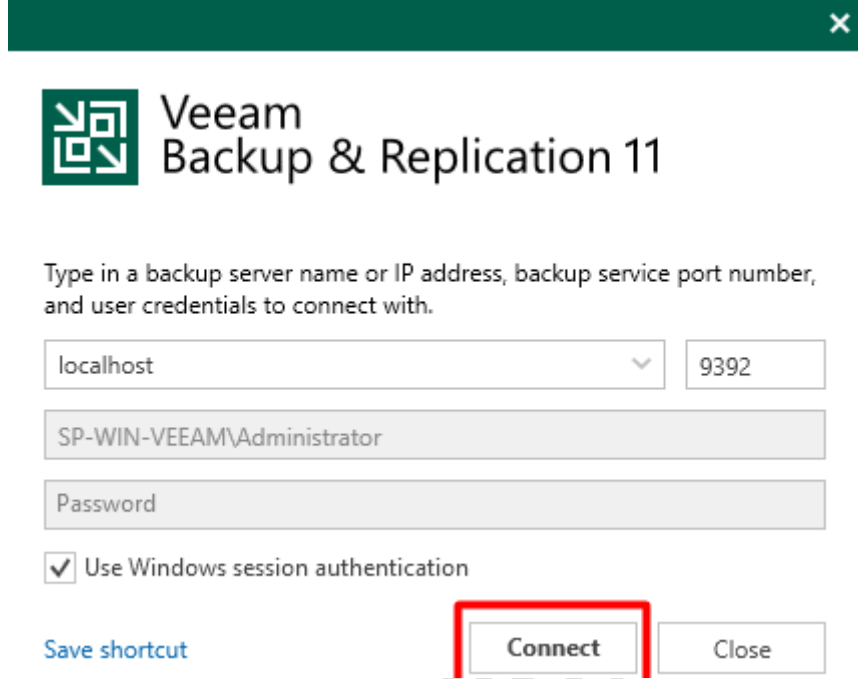


Veeam Backup & Replication 11 ESXi Host Ekleme ve Yedek Alma

Veeam Backup ile VMware ve Hyper-V platformları üzerinden yedek alabilirsiniz. Bizim yapımızda 1 adet ESXi host olduğu için vmware ile devam edeceğim.

Veeam Backup konsolumuzu açalım ve sırası ile aşağıdaki işlemleri yapalım.

Connect ile backup programımızı başlatalım.



Type in a backup server name or IP address, backup service port number, and user credentials to connect with.

localhost 9392

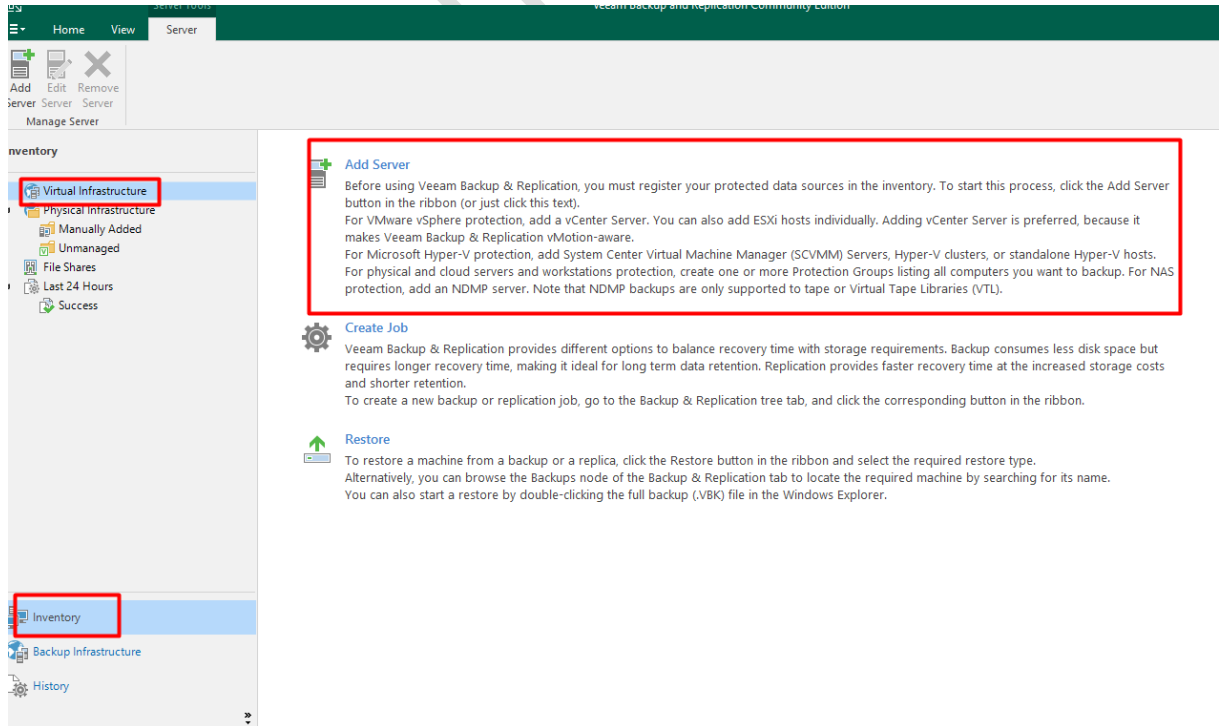
SP-WIN-VEEAM\Administrator

Password

Use Windows session authentication

Save shortcut **Connect** Close

Dashboard ekranında sırası ile Inventory>Virtual Infrastructure>Add Server ile hostumuzu ekleyelim.



Add Server

Before using Veeam Backup & Replication, you must register your protected data sources in the inventory. To start this process, click the Add Server button in the ribbon (or just click this text).

For VMware vSphere protection, add a vCenter Server. You can also add ESXi hosts individually. Adding vCenter Server is preferred, because it makes Veeam Backup & Replication vMotion-aware.

For Microsoft Hyper-V protection, add System Center Virtual Machine Manager (SCVMM) Servers, Hyper-V clusters, or standalone Hyper-V hosts.

For physical and cloud servers and workstations protection, create one or more Protection Groups listing all computers you want to backup. For NAS protection, add an NDMP server. Note that NDMP backups are only supported to tape or Virtual Tape Libraries (VTL).

Create Job

Veeam Backup & Replication provides different options to balance recovery time with storage requirements. Backup consumes less disk space but requires longer recovery time, making it ideal for long term data retention. Replication provides faster recovery time at the increased storage costs and shorter retention.

To create a new backup or replication job, go to the Backup & Replication tree tab, and click the corresponding button in the ribbon.

Restore

To restore a machine from a backup or a replica, click the Restore button in the ribbon and select the required restore type. Alternatively, you can browse the Backups node of the Backup & Replication tab to locate the required machine by searching for its name. You can also start a restore by double-clicking the full backup (.Vbk) file in the Windows Explorer.

Yapımızda VMware olduğu için VMware ile devam ediyoruz.



Add Server

Select the type of a server you want to add to your backup infrastructure. All already registered servers can be found under the Managed Servers node on the Backup Infrastructure tab.



VMware vSphere

Adds VMware private cloud infrastructure servers to the inventory.



Microsoft Hyper-V

Adds SCVMM server, Hyper-V cluster, or standalone host (2008 R2 or later) to the inventory.

Cancel

ESXi host ekleyeceğim için vSphere ile devam ediyoruz.

WWW.ETI



VMware vSphere

Select the type of a VMware server you want to add to the inventory.



vSphere

Adds vCenter Server (recommended), or standalone vSphere Hypervisor (ESXi) to the inventory.



vCloud Director

Adds VMware vCloud Director server to the inventory.


Cancel

Host ip adresini yazıp devam ediyoruz.

WWW.ETI...

New VMware Server ×

Name
Specify DNS name or IP address of VMware server.



Name Name: 192.168.1.100

Credentials

Apply

Summary


Description: erhanayas.com

< Previous **Next >** Finish Cancel

Erişim için user ve password bilgilerini giriyorum ve devam ediyoruz.

New VMware Server ×

Credentials
Select server administrator's credentials. If required, specify additional connection settings including web-service port number.





Name Select an account with local administrator privileges on the server you are adding. Use DOMAIN\USER format for domain accounts, or HOST\USER for local accounts.

Credentials: **Add...**

[Manage accounts](#)

Credentials ×

 Username: root Browse...

Password: ●●●●●●●● 

Description: root

OK Cancel

possible port

< Previous Apply Finish Cancel

Eriřim bilgilini yazdıktan sonra apply ile hostumuzu ekliyoruz.

New VMware Server ×

Credentials
Select server administrator's credentials. If required, specify additional connection settings including web-service port number.

Name
Select an account with local administrator privileges on the server you are adding. Use DOMAIN\USER format for domain accounts, or HOST\USER for local accounts.

Credentials
Credentials:
root (root, last edited: less than a day ago) Add...
[Manage accounts](#)

Apply

Summary

Default VMware web services port is 443. If connection cannot be established, check for possible port customization in the vCenter Server or ESXi server settings.

Port: 443

< Previous Apply Finish Cancel

Sertifikayı kabul edip devam ediyoruz.

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Credentials
Select server administrator's credentials. If required, specify additional connection settings including web-service port number.

Name Select an account with local administrator privileges on the server you are adding. Use DOMAIN\USER format for domain accounts, or HOST\USER for local accounts.

Credentials: [Manage accounts](#) Add...

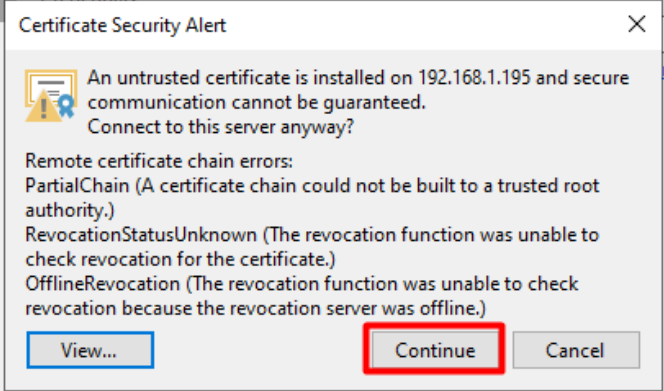
Apply

Summary

Default VMware web services port is 443. If connection cannot be established, check for possible port customization in the vCenter Server or ESXi server settings.

Port:

< Previous Apply Finish Cancel



Hostumuzu başarı ile ekledik. Next ile devam ediyoruz.

Apply
Please wait while required operations are being performed. This may take a few minutes...

| Name | Message | Duration |
|-------------|---|----------|
| Credentials | ✓ Starting infrastructure item update process | 0:00:03 |
| Apply | ✓ Creating database records for server | |
| Summary | ✓ Collecting disks and volumes info | 0:00:13 |
| | ✓ VMware server saved successfully | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |

< Previous Next > Finish Cancel

Finish ile işlemi tamamlıyoruz.

New VMware Server ×

Summary
You can copy the configuration information below for future reference.

Summary

Summary:
VMware ESXi server '192.168.1.195' was created with warnings. See logs for details.
Host info: VMware ESXi 7.0.2 build-17630552
Connection options:
User: root
Port: 443

< Previous Next > **Finish** Cancel

Host içerisinde çalışan sanal sunucularımı ekranda görebiliriz.

Home View Server

Add Server Edit Server Remove Server Set Location Manage Storage Tools

Inventory

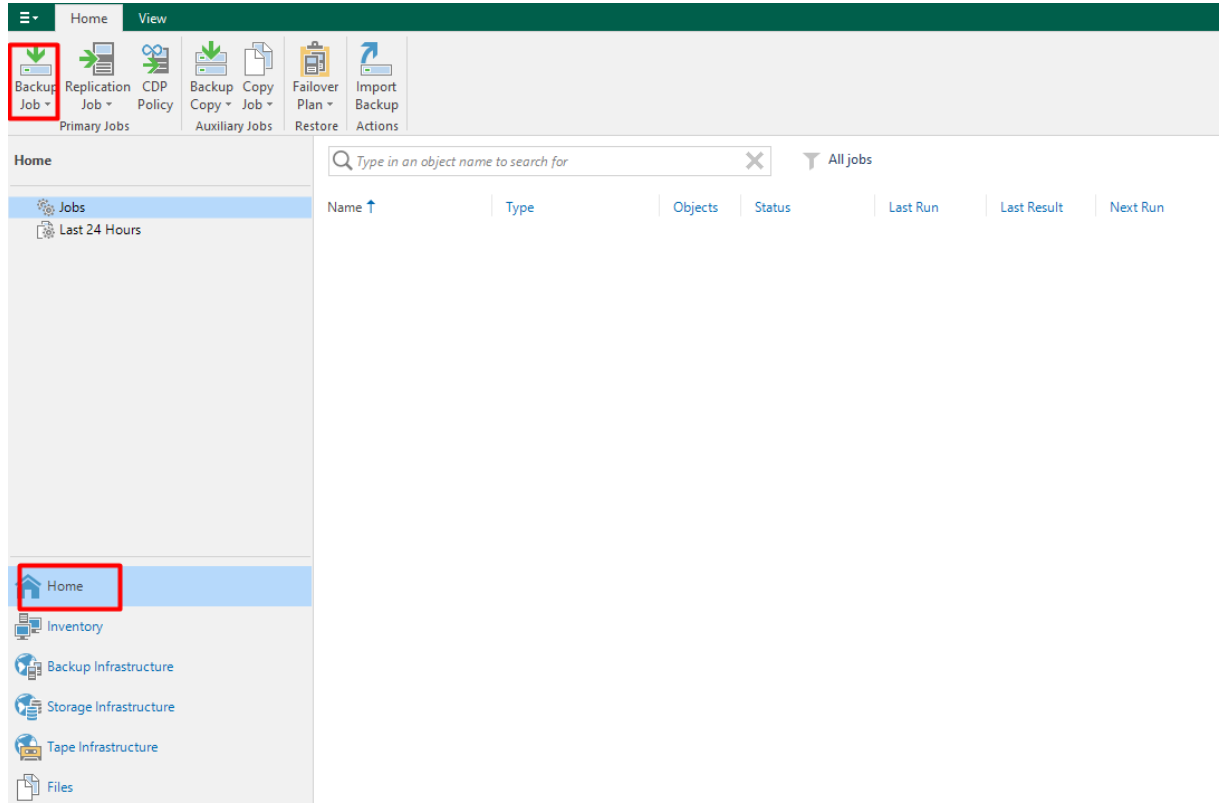
Virtual Infrastructure

- VMware vSphere
 - Standalone Hosts
 - 192.168.1.195
- Physical Infrastructure
 - Manually Added
 - Unmanaged
 - File Shares
 - Last 24 Hours
 - Success

Home Inventory Backup Infrastructure Storage Infrastructure Tape Infrastructure Files

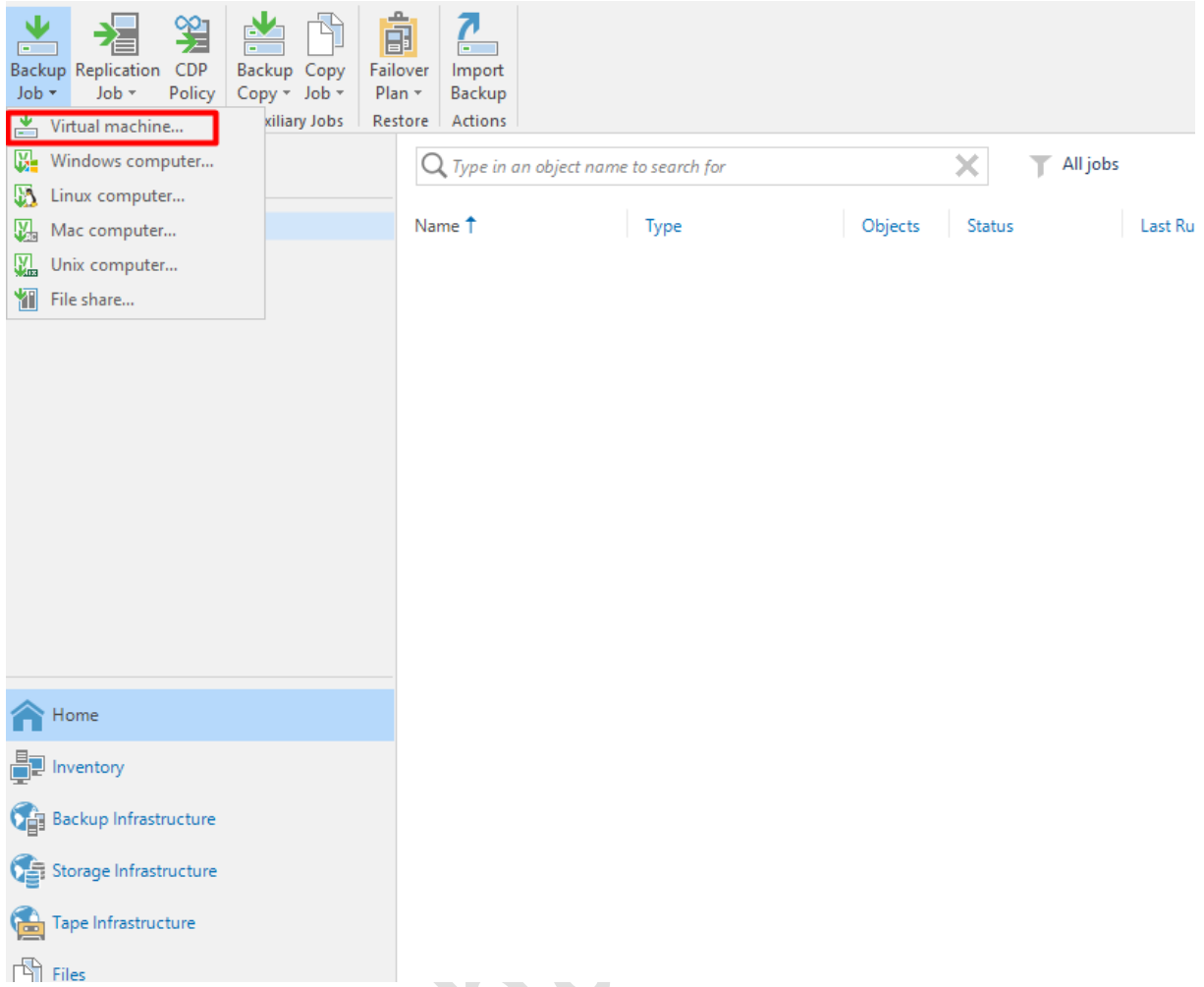
| Name ↑ | Used Size | Provisioned Size | Folder | Host | Guest OS |
|-----------------------|-----------|------------------|--------|-----------------------|----------------------------|
| SP-WIN-DC01 | 44.1 GB | 44.1 GB | vm | localhost.localdomain | Microsoft Windows Server 2 |
| SP-WIN-DC02 | 40 GB | 44.3 GB | vm | localhost.localdomain | |
| VMware vCenter Server | 434.7 GB | 447 GB | vm | localhost.localdomain | |

Yukarıdaki işlemleri tamamladıktan sonra backup job oluşturabiliriz. Ana ekranda yer alan backup job butonuna basalım.



Virtual machine ile devam edelim.

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Backup için isim verelim ve devam edelim.

www.eric...

New Backup Job



Name

Type in a name and description for this backup job.

| | |
|------------------|-------------------------------|
| Name | Name: YedekTest |
| Virtual Machines | Description: erhanayas.com |
| Storage | |
| Guest Processing | |
| Schedule | |
| Summary | |

High priority
Backup infrastructure resources are offered to high priority jobs first. Use this option for jobs sensitive to the start time, or jobs with strict RPO requirements.

< Previous **Next >** Finish Cancel

Bu ekranda add diyerek sunucularımı ekleyelim.

New Backup Job



Virtual Machines

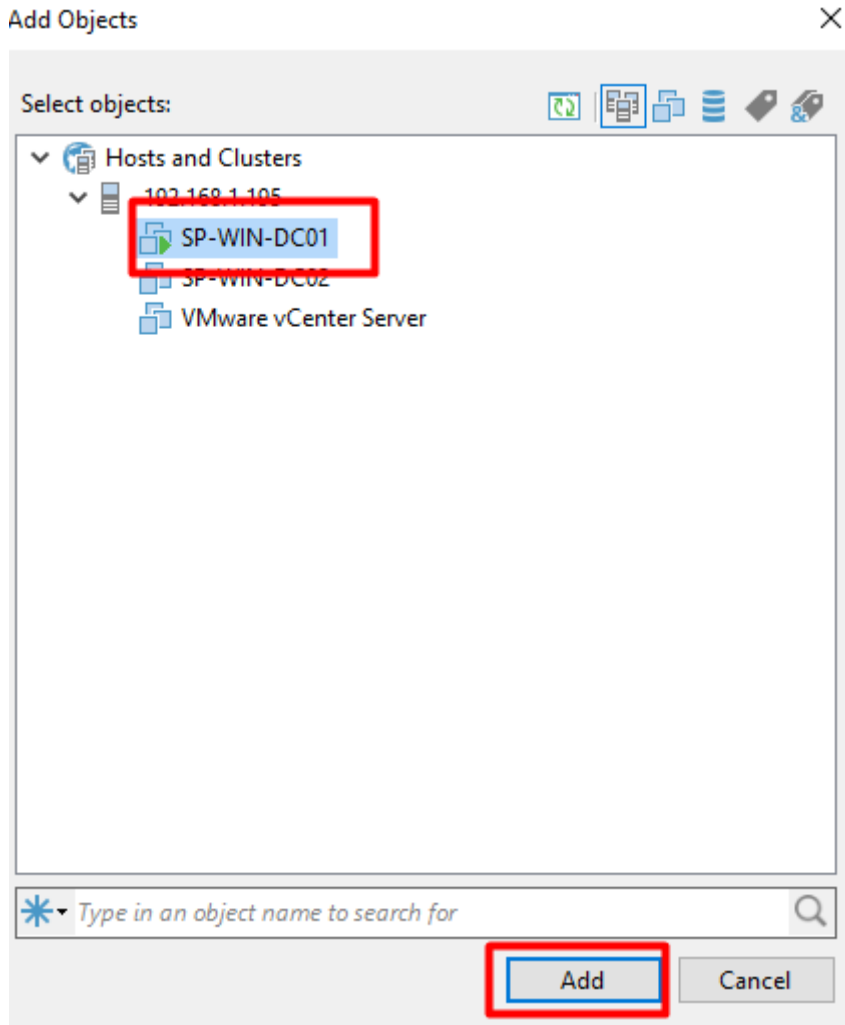
Select virtual machines to process via container, or granularly. Container provides dynamic selection that automatically changes as you add new VM into container.

| | | | | |
|------------------|-----------------------------|------|------|---------------|
| Name | Virtual machines to backup: | | | Add... |
| Virtual Machines | Name | Type | Size | Remove |
| Storage | | | | Exclusions... |
| Guest Processing | | | | ↑ Up |
| Schedule | | | | ↓ Down |
| Summary | | | | Recalculate |

Total size:
0 B

< Previous **Next >** Finish Cancel

Test ortamı olduđu için 1 adet sunucumuzu seçtik ve ekle ile devam ediyoruz.



Sunucumu ekledik. Next ile devam edelim.

**Virtual Machines**

Select virtual machines to process via container, or granularly. Container provides dynamic selection that automatically changes as you add new VM into container.

| Name | Virtual machines to backup: | | | | | | | |
|------------------|---|---------|------|------|-------------|-----------------|---------|---|
| Virtual Machines | <table border="1"><thead><tr><th>Name</th><th>Type</th><th>Size</th></tr></thead><tbody><tr><td>SP-WIN-DC01</td><td>Virtual Machine</td><td>40.0 GB</td></tr></tbody></table> | Name | Type | Size | SP-WIN-DC01 | Virtual Machine | 40.0 GB | <input type="button" value="Add..."/> <input type="button" value="Remove"/> <input type="button" value="Exclusions..."/> <input type="button" value="Up"/> <input type="button" value="Down"/> <input type="button" value="Recalculate"/> Total size: 40.0 GB |
| Name | Type | Size | | | | | | |
| SP-WIN-DC01 | Virtual Machine | 40.0 GB | | | | | | |
| Storage | | | | | | | | |
| Guest Processing | | | | | | | | |
| Schedule | | | | | | | | |
| Summary | | | | | | | | |

< Previous **Next >** Finish Cancel

Bu ekranda yedeğin alınacağı yeri – alacağımız yedek gün sayısı- advaced butonu ile gelişmiş backup ayarlarını yapacağız.

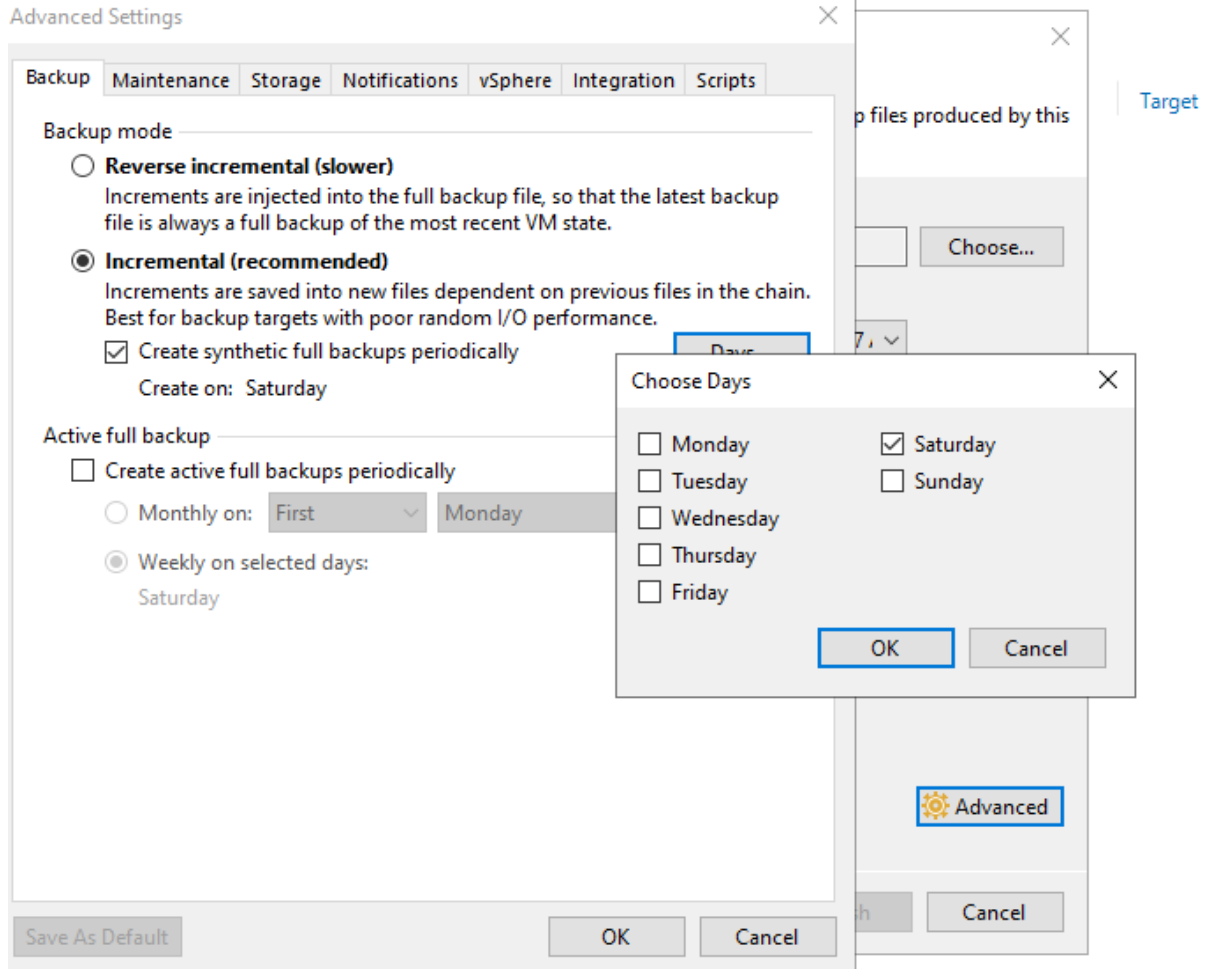
**Storage**

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.

| | |
|------------------|---|
| Name | Backup proxy: Automatic selection <input type="button" value="Choose..."/> |
| Virtual Machines | Backup repository: Backup Repository 1 (Created by SP-WIN-VEEAM\Administrator at 2/24/2022 4:57 , <input type="button" value="Map backup"/> 199 GB free of 199 GB |
| Storage | Retention policy: 7 days <input type="button" value="i"/> |
| Guest Processing | <input type="checkbox"/> Keep certain full backups longer for archival purposes <input type="button" value="Configure..."/> GFS retention policy is not configured |
| Schedule | <input type="checkbox"/> Configure secondary destinations for this job Copy backups produced by this job to another backup repository, or tape. We recommend to make at least one copy of your backups to a different storage device that is located off-site. |
| Summary | Advanced job settings include backup mode, compression and deduplication, block size, notification settings, automated post-job activity and other settings. <input type="button" value="Advanced"/> |

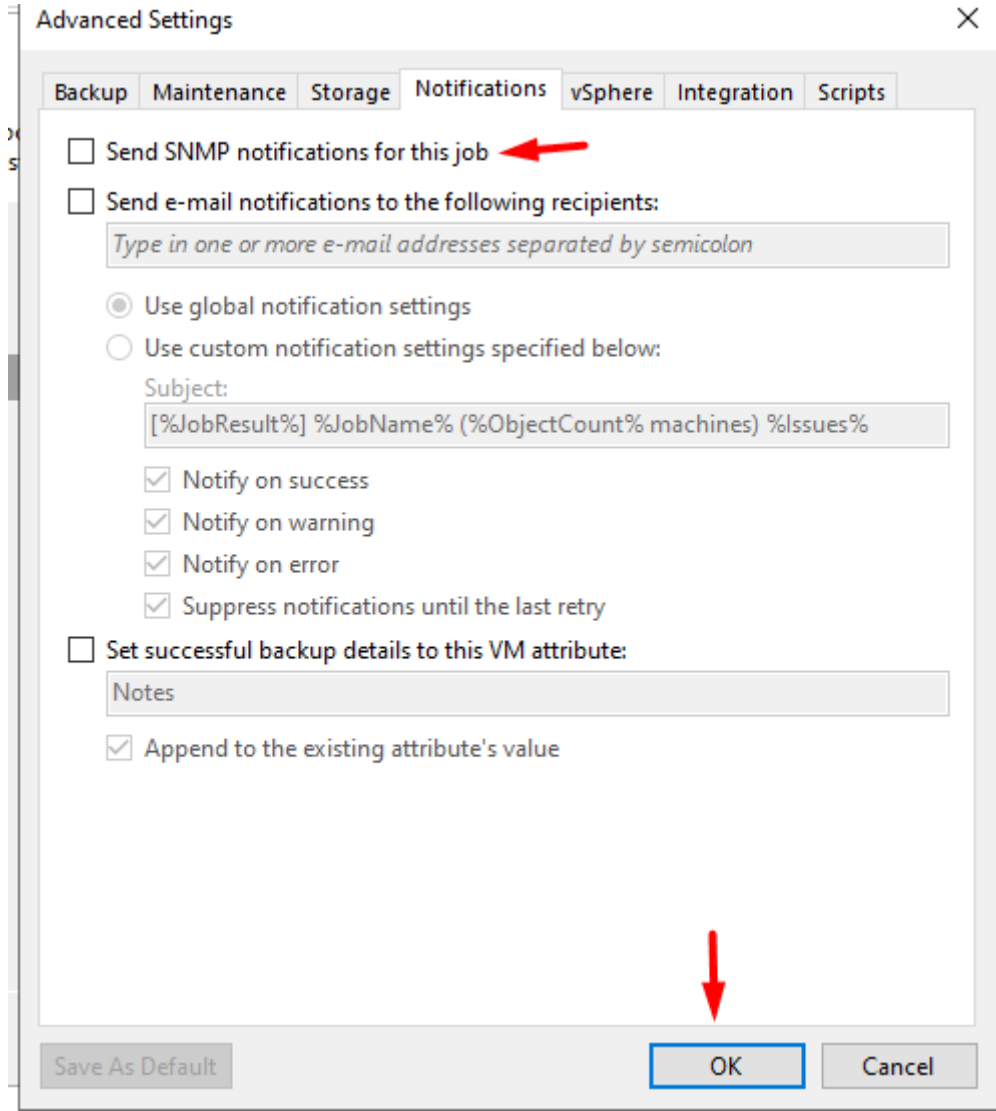
< Previous **Next >** Finish Cancel

Bu ekranda yedeğin hangi günler incremental ve hangi günler full olarak yedek alınacağını belirtiyoruz.



Notification kısmında alert maillerini açabilirsiniz.

WWW.E...



Başka bir işlem yapmayacağım için next ile devam ediyoruz.

**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.

| | |
|------------------|---|
| Name | Backup proxy: Automatic selection Choose... |
| Virtual Machines | Backup repository: Backup Repository 1 (Created by SP-WIN-VEEAM\Administrator at 2/24/2022 4:57) Map backup |
| Storage | 199 GB free of 199 GB |
| Guest Processing | Retention policy: 7 days Configure... |
| Schedule | <input type="checkbox"/> Keep certain full backups longer for archival purposes GFS retention policy is not configured |
| Summary | <input type="checkbox"/> Configure secondary destinations for this job Copy backups produced by this job to another backup repository, or tape. We recommend to make at least one copy of your backups to a different storage device that is located off-site. |
| | 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 |

Bu alanda yedek alacağınız sunucular içerisinde AD ve EX gibi serverlarımız var ise **Enable application-aware processing** (herhangi bir veri kaybı olmadan başarılı bir şekilde kurtarılması) ve **enable guest file system indexing** (dosyaların indexlenmesi) işaretli olması gerekiyor. Next ile devam ediyoruz.

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**Guest Processing**

Choose guest OS processing options available for running VMs.

| | |
|-------------------------|---|
| Name | <input type="checkbox"/> Enable application-aware processing Detects and prepares applications for consistent backup, performs transaction logs processing, and configures the OS to perform required application restore steps upon first boot. Customize application handling options for individual machines and applications Applications... |
| Virtual Machines | |
| Storage | |
| Guest Processing | <input type="checkbox"/> Enable guest file system indexing Creates catalog of guest files to enable browsing, searching and 1-click restores of individual files. Indexing is optional, and is not required to perform instant file level recoveries. Customize advanced guest file system indexing options for individual machines Indexing... |
| Schedule | |
| Summary | Guest OS credentials: <input type="text"/> Add... Manage accounts Customize guest OS credentials for individual machines and operating systems Credentials... Verify network connectivity and credentials for each machine included in the job Test Now |

< Previous **Next >** Finish Cancel

Bu ekranda yedeğin hangi saatlerde alınması gerektiğini planlıyoruz ve apply ile devam ediyoruz.

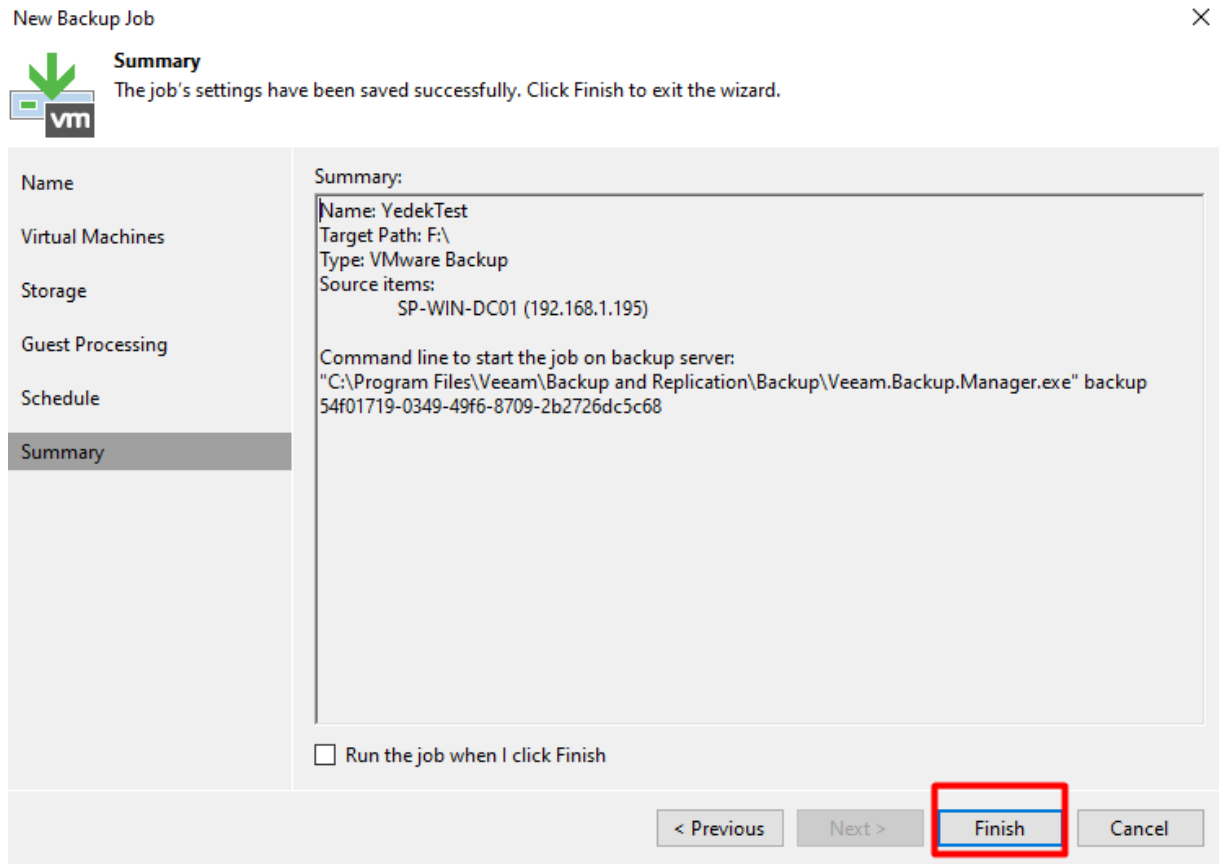
**Schedule**

Specify the job scheduling options. If you do not set the schedule, the job will need to be controlled manually.

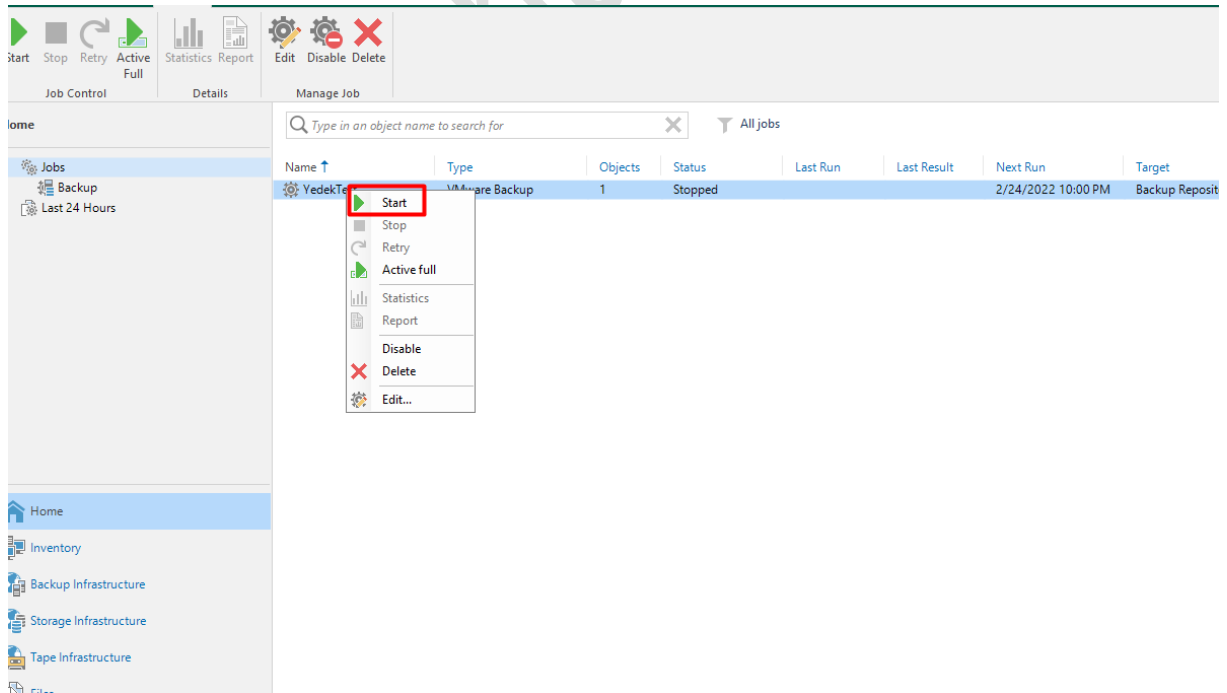
| | |
|------------------|---|
| Name | <input checked="" type="checkbox"/> Run the job automatically |
| Virtual Machines | <input checked="" type="radio"/> Daily at this time: 10:00 PM Days... Everyday |
| Storage | <input type="radio"/> Monthly at this time: 10:00 PM Months... Fourth Saturday |
| Guest Processing | <input type="radio"/> Periodically every: 1 Schedule... Hours |
| Schedule | <input type="radio"/> After this job: Schedule... |
| Summary | Automatic retry <input checked="" type="checkbox"/> Retry failed items processing: 3 times Wait before each retry attempt for: 10 minutes |
| | Backup window <input type="checkbox"/> Terminate job if it exceeds allowed backup window Window... If the job does not complete within allocated backup window, it will be terminated to prevent snapshot commit during production hours. |

< Previous **Apply** Finish Cancel

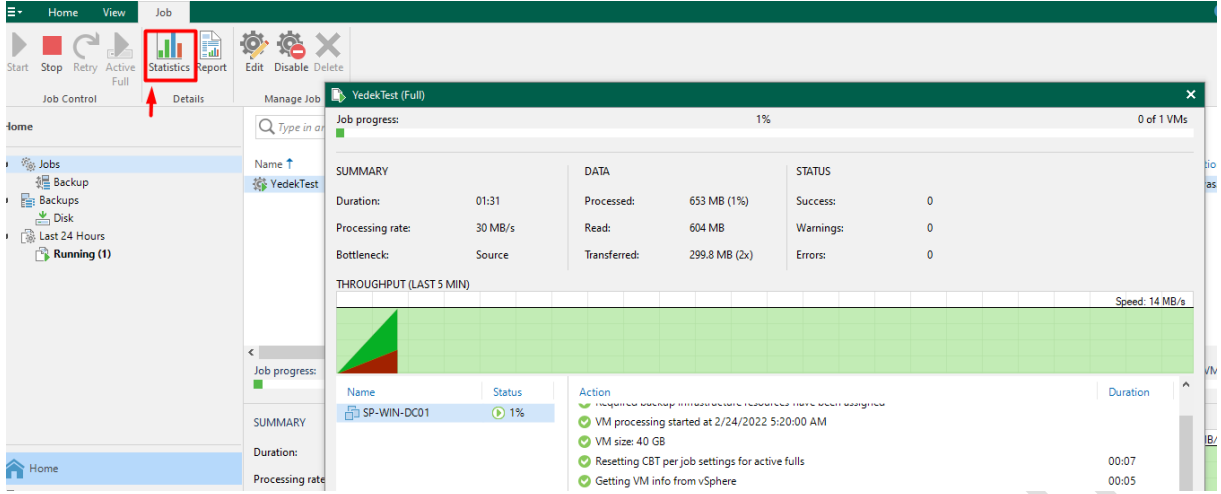
Bu ekrandayaptığımız işlemler hakkında bilgi vermektedir. Finish ile bitiriyoruz.



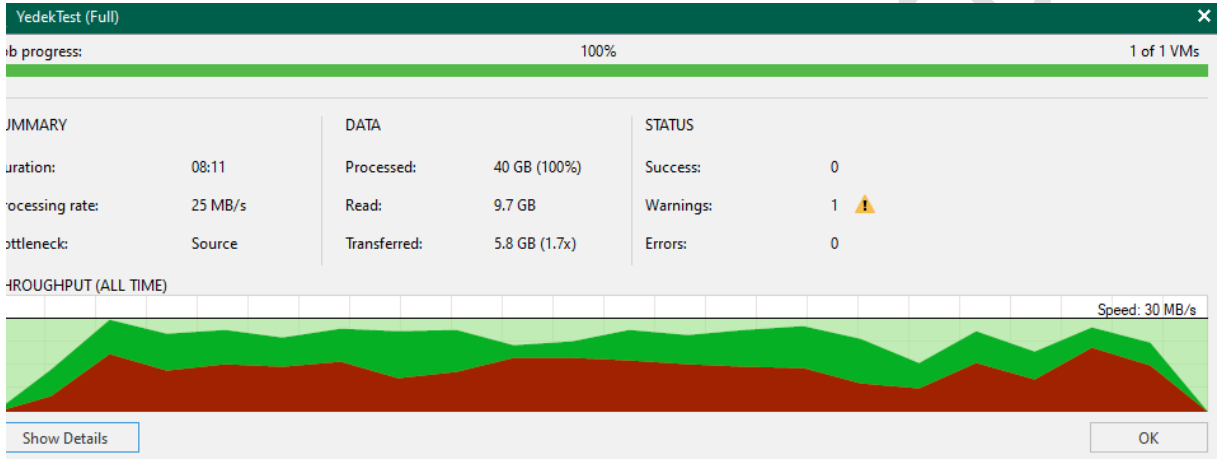
Şimdi yedek için job üzerinde sağ tıklayıp start ile başlatıyoruz.



Statistics kısmından yedek alma işlemini takip edebilirsiniz.

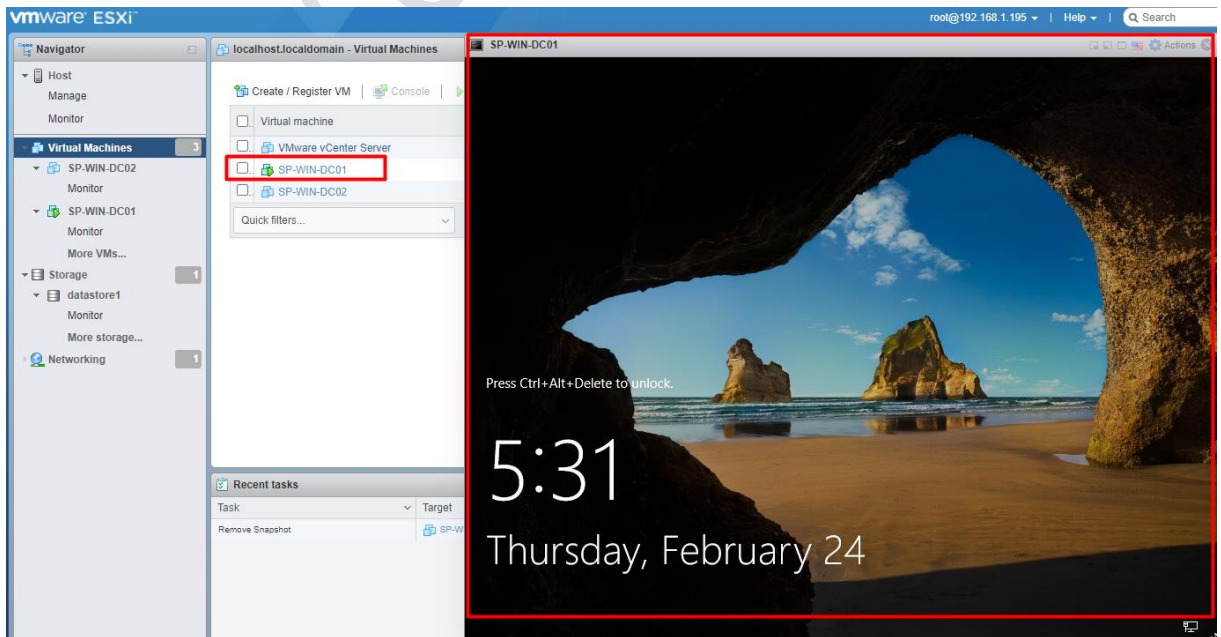


Yedek alma işlemimiz tamamlanmıştır.



Şimdi aldığımız yedeği geri dönelim.

Yedek aldığımız sunucunun vmware ortamında açık olduğunu görüyoruz.



Sunucuyu kapattım ve delete ile siliyorum.

Virtual machine

| Virtual machine | Status | Used space | Guest OS | Host name |
|-----------------------|--------|------------|---------------------------------|-----------------------------|
| VMware vCenter Server | Normal | 434.71 GB | Other 3.x or later Linux (64... | Unknown |
| SP-WIN-DC01 | Normal | 44.08 GB | Microsoft Windows Server ... | sp-win-dc01.erhanayas.local |
| SP-WIN-DC02 | Normal | 40 GB | Microsoft Windows Server | Unknown |

Quick filters...

Recent tasks

| Task | Initiator | Queued | Started | Result |
|-----------------|-----------|---------------------|---------------------|-------------------|
| Remove Snapshot | root | 02/24/2022 16:27:22 | 02/24/2022 16:27:22 | Completed success |
| Power Off VM | root | 02/24/2022 16:32:59 | 02/24/2022 16:32:59 | Completed success |

Silme işlemi tamalanmıştır.

vmware ESXi

localhost.localdomain - Virtual Machines

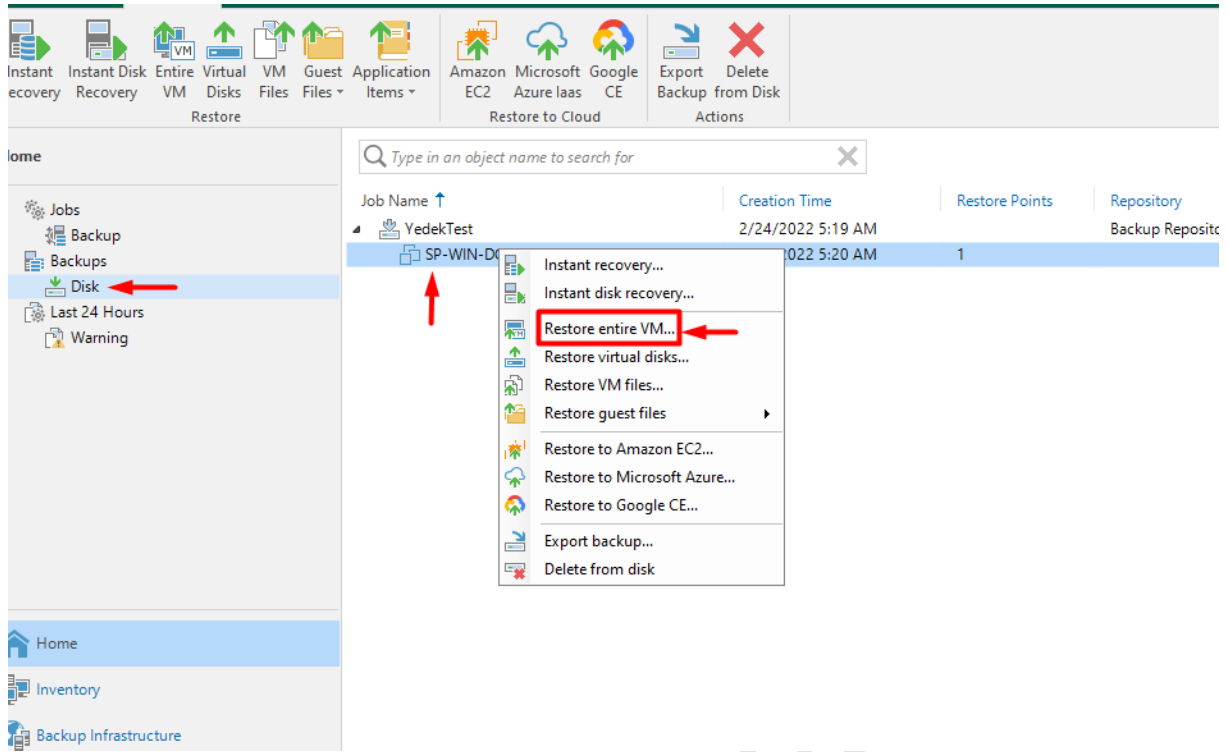
Create / Register VM | Console | Power on | Power off | Suspend | Refresh | Actions

| Virtual machine | Status | Used space | Guest OS | Host name |
|-----------------------|--------|------------|---------------------------------|-----------|
| VMware vCenter Server | Normal | 434.71 GB | Other 3.x or later Linux (64... | Unknown |
| SP-WIN-DC02 | Normal | 40 GB | Microsoft Windows Server ... | Unknown |

Quick filters...

Şimdi veeam programımıza geri dönelim ve yedek üzerinden geri dönelim.

Restore entire VM ile butonuna basıyoruz.



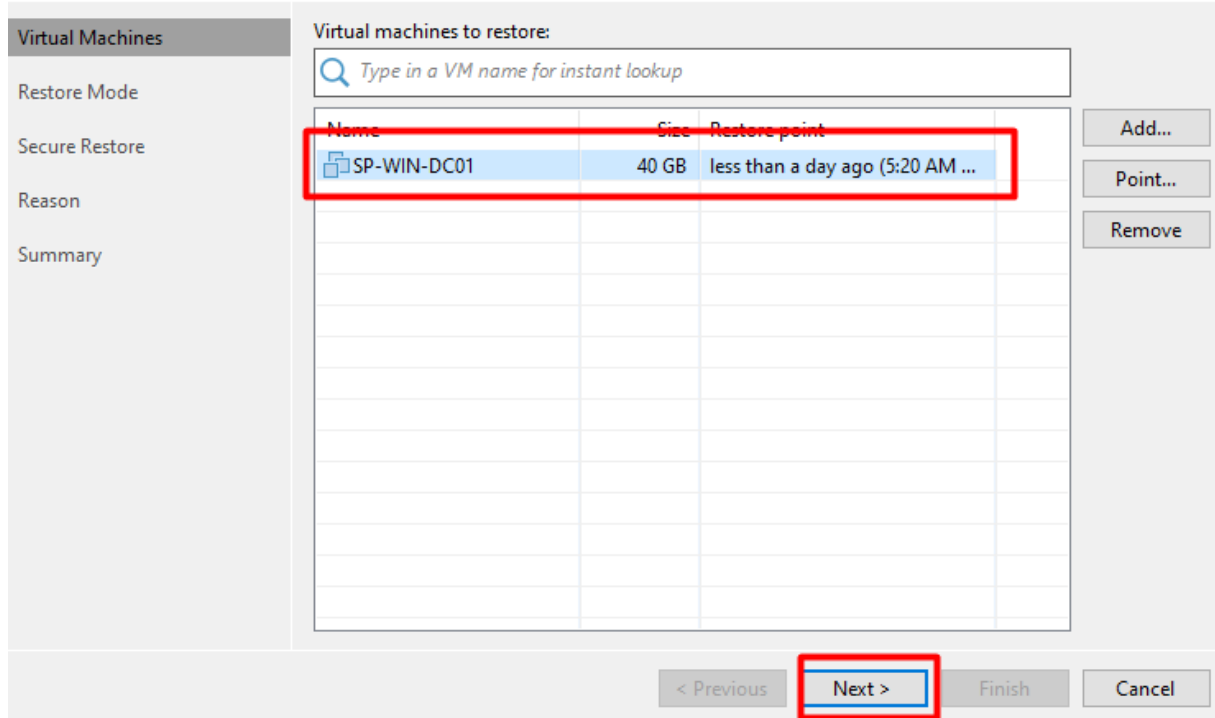
Sildiğimiz sunucuyu seçip next ile devam ediyoruz.

Full VM Restore



Virtual Machines

Select virtual machines to be restored. You can add individual virtual machines from backup files, or containers from live environment (containers will be automatically expanded into plain VM list).



Aynı yere geri döneceğim için restore to the original location seçeneğini seçip next ile devam ediyoruz.

**Restore Mode**

Specify whether selected VMs should be restored back to the original location, or to a new location or with different settings.

| | |
|------------------|--|
| Virtual Machines | <input checked="" type="radio"/> 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. |
| Restore Mode | <input type="radio"/> Restore to a new location, or with different settings Customize the restored VM location, and change its settings. The wizard will automatically populate all controls with the original VM settings as the defaults. Pick proxy to use |
| Secure Restore | <input type="checkbox"/> Quick rollback (restore changed blocks only) Allows for quick VM recovery in case of guest OS software problem, or user error. Do not use this option when recovering from disaster caused by hardware or storage issue, or power loss. |
| Reason | |
| Summary | |

< Previous **Next >** Finish Cancel

Next ile devaö ediyoruz.

**Secure Restore**


Scan the selected backup for malware, such as computer viruses or ransomware, prior to performing the restore. This requires a compatible antivirus installed on the mount server specified for the corresponding backup repository.

| | |
|------------------|---|
| Virtual Machines | <input type="checkbox"/> 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. |
| Restore Mode | If malware is found: <input checked="" type="radio"/> Proceed with recovery but disable network adapters <input type="radio"/> Abort VM recovery |
| Secure Restore | <input type="checkbox"/> Scan the entire image Continue scanning remaining files after the first malware has been found. |
| Reason | |
| Summary | |

< Previous **Next >** Finish Cancel

Finish ile geri dönme işlemini başlatıyoruz.

Full VM Restore ×

 **Summary**
Review the restore settings and click Finish to start the restore process.

| | |
|------------------|---|
| Virtual Machines | Summary: |
| Restore Mode | Original machine name: SP-WIN-DC01 |
| Secure Restore | New machine name: SP-WIN-DC01 |
| Reason | Restore point: less than a day ago (5:20 AM Thursday 2/24/2022) |
| Summary | Target host: 192.168.1.195 |
| | Target resource pool: Resources |
| | Target VM folder: vm |
| | Target datastore: datastore1 |
| | Network mapping: |
| | VM Network -> VM Network |
| | Secure Restore: Disabled |
| | Proxy: Automatic selection |
| | <input type="checkbox"/> Power on target VM after restoring |

< Previous Next > Finish Cancel

Bu ekranda geri dönme işleminin durumunu kontrol edebilirsiniz.

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Restoring VM

Name: **SP-WIN-DC01**Status: **In progress (0%)**

Restore type: Full VM Restore

Start time: 2/24/2022 5:41:26 AM

Initiated by: SP-WIN-VEEAM\Administrator

[Cancel restore task](#)

Statistics Reason Parameters **Log**

| Message | Duration |
|---|----------|
| ✔ Starting restore job | |
| ✔ Restoring from Backup Repository 1 | |
| ✔ Queued for processing at 2/24/2022 5:41:37 AM | |
| ▶ Processing SP-WIN-DC01 | 0:00:09 |
| ✔ Required backup infrastructure resources have been assigned | |
| ✔ Locking required backup files | 0:00:02 |
| ✔ 6 files to restore (40 GB) | |
| ✔ Restoring [datastore1] SP-WIN-DC01/SP-WIN-DC01.vmx | |
| ✔ Restoring file SP-WIN-DC01.vmx (3.8 KB) | |
| ✔ Restoring file SP-WIN-DC01.nvram (8.5 KB) | |
| ✔ Registering restored VM on host: 192.168.1.195, pool: Resources, folder: vm, stora... | 0:00:02 |

Close

Restoring VM

Name: **SP-WIN-DC01**Status: **In progress (8%)**

Restore type: Full VM Restore

Start time: 2/24/2022 5:41:26 AM

Initiated by: SP-WIN-VEEAM\Administrator

[Cancel restore task](#)

Statistics Reason Parameters **Log**

Restore started 3.2 GB / 40 GB

Objects remaining: 3 of 6 (36.8 GB left)

Restore rate: 20 MB/s

Time remaining: 00:31:22

Close

Geri dönme işlemimiz başarı ile tamamlandı. Şimdi sunucumuzu açalım.

Restoring VM

Name: **SP-WIN-DC01** Status: **Success**
Restore type: Full VM Restore Start time: 2/24/2022 5:41:26 AM
Initiated by: SP-WIN-VEEAM\Administrator End time: 2/24/2022 5:51:10 AM

Statistics Reason Parameters Log

40 GB / 40 GB

Objects remaining: 0 of 6 (0 B left) Restore rate: 74 MB/s
Time remaining: 00:00:00

Close

Sunucumuzu başarı ile açtık. Tekrar görüşmek üzere...

vmware ESXi

localhost.localdomain - Virtual Machines

SP-WIN-DC01

root@192.168.1.195 | Help | Search

Navigator

Host
Manage
Monitor

Virtual Machines
SP-WIN-DC02
Monitor
More VMs...

Storage
datastore1
Monitor
More storage...

Networking

Create / Register VM Console

Virtual machine
VMware vCenter Server
SP-WIN-DC02
SP-WIN-DC01

Quick filters...

Recent tasks

| Task | Target |
|--------------------|--------|
| Power On VM | SP |
| Remove Snapshot | SP |
| Revert To Snapshot | SP |
| Create Snapshot | SP |
| Reload | SP |
| Reconfig VM | SP |

Press Ctrl+Alt+Delete to unlock.

5:53
Thursday, February 24

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