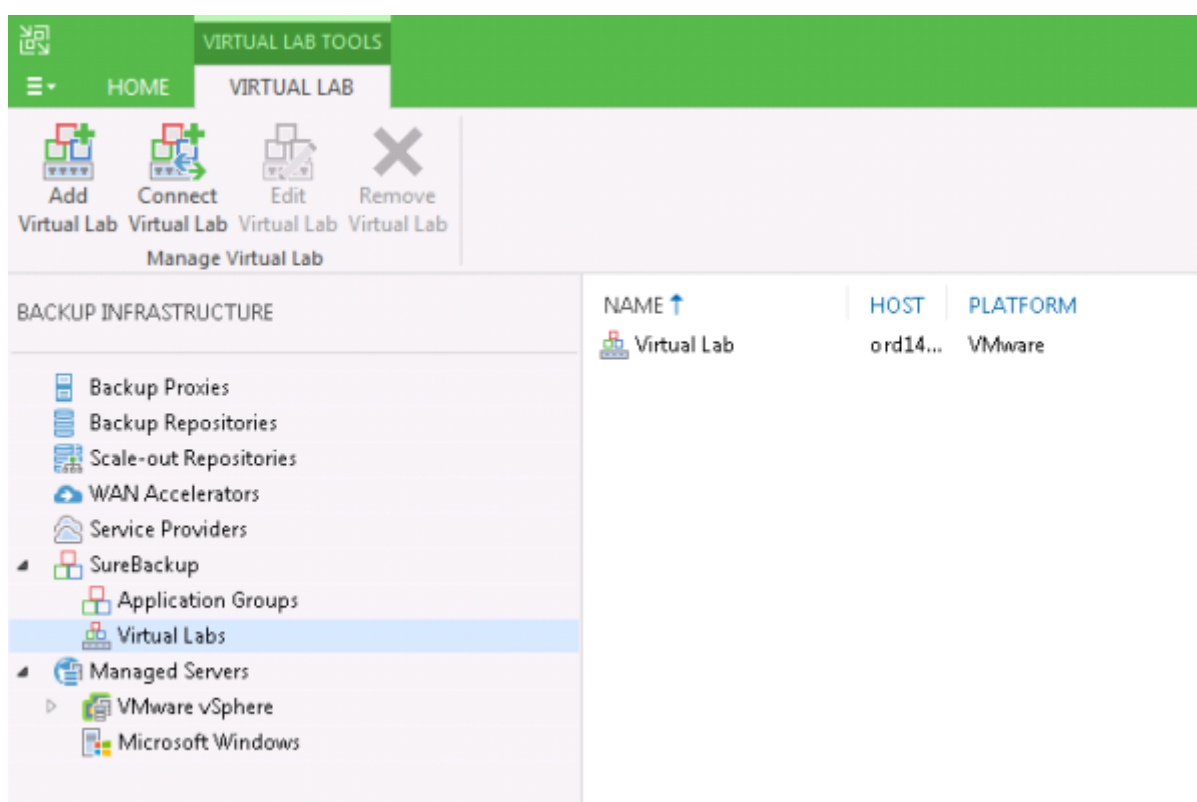
[veeam](#), [virtual](#), [lab](#), [vsphere](#), [vmware](#)

## Virtual Lab de Veeam

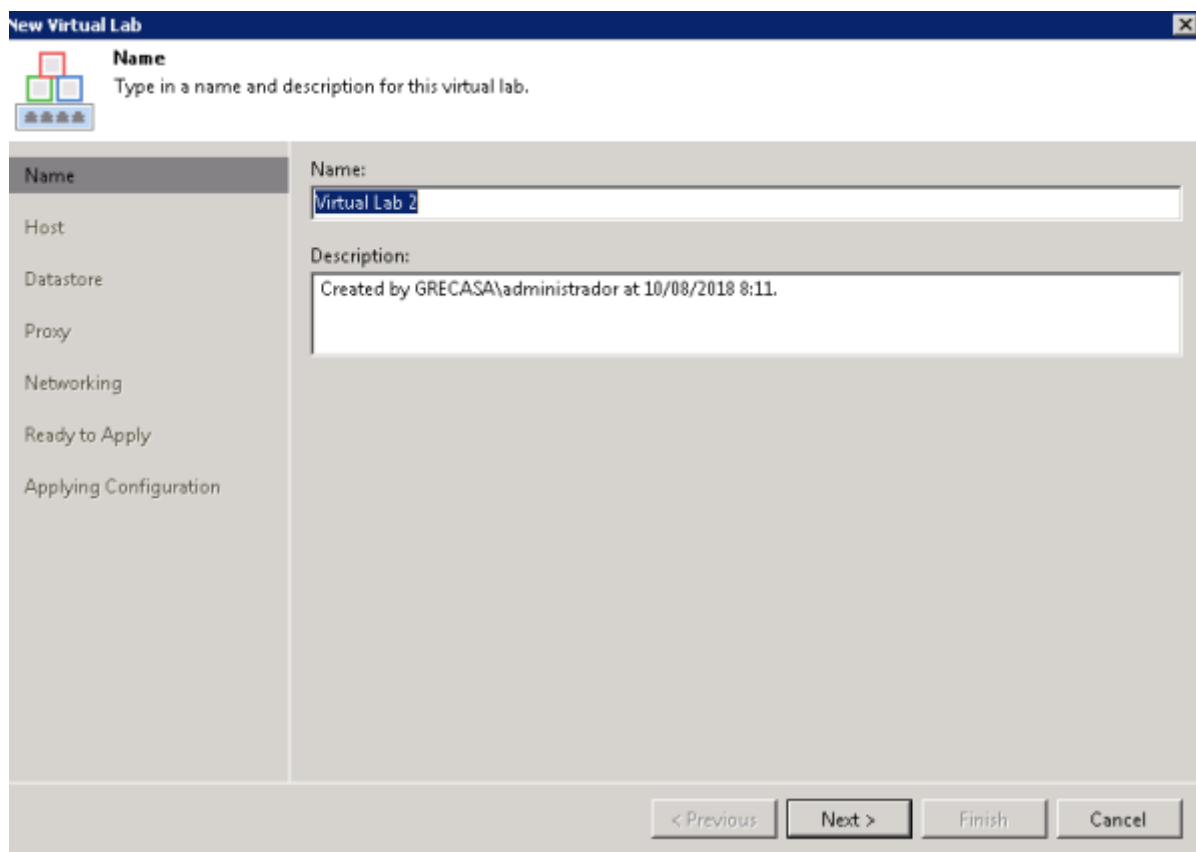
Una de las funciones menos aprovechadas de veeam backup son los **Virtual Labs**. Con los virtual labs de Veeam no sólo podremos verificar los backups realizados, también podemos levantar una replica de alguna de las máquinas virtuales que tengamos, hacer pruebas y verificar cambios antes de realizarlos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

Host

Datastore

Proxy

Networking

Ready to Apply

Applying Configuration

Name: Virtual Lab 2

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

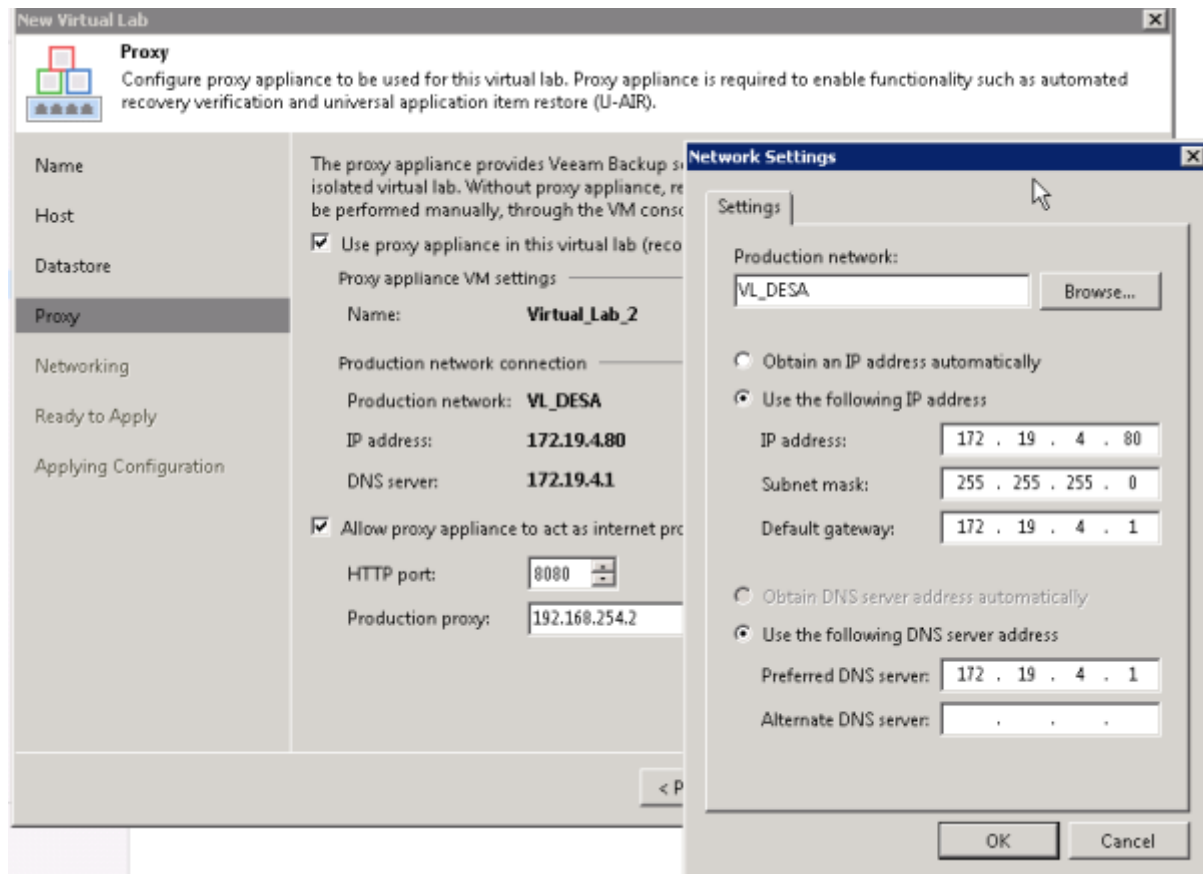
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Seleccionamos el host ESXi y el datastore donde vamos a crear el laboratorio.

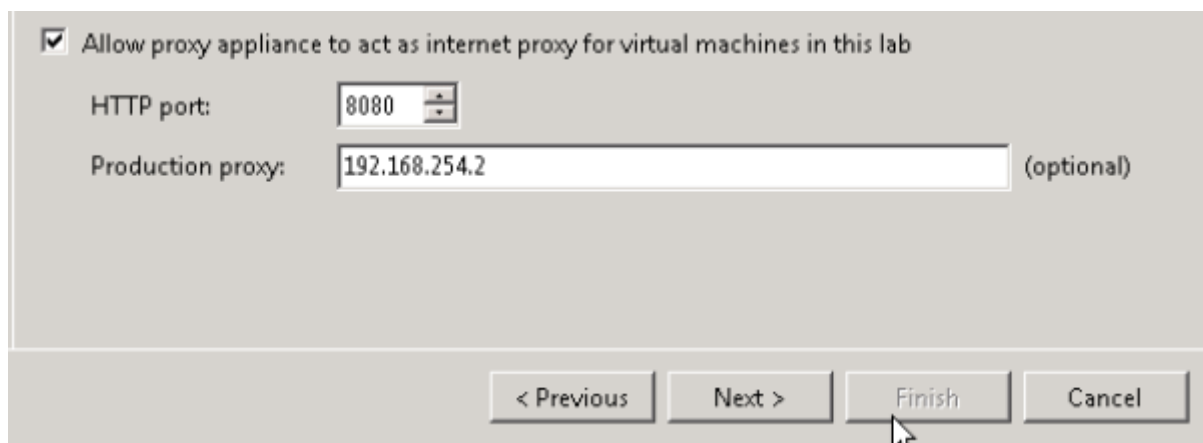
Definimos los parámetros de la máquina virtual (proxy), que va a hacer de intermediario entre el entorno real y las máquinas que corran en la red de los laboratorios .



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

The screenshot shows the 'New Virtual Lab' dialog box with the 'Networking' tab selected. The left sidebar lists various configuration steps: Name, Host, Datastore, Proxy, Networking (selected), Isolated Networks, Network Settings, Static Mapping, Ready to Apply, and Applying Configuration. The main area contains three radio button options for network configuration. The 'Advanced single-host (manual configuration)' option is selected. Below the options, it says 'Distributed virtual switch: none' with a 'Choose...' button. At the bottom are buttons for '< Previous', 'Next >', 'Finish', and 'Cancel'.

**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  
Host  
Datastore  
Proxy  
**Networking**  
Isolated Networks  
Network Settings  
Static Mapping  
Ready to Apply  
Applying Configuration

☐ **Basic single-host (automatic configuration)**  
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.

☒ **Advanced single-host (manual configuration)**  
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.

☐ **Advanced multi-host (manual configuration)**  
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 (DVS) available in Enterprise Plus edition of VMware vSphere.

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

The screenshot shows the 'New Virtual Lab' dialog box with the 'Isolated Networks' tab selected. The left sidebar is the same as the previous screenshot, but 'Isolated Networks' is now selected. The main area is titled 'Network mapping:' and contains a table with three columns: 'Production network', 'Isolated network', and 'VLAN ID'. The first row is populated with 'VL\_DESA', 'Virtual Lab 2 VL\_DESA', and '4'. To the right of the table are buttons for 'Add...', 'Edit...', and 'Remove'. At the bottom are buttons for '< Previous', 'Next >', 'Finish', and 'Cancel'.

**New Virtual Lab**

**Isolated Networks**  
Specify isolated networks to be created in this virtual lab, and how they map on production networks.

Name  
Host  
Datastore  
Proxy  
Networking  
**Isolated Networks**  
Network Settings  
Static Mapping  
Ready to Apply  
Applying Configuration

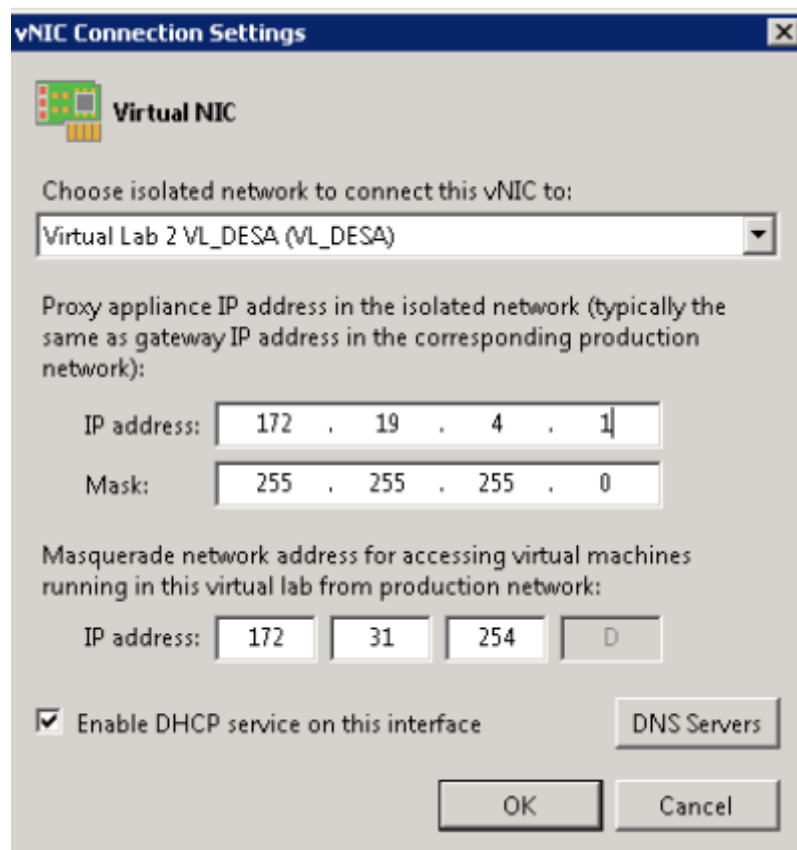
Network mapping:

Production network	Isolated network	VLAN ID
VL_DESA	Virtual Lab 2 VL_DESA	4

Add...  
Edit...  
Remove

< Previous Next > Finish Cancel

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:

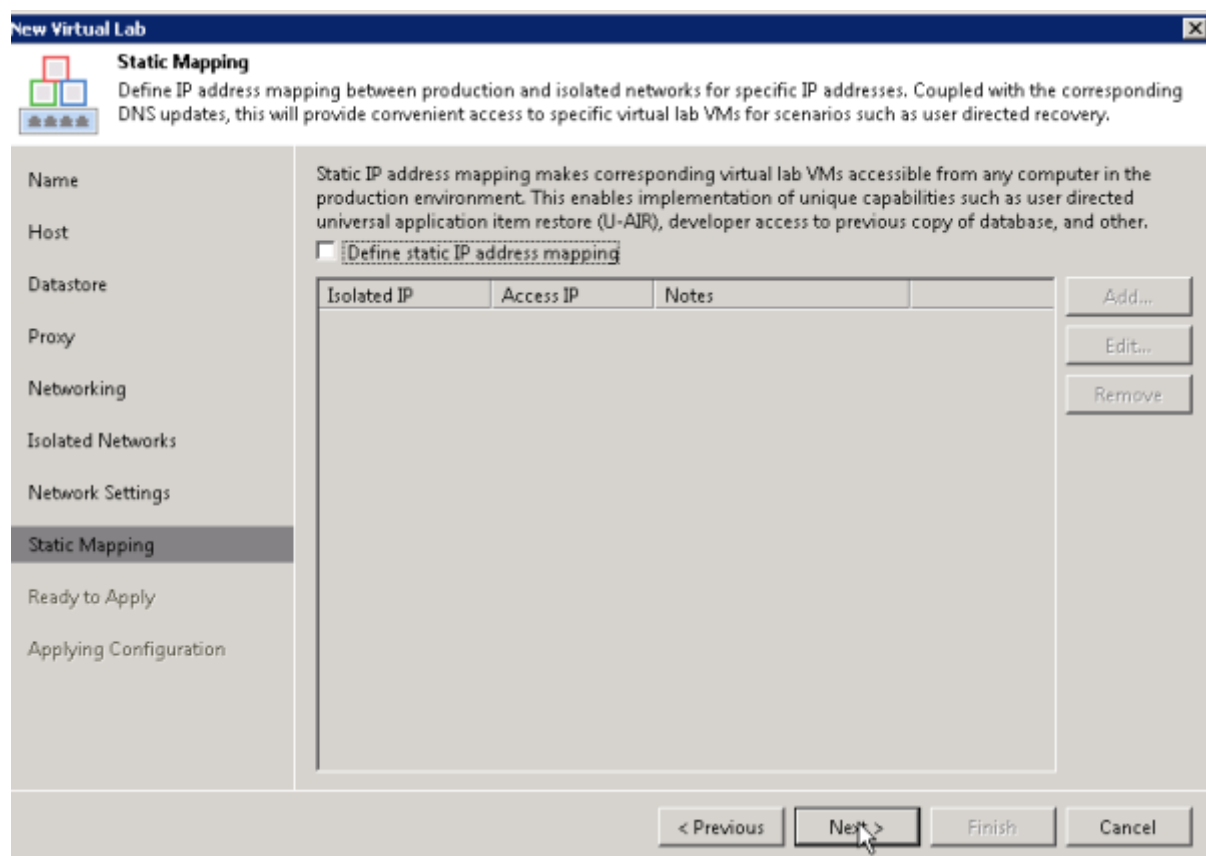
IP address: 172 . 31 . 254 . 0

☒ 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.

Name  
Host  
Datastore  
Proxy  
Networking  
Isolated Networks  
Network Settings  
**Static Mapping**  
Ready to Apply  
Applying Configuration

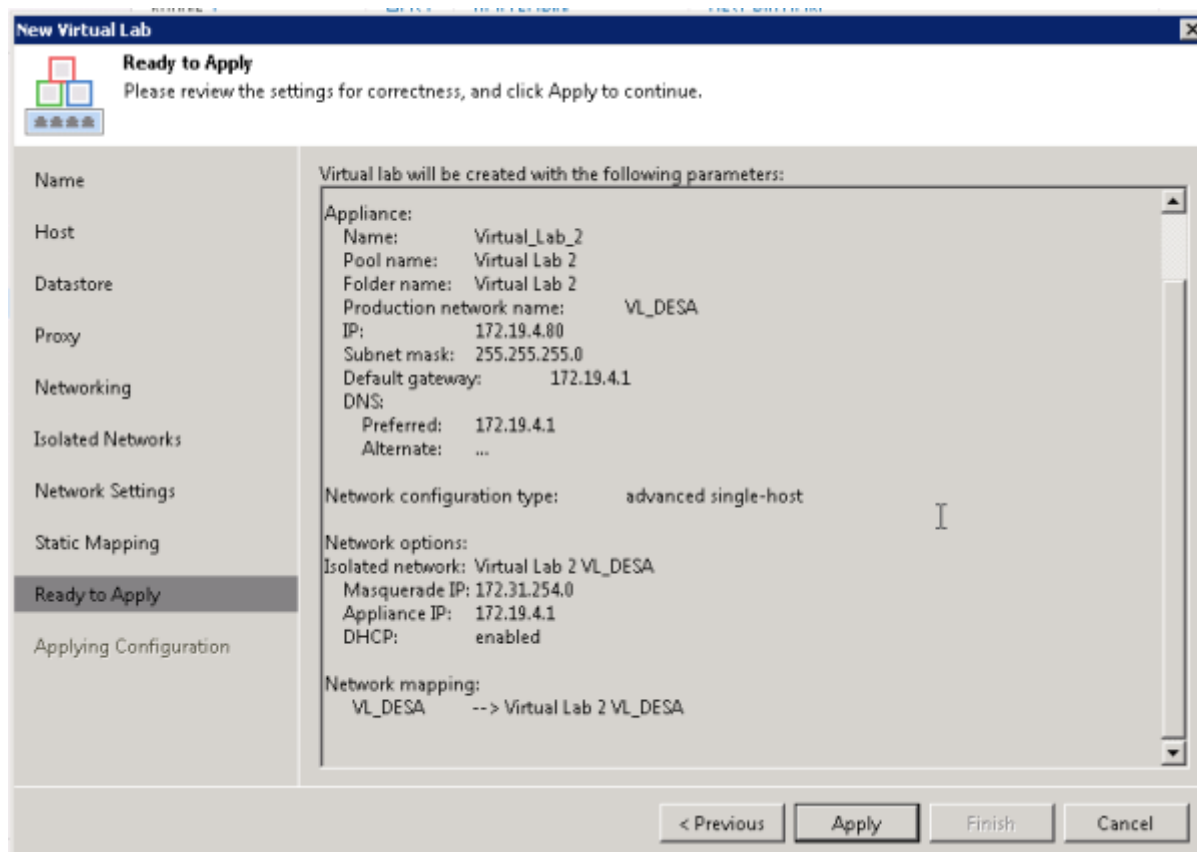
Static IP address mapping makes corresponding virtual lab VMs accessible from any computer in the production environment. This enables implementation of unique capabilities such as user directed universal application item restore (U-AIR), developer access to previous copy of database, and other.

☐ Define static IP address mapping

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

< Previous Next > Finish Cancel

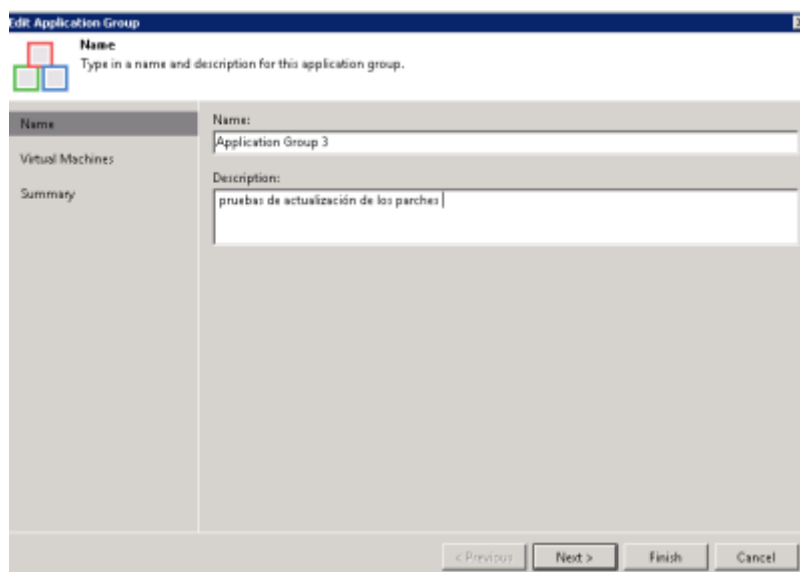


## Creación del Application Group

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

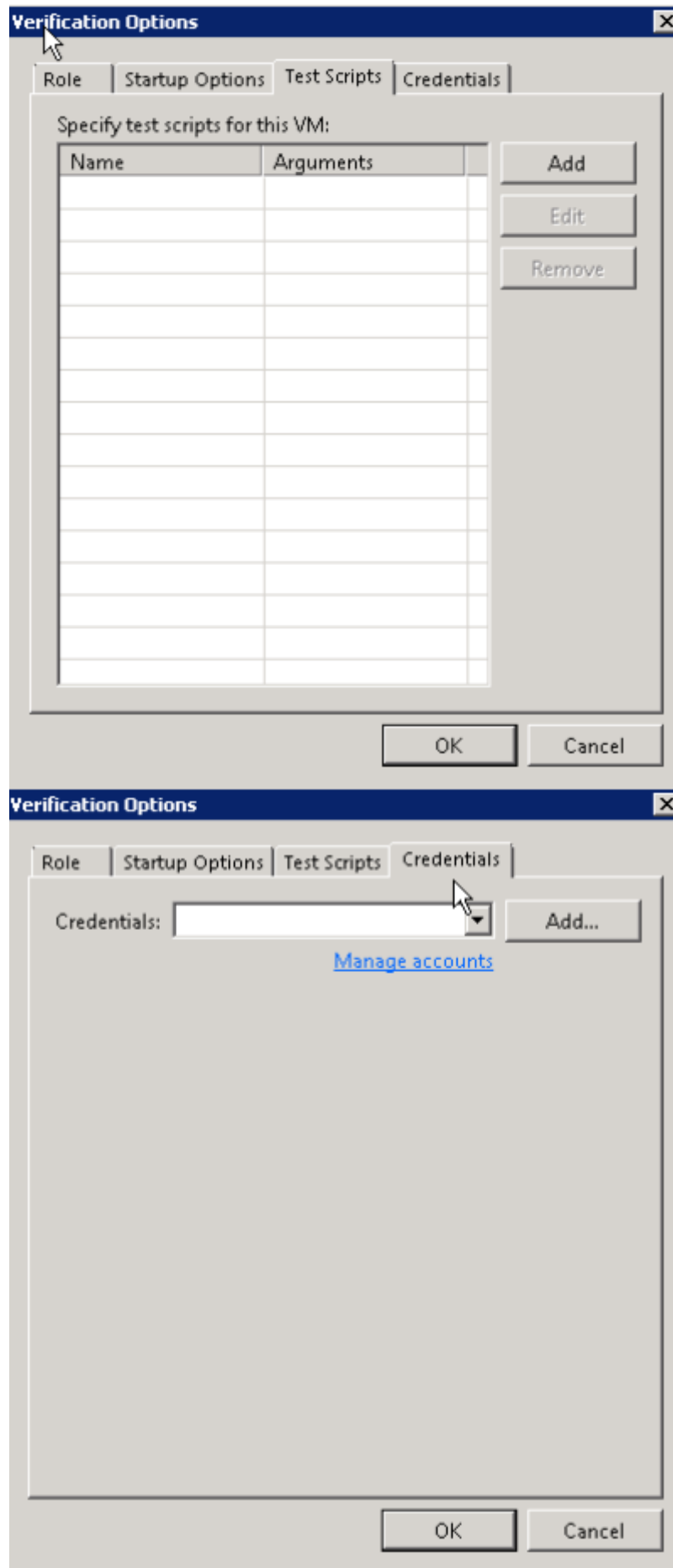
Boot verification —

Consider VM to have successfully booted when:

☒ VM heartbeat is present

☐ VM responds to ping on any network interface

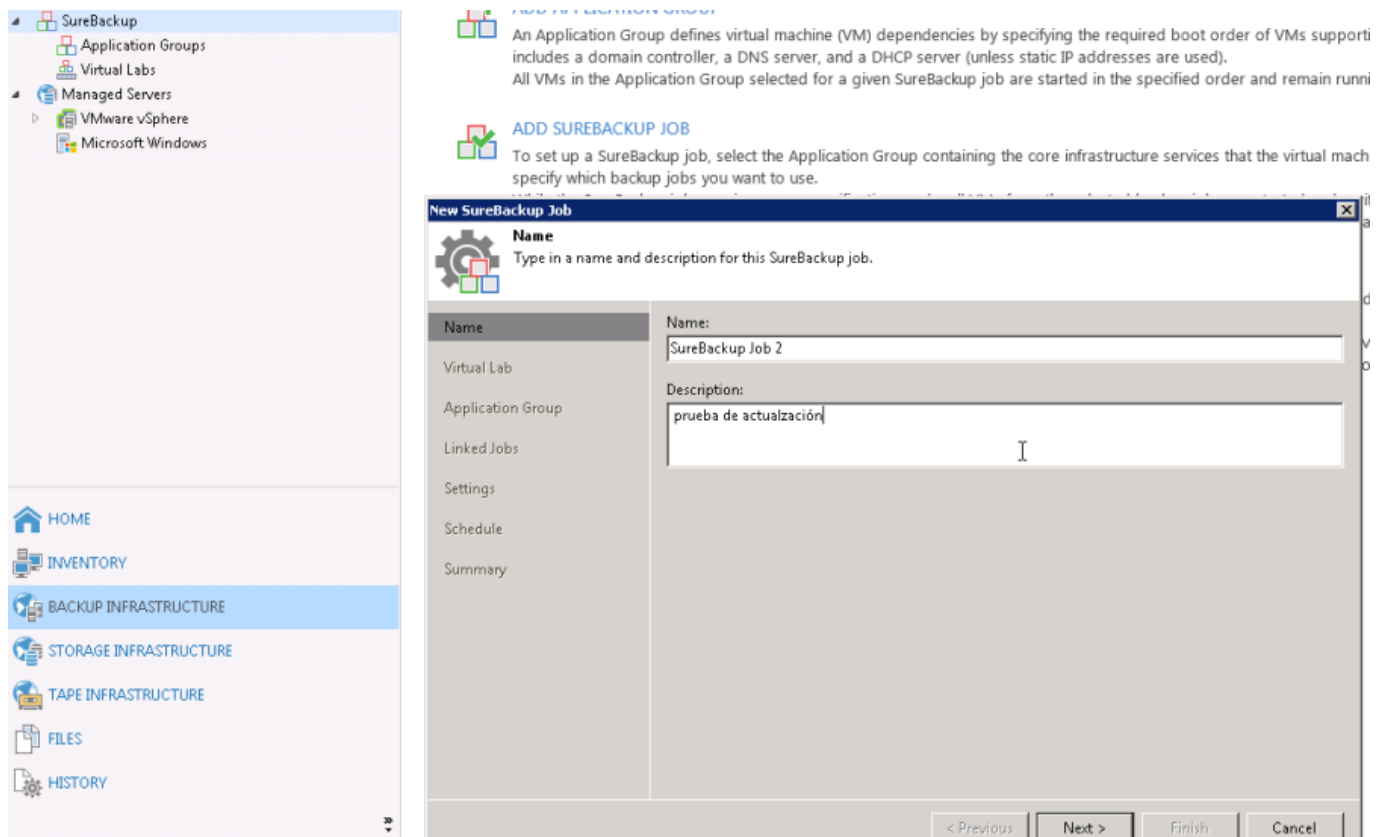
OK Cancel





## 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

The 'New SureBackup Job' dialog box is shown with the 'Application Group' tab selected. The left sidebar contains links for Name, Virtual Lab, Application Group (selected), Linked Jobs, Settings, Schedule, and Summary. The main area has a title 'Application Group' and a subtitle 'Choose the application group for this job and verify that all required backups are available.' Below this is a dropdown menu for 'Application group:' with 'No application group' selected. A message says 'Select an Application Group to see its statistics.' Below that is a table titled 'Application group info:' with columns 'VM', 'Role', 'Source', and 'Source Status'. The table is empty. At the bottom, there is a checkbox 'Keep the application group running after the job completes' with a description: 'This option enables performing additional manual verification, or user-directed application item recovery for virtual machines in this application group.' Navigation buttons at the bottom are '< Previous', 'Next >', 'Finish', and 'Cancel'.

VM	Role	Source	Source Status

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.

The 'Edit SureBackup Job [SureBackup Job 1]' dialog box is shown with the 'Linked Jobs' tab selected. The left sidebar contains links for Name, Virtual Lab, Application Group, Linked Jobs (selected), Settings, Schedule, and Summary. The main area has a title 'Linked Jobs' and a subtitle '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.' Below this is a checkbox 'Link jobs' which is unchecked. To the right of the checkbox is a table with columns 'Name', 'Role', 'Ping', and 'Heartbeat'. The table is empty. To the right of the table are buttons 'Add...', 'Edit...', and 'Remove'. Below the table is a label 'Process simultaneously up to:' followed by a spinner box showing '3' and the text 'VMs'. An 'Advanced' button is at the bottom right. Navigation buttons at the bottom are '< Previous', 'Next >', 'Finish', and 'Cancel'.

Name	Role	Ping	Heartbeat

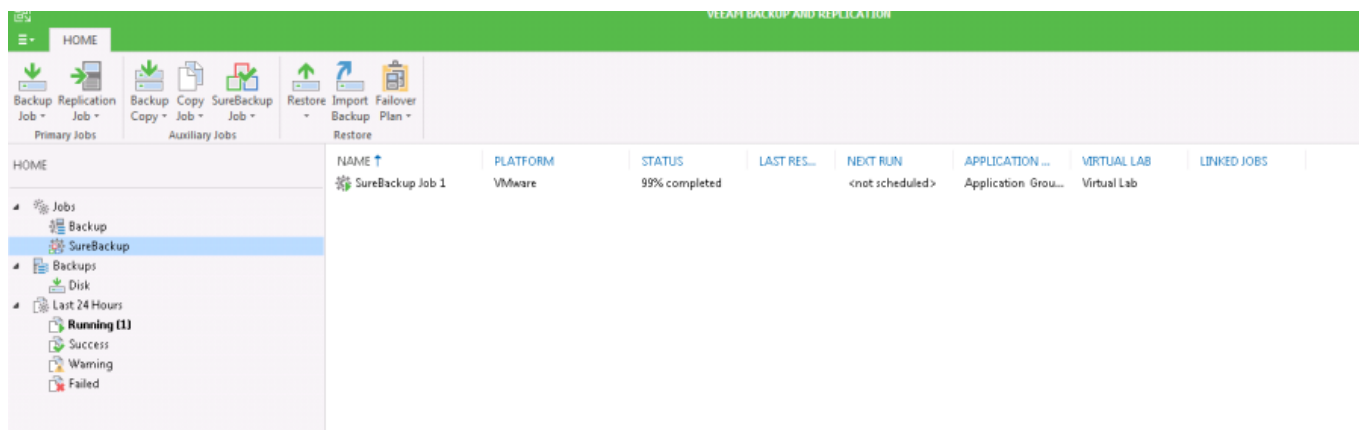
Especificamos los avisos

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 has two sections: 'Job results' and 'Backup file integrity check'. In 'Job results', 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 'Backup file integrity check', 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, 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 has a section 'Run the job automatically' with three radio buttons: 'Daily at this time:' (selected), 'Monthly at this time:', and 'After this job:'. The 'Daily at this time:' option has a time field set to '22:00', a frequency dropdown set to 'Everyday', and a 'Days...' button. The 'Monthly at this time:' option has a time field set to '22:00', a frequency dropdown set to 'Fourth', a day dropdown set to 'sábado', and a 'Months...' button. The 'After this job:' option has a dropdown menu showing 'Backup Linux PRO (Created by GRECASA\administrador at 26/04/2016)'. Below this is a section '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, 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-backups-2a-parte/>

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