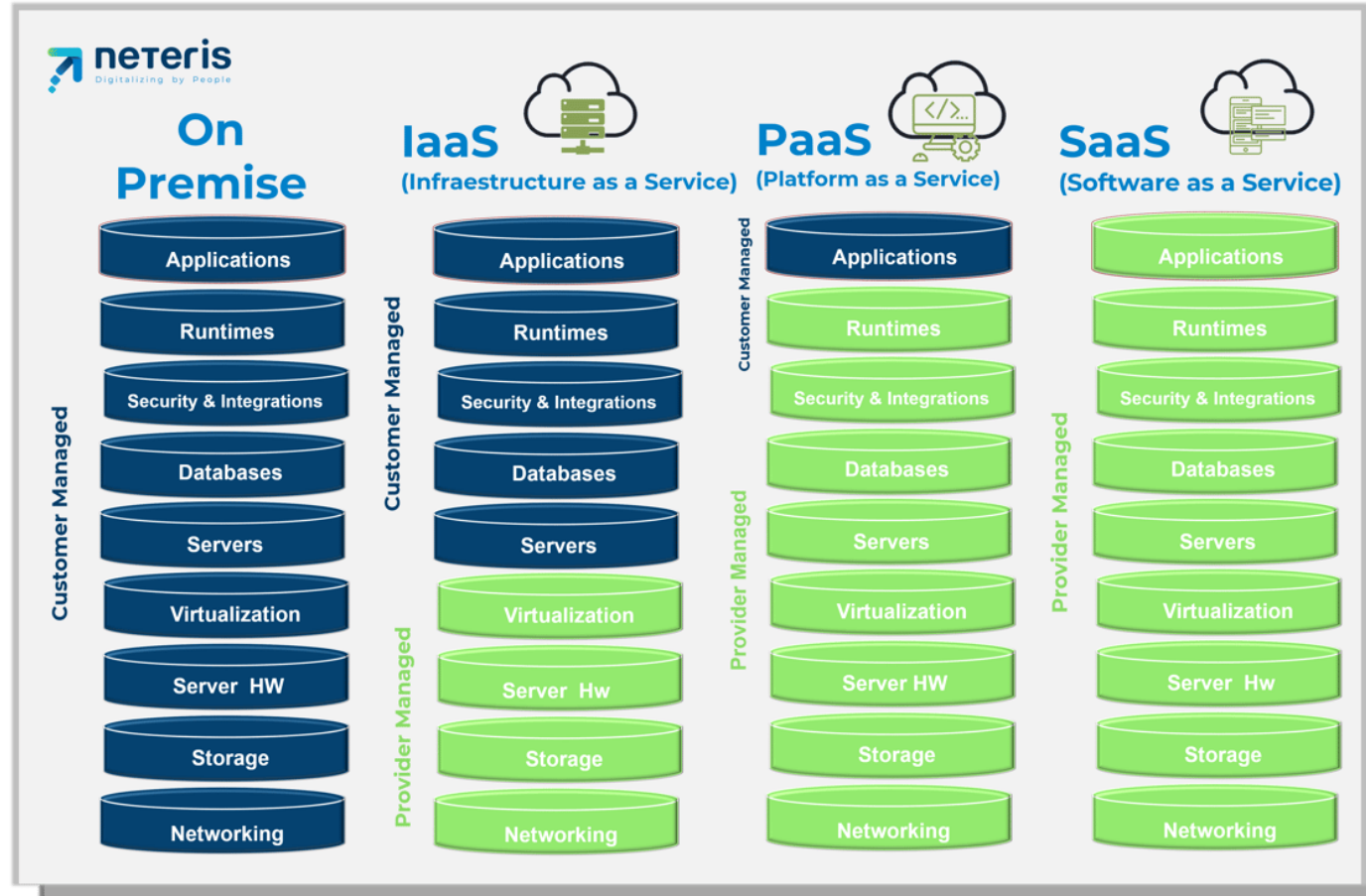


AZURE

KASIM BÖLÜCÜ

Azure Servisler



Hesaplama yapılması

- Lisanslar hibrit olarak seçildi fazladan lisans parası ödemiyoruz.
- Vmler son teknolojik olması açısından DsV5 olarak seçildi.
- DBler için SqlServer kurulumu eklendi fakat lisans hibrit olarak seçildiği için lisans parası eklenmedi.
- WebServer için Linux-CentOs işletim sistemi belirlendi çünkü sunucular için uygun bir işletim sistemi ayrıca DasV5 vm kullanıldı çünkü amd işlemciler sunucular için daha verimli çalışıyor. (Ve biraz farklılık olması adına)
- SFTP için A serisi vm seçilebilinirdi ama 1 yıl sonra kaldırılacağı için ve daha verimli olması açısından BsV2 yani B serisini uygun gördüm.
- Vmler için gerekli diskler tanımlandı ancak DB vmler için fazladan 1TB HDD disk eklenmesi gerekiyordu, bu diskleri Yönetilen Disk olarak tanımladım ve hesaplanabilmesi için ekledim.
- Dosya sunucusu yoğun depolama işleri için olan L serisi kullanılabiliyordu ama belirlenen özellikler için uygun vm yoktu.
- Backuplar haftada bir olacak şekilde 2 hafta ve 4 hafta süreyle saklanması için ayrı ayrı ayarlandı. Hepsinde yedekleme türü biraz daha güvenli ve uygun fiyatlı olması için ZRS olarak belirlendi. Yani aynı coğrafi bölge içinde farklı bir zone içinde yedekleme yapılacak. Daha güvenli olması için farklı region içinde yedekleme olan GRS kullanılabilir.
- Sadece Vm ler için ön ödeme maliyeti hesaplandı. Aylık hesaplama dışında Yıllık ve 3 Yıllık hesaplama için Tasarruf planı veya Ayrılmış örnekler seçebilirdim, ben Ayrılmış örnekler seçerek devam ettim çünkü bütün gereksinimlerimiz önceden belirlenmiş olarak kabul ettim ve bu sayede (1 yıl için %41) (3 yıl için ise %62) indirim oranı ile hesaplama yapmış oldum. Eğer müşteri farklı bir senaryo düşünüyor ise bu konuda değişiklik yapılmalı net bir bilgi sağlanarak.
- DRC için ise 9 tane instance sayısı belirleyerek Azure Site Recovery ekledim. Çünkü 9 tane korunması gereken sanal makineye sahibim.

Microsoft Azure Estimate										
BitirmeProjesi					AYLIK		1 Yıllık		3 Yıllık	
Service category	Service type	Custom name	Region	Description	Estimated monthly cost	Estimated upfront cost	Estimated monthly cost	Estimated upfront cost	Estimated monthly cost	Estimated upfront cost
Compute	Virtual Machines	ERP	West Europe	2 D4s v5 (4 vCPUs, 16 GB RAM) x 730 Hours (Pay as you go), Windows (AHB), OS Only; 1 managed disk – P30; Inter Region transfer type, 5 GB outbound data transfer from West Europe to East Asia	\$484,48	\$0,00	\$148,68	\$2.377,99	\$148,68	\$4.593,74
Compute	Virtual Machines	DB	West Europe	2 D4s v5 (4 vCPUs, 16 GB RAM) x 730 Hours (Pay as you go), Windows (AHB), SQL Enterprise (AHB); 2 managed disks– P30; Inter Region transfer type, 5 GB outbound data transfer from West Europe to East Asia	\$633,16	\$0,00	\$297,36	\$2.377,99	\$297,36	\$4.593,74
Compute	Virtual Machines	Web-Server	West Europe	1 D8as v5 (8 vCPUs, 32 GB RAM) x 730 Hours (Pay as you go), Linux, (Pay as you go); 1 managed disk – P30; Inter Region transfer type, 5 GB outbound data transfer from West Europe to East Asia	\$452,36	\$0,00	\$148,68	\$2.149,97	\$148,68	\$4.154,08
Compute	Virtual Machines	File-Server	West Europe	1 D4 v5 (4 vCPUs, 16 GB RAM) x 730 Hours (Pay as you go), Windows (AHB), OS Only; 3 managed disks – S30; Inter Region transfer type, 5 GB outbound data transfer from West Europe to East Asia	\$290,78	\$0,00	\$122,88	\$1.188,99	\$122,88	\$2.296,87
Compute	Virtual Machines	RDS-1	West Europe	1 D8s v5 (8 vCPUs, 32 GB RAM) x 730 Hours (Pay as you go), Windows (AHB), OS Only; 2 managed disks – P30; Inter Region transfer type, 5 GB outbound data transfer from West Europe to East Asia	\$633,16	\$0,00	\$297,36	\$2.377,03	\$297,36	\$4.594,01
Compute	Virtual Machines	RDS-2	West Europe	1 D8s v5 (8 vCPUs, 32 GB RAM) x 730 Hours (Pay as you go), Windows (AHB), OS Only; 2 managed disks – P30; Inter Region transfer type, 5 GB outbound data transfer from West Europe to East Asia	\$633,16	\$0,00	\$297,36	\$2.377,03	\$297,36	\$4.594,01
Compute	Virtual Machines	SFTP	West Europe	1 B2Is v2 (2 vCPUs, 4 GB RAM) x 730 Hours (Pay as you go), Windows (AHB), OS Only; 1 managed disk – S20; Inter Region transfer type, 5 GB outbound data transfer from West Europe to East Asia	\$56,80	\$0,00	\$21,76	\$248,00	\$21,76	\$479,08
Storage	Managed Disks	DB-1024GB-HDD	West Europe	Managed Disks, Standard HDD, S30 Disk Type 2 Disks, 100 Storage transactions; Pay as you go	\$81,97	\$0,00	\$81,97	\$0,00	\$81,97	\$0,00
Management and governance	Azure Backup	Backup-ERP	West Europe	Azure VMs, 2 Instance(s) x 1 TB, ZRS Redundancy, Moderate Average Daily Churn, 0 TB Average monthly snapshot usage data	\$134,55	\$0,00	\$134,55	\$0,00	\$134,55	\$0,00
Management and governance	Azure Backup	Backup-DB	West Europe	Azure VMs, 2 Instance(s) x 3 TB, ZRS Redundancy, Moderate Average Daily Churn, 0 TB Average monthly snapshot usage data	\$394,61	\$0,00	\$394,61	\$0,00	\$394,61	\$0,00
Management and governance	Azure Backup	Backup-WEB	West Europe	Azure VMs, 1 Instance(s) x 1 TB, ZRS Redundancy, Moderate Average Daily Churn, 0 TB Average monthly snapshot usage data	\$72,43	\$0,00	\$72,43	\$0,00	\$72,43	\$0,00
Management and governance	Azure Backup	Backup-FileServer	West Europe	Azure VMs, 1 Instance(s) x 3 TB, ZRS Redundancy, Moderate Average Daily Churn, 0 TB Average monthly snapshot usage data	\$181,82	\$0,00	\$181,82	\$0,00	\$181,82	\$0,00
Management and governance	Azure Backup	Backup-RDS-1	West Europe	Azure VMs, 1 Instance(s) x 2 TB, ZRS Redundancy, Moderate Average Daily Churn, 0 TB Average monthly snapshot usage data	\$124,55	\$0,00	\$124,55	\$0,00	\$124,55	\$0,00
Management and governance	Azure Backup	Backup-RDS-2	West Europe	Azure VMs, 1 Instance(s) x 2 TB, ZRS Redundancy, Moderate Average Daily Churn, 0 TB Average monthly snapshot usage data	\$134,87	\$0,00	\$134,87	\$0,00	\$134,87	\$0,00
Management and governance	Azure Backup	Backup-SFTP	West Europe	Azure VMs, 1 Instance(s) x 512 GB, ZRS Redundancy, Moderate Average Daily Churn, 0 GB Average monthly snapshot usage data	\$41,22	\$0,00	\$41,22	\$0,00	\$41,22	\$0,00
Management and governance	Azure Site Recovery		North Europe	0 Customer instances, 9 Azure instances	\$225,00	\$0,00	\$225,00	\$0,00	\$225,00	\$0,00
Support			Support		\$0,00	\$0,00	\$0,00	\$0,00	\$0,00	\$0,00
			Licensing Program	Microsoft Customer Agreement (MCA)						
	Billing Account									
	Billing Profile									
	Total				\$4.574,91	\$0,00	\$2.725,09	\$13.096,99	\$2.725,09	\$25.305,54

Resource Groups Oluřturma

Azure Portal

[Home](#) > [Resource groups](#) >

Create a resource group ...

Basics Tags Review + create

Resource group - A container that holds related resources for an Azure solution. The resource group can include all the resources for the solution, or only those resources that you want to manage as a group. You decide how you want to allocate resources to resource groups based on what makes the most sense for your organization. [Learn more](#)

Project details

Subscription * ⓘ Azure-sub-demo ▼
Resource group * ⓘ rg-App-eu ✓

Resource details

Region * ⓘ (Europe) West Europe ▼

[Review + create](#)

[< Previous](#)

[Next : Tags >](#)

[Home](#) > [Resource groups](#) >

Create a resource group ...

✓ Validation passed.

Basics Tags Review + create

Basics

Subscription	Azure-sub-demo
Resource group	rg-App-eu
Region	West Europe

Tags

None

[Create](#)

[< Previous](#)

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[Download a template for automation](#)

VM Oluřturma

Azure Portal

Project details

Select the subscription to manage deployed resources and costs. Use resource groups like folders to organize and manage all your resources.

Subscription * ⓘ

Azure-sub-demo

Resource group * ⓘ

(New) rg-DB-eu

[Create new](#)

Instance details

Virtual machine name * ⓘ

vm-DB-1

Region * ⓘ

(Europe) West Europe

Availability options ⓘ

No infrastructure redundancy required

Security type ⓘ

Trusted launch virtual machines

[Configure security features](#)

Image * ⓘ

Windows Server 2022 Datacenter: Azure Edition - x64 Gen2 (free services el

[See all images](#) | [Configure VM generation](#)

VM architecture ⓘ

☐ Arm64

☒ x64

i Arm64 is not supported with the selected image.

Size * ⓘ

Standard_D4s_v5 - 4 vcpus, 16 GiB memory (\$302,22/month)

[See all sizes](#)

Administrator account

Username * ⓘ

azureuser

Password * ⓘ

.....

Confirm password * ⓘ

.....

Inbound port rules

Select which virtual machine network ports are accessible from the public internet. You can specify more limited or granular network access on the Networking tab.

Public inbound ports * ⓘ

☒ None

☐ Allow selected ports

Select inbound ports

Select one or more ports

i All traffic from the internet will be blocked by default. You will be able to change inbound port rules in the VM > Networking page.

[Review + create](#)

[< Previous](#)

[Next : Disks >](#)

[Review + create](#)

[< Previous](#)

[Next : Disks >](#)

Azure Portal

[Home](#) > [Create a resource](#) > [Create a virtual machine](#) >

Select a VM size ...

Search by VM size...

vCPUs : All

RAM (GiB) : All

Display cost : Monthly

+ Add filter

Showing 776 VM sizes. | Subscription: Azure-sub-demo | Region: West Europe | Current size: Standard D4s v5 | Image: Windows Server 2022 Datacenter: Azure Edition | [Learn more about VM sizes](#)

Group by series

VM Size	Type	vCPUs	RAM (GiB)	Data disks	Max IOPS	Temp storage (GiB)	Premium disk	Cost/month
B2ms	General purpose	2	8	4	1920	16	Supported	\$75,92
DS2_v2	General purpose	2	7	8	6400	14	Supported	\$194,18
B4ms	General purpose	4	16	8	2880	32	Supported	\$151,84
D4s_v3	General purpose	4	16	8	6400	32	Supported	\$309,52
DS3_v2	General purpose	4	14	16	12800	28	Supported	\$389,09
D-Series v5		The 5th generation D family sizes recommended for your general purpose needs						
D2ds_v5	General purpose	2	8	4	3750	75	Supported	\$166,44
D2lds_v5	General purpose	2	4	4	3750	75	Supported	\$148,19
D2ls_v5	General purpose	2	4	4	3750	0	Supported	\$137,97
D2s_v5	General purpose	2	8	4	3750	0	Supported	\$151,11
D4ds_v5	General purpose	4	16	8	6400	150	Supported	\$332,88
D4lds_v5	General purpose	4	8	8	6400	150	Supported	\$296,38
D4ls_v5	General purpose	4	8	8	6400	0	Supported	\$275,94
D4s_v5	General purpose	4	16	8	6400	0	Supported	\$302,22
D-Series v4		The 4th generation D family sizes for your general purpose needs						
B-Series v2		Ideal for workloads that do not need continuous full CPU performance						
B-Series		Ideal for workloads that do not need continuous full CPU performance						

Azure Portal

[Home](#) > [Create a resource](#) > [Create a virtual machine](#) >

Create a new disk ...

Create a new disk to store applications and data on your VM. Disk pricing varies based on factors including disk size, storage type, and number of transactions. [Learn more](#)

Name *	<input type="text" value="vm-DB-1_DataDisk_0"/>
Source type *	<input type="text" value="None (empty disk)"/>
Size *	<div>1024 GiB Premium SSD LRS Change size</div>
Key management	<input type="text" value="Platform-managed key"/>
Enable shared disk	<input type="radio"/> Yes <input checked="" type="radio"/> No
Delete disk with VM	<input type="checkbox"/>

OK

[Home](#) > [Windows Server](#) > [Create a virtual machine](#) >

Create a new disk ...

Create a new disk to store applications and data on your VM. Disk pricing varies based on factors including disk size, storage type, and number of transactions. [Learn more](#)

Name *	<input type="text" value="vm-DB-1_DataDisk_1"/>
Source type *	<input type="text" value="None (empty disk)"/>
Size *	<div>1024 GiB Standard HDD LRS Change size</div>
Key management	<input type="text" value="Platform-managed key"/>
Enable shared disk	<input type="radio"/> Yes <input checked="" type="radio"/> No
Delete disk with VM	<input type="checkbox"/>

Enable shared disk

i Shared disk not available for the selected size.

OK

Azure Portal

Select a disk size ...

Browse available disk sizes and their features.

Storage type ⓘ

Standard HDD (locally-redundant storage) ▾

Size	Performance tier	Provisioned IOPS	Provisioned throughput	Max Shares ⓘ
32 GiB	\$4	500	60	-
64 GiB	\$6	500	60	-
128 GiB	\$10	500	60	-
256 GiB	\$15	500	60	-
512 GiB	\$20	500	60	2
1024 GiB	\$30	500	60	5
2048 GiB	\$40	500	60	5
4096 GiB	\$50	500	60	5
8192 GiB	\$60	1300	300	5
16384 GiB	\$70	2000	500	5
32767 GiB	\$80	2000	500	5

Custom disk size (GiB) * ⓘ

1024

OK

[Home](#) > [Windows Server](#) >

Create a virtual machine ...

Azure VMs have one operating system disk and a temporary disk for short-term storage. You can attach additional data disks. The size of the VM determines the type of storage you can use and the number of data disks allowed. [Learn more](#) ⓘ

VM disk encryption

Azure disk storage encryption automatically encrypts your data stored on Azure managed disks (OS and data disks) at rest by default when persisting it to the cloud.

Encryption at host ⓘ

☐

❗ Encryption at host is not registered for the selected subscription. [Learn more about enabling this feature](#) ⓘ

OS disk

OS disk type * ⓘ

Premium SSD (locally-redundant storage) ▾

Delete with VM ⓘ

☒

Key management ⓘ

Platform-managed key ▾





Enable Ultra Disk compatibility ⓘ

☐

Ultra disk is not supported with selected security type.

Data disks for vm-DB-1

You can add and configure additional data disks for your virtual machine or attach existing disks. This VM also comes with a temporary disk.

LUN	Name	Size (GiB)	Disk type	Host caching	Delete with VM ⓘ	
0	vm-DB-1_DataDisk_0	1024	Premium SSD LRS	Read-only ▾	<input type="checkbox"/>	 
1	vm-DB-1_DataDisk_1	1024	Standard HDD LRS	Read-only ▾	<input type="checkbox"/>	 

[Create and attach a new disk](#)

[Attach an existing disk](#)

Review + create

< Previous

Next : Networking >

Azure Bash

```
az vm create \  
  --resource-group rg-App-eu \  
  --name vm-ERP-1 \  
  --image Win2019Datacenter \  
  --public-ip-sku Standard \  
  --admin-username azureuser \  
  --admin-password 'Password1232' \  
  --size Standard_D4s_v5 \  
  --os-disk-size-gb 1024 \  

```

```
az vm list --output table
```

```
kasim [ ~ ]$ az vm list --output table  
Name          ResourceGroup  Location  Zones  
-----  
vm-ERP-1      RG-APP-EU      westeurope  
kasim [ ~ ]$
```

VM Kurulumundan Sonra Disk Ekleme

Azure Portal

Home > vm-DB-1

vm-DB-1 | Disks ☆ ...
Virtual machine

Search

Save Discard Refresh Additional settings Feedback Troubleshoot

- Overview
- Activity log
- Access control (IAM)
- Tags
- Diagnose and solve problems

Settings

- Networking
- Connect
- Windows Admin Center
- Disks**
- Size
- Microsoft Defender for Cloud
- Advisor recommendations
- Extensions + applications
- Availability + scaling
- Configuration

OS disk

Swap OS disk

Disk name	Storage type	Size (GiB)	Max IOPS	Max throughput (...)	Encryption ⓘ	Host caching ⓘ
vm-DB-1_OsDisk_1_751765e3a7154728ba0f8d8239c963b8	Premium SSD LRS	1024	5000	200	SSE with PMK	Read/write ▾

Data disks






Filter by name

Showing 1 of 1 attached data disks

+ Create and attach a new disk Attach existing disks

LUN ⓘ	Disk name	Storage type	Size (GiB)	Max IOPS	Max throughput (...)	Encryption ⓘ	Host caching ⓘ
0	Disk-HDD	Standard HDD LRS	1024	500	60	SSE with PMK	None ▾

Azure Portal


 Save  Discard  Refresh |  Additional settings  Feedback  Troubleshoot

OS disk



 Swap OS disk



Disk name	Storage type	Size (GiB)	Max IOPS	Max throughput (...)	Encryption ⓘ	Host caching ⓘ
vm-DB-1_OsDisk_1_751765e3a7154728ba0f8d8239c963b8	Premium SSD LRS	1024	5000	200	SSE with PMK	Read/write ▼

Data disks

 Filter by name

Showing 2 of 2 attached data disks

 Create and attach a new disk  Attach existing disks

LUN ⓘ	Disk name	Storage type	Size (GiB)	Max IOPS	Max throughput (...)	Encryption ⓘ	Host caching ⓘ
0	Disk-HDD	Standard HDD LRS	1024	500	60	SSE with PMK	None ▼ 
1	Disk-SSD	Premium SSD LRS	1024	5000	200	SSE with PMK	Read-only ▼ 

Azure Bash

```
az vm create \  
  --resource-group rg-DB-eu \  
  --name vm-DB-1 \  
  --image Win2019Datacenter \  
  --public-ip-sku Standard \  
  --admin-username azureuser \  
  --admin-password 'Password1232' \  
  --size Standard_D4s_v5 \  
  --os-disk-size-gb 1024 \
```

Diski oluşturun

```
az disk create \  
  --resource-group rg-DB-eu \  
  --name Disk-HDD \  
  --size-gb 1024 \  
  --sku Standard_LRS \  
  --location westeurope
```

```
az vm stop --resource-group rg-DB-eu --name vm-DB-1
```

```
az vm disk attach --resource-group rg-DB-eu --vm-name vm-DB-1 --name Disk-HDD --size-gb 1024 --sku Standard_LRS
```

```
az vm start --resource-group rg-DB-eu --name vm-DB-1
```

```
kasim [ ~ ]$ az disk create \  
  --resource-group rg-DB-eu \  
  --name Disk-HDD \  
  --size-gb 1024 \  
  --sku Standard_LRS \  
  --location westeurope  
  
# Sanal makineyi durdur  
az vm stop --resource-group rg-DB-eu --name vm-DB-1  
  
# Diski ekleyin  
az vm disk attach --resource-group rg-DB-eu --vm-name vm-DB-1 --name Disk-HDD --sku Standard_LRS  
  
# Sanal makineyi yeniden başlat  
az vm start --resource-group rg-DB-eu --name vm-DB-1
```

Azure Backup Silinmesi

Azure Portal

[Home](#) > [Resource groups](#) > [rg-SFTP-eu](#) > [vault196](#) >

Delete Recovery Services vault ...

vault196

- ☐ Delete manually
- ☒ Delete using PowerShell script


Delete using PowerShell script

Use Powershell script to perform vault delete operation only if you're sure about deleting all contents of the vault. The script will recursively delete all the backup items and eventually the entire vault. [Learn more](#).

Step 1: Seek permissions via Multi-User Authorization

Seek permissions via Multi-User Authorization [Go to PIM](#) | [View procedure steps](#)

Step 2: Download the script and run it in the PowerShell console

 The minimum version required to run the script is PowerShell7. Open the PowerShell console and upgrade to PowerShell7 by running the commands mentioned in the [documentation](#).



Generate and download script

Note: Operations could be long-running based on backup configuration and datasources.
This script will perform the following:

1. Disable soft delete and security features
2. Delete backup items
3. Unregister servers and storage accounts
4. Delete Site Recovery items
5. Remove private endpoints

Cancel

Azure Backup Kurulumu

Azure Portal

Home > rg-SFTP-eu > vm-SFTP-eu

vm-SFTP-eu | Backup ☆ ...
Virtual machine

Search

Microsoft Defender for Cloud
Advisor recommendations
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Configuration
Identity
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Operations

Bastion
Auto-shutdown
Backup
Disaster recovery
Updates
Inventory
Change tracking
Automanage
Configuration management (Preview)
Policies
Run command

Monitoring

Welcome to Azure Backup for Azure VMs
Simple and reliable VM backup to the Azure. [Learn more](#). Charges are based on the number and size of VMs being protected. [Learn more about pricing](#).

Review the following information and click on 'Enable backup' to start protecting your VM.

Recovery Services vault ☐ Create new ☐ Select existing

Backup vault * vault324 ✓

Resource group rg-SFTP-eu ✓
[Create new](#)

Policy sub type *

☒ Standard
✓ Once a day backup
✓ 1-5 days operational tier
✓ Vault tier
ZRS resilient snapshot tier
Support for Trusted Azure VM

☐ Enhanced
✓ Multiple backups per day
✓ 1-30 days operational tier
✓ Vault tier
✓ ZRS resilient snapshot tier
✓ Support for Trusted Azure VM

Choose backup policy * ☐ (new) DailyPolicy-lmyv4nc1 ✓
[Edit this policy](#)

i The list contains the policies pertaining to the selected policy sub type. [Learn more](#).

Enable backup Cancel

Bash

Azure Portal

The screenshot displays the Azure Portal interface for configuring a backup policy for a virtual machine. The left sidebar shows the navigation menu with 'Backup' selected. The main area is divided into two panels: 'Policy Details' and 'Create policy'.

Policy Details:

- Resource group:** rg-SFTP-eu
- Policy sub type:** Standard
 - Once a day backup
 - 1-5 days operational tier
 - Vault tier
 - ZRS resilient snapshot tier
 - Support for Trusted Azure VM
- Enhanced:**
 - Multiple backups per day
 - 1-30 days operational tier
 - Vault tier
 - ZRS resilient snapshot tier
 - Support for Trusted Azure VM
- Choose backup policy:** (new) DailyPolicy-lmyv4nc1
- Policy Details:** Full backup
- Backup frequency:** Daily at 8:00 AM UTC
- Instant restore:** Retain instant recovery snapshot(s) for 2 day(s)
- Retention of daily backup point:** Retain backup taken every day at 8:00 AM for 30 Day(s)

Create policy:

- Policy name:** WeeklyPolicy-lmyv4nc1
- Backup schedule:**
 - Frequency: Weekly
 - Days: Sunday
 - Time: 05:00
 - Timezone: (UTC+03:00) Istanbul
- Instant restore:** Retain instant recovery snapshot(s) for 5 Day(s)
- Retention range:**
 - ☐ Retention of daily backup point: Not Configured
 - ☒ Retention of weekly backup point:
 - On: Sunday
 - At: 05:00
 - For: 4 Week(s)
 - ☐ Retention of monthly backup point: Not Configured
 - ☐ Retention of yearly backup point: Not Configured

A blue arrow points to the 'On' dropdown in the 'Retention range' section, specifically to the 'Sunday' option.

Azure Portal

Home > Resource groups >

Resource groups

Default Directory (sumak1997@hotmail.onmicrosoft.com)

+ Create Manage view ▾ ...

Filter for any field...

Name ↑↓

- cloud-shell-storage-west europe
- NetworkWatcherRG
- rg-App-eu
- rg-FileServer-eu
- rg-RDS-eu
- rg-SFTP-eu

rg-SFTP-eu Resource group

Search

+ Create Manage view ▾ Delete resource group Refresh Export to CSV Open query Assign tags Move ▾ Delete Export template Open in mobile

Overview

- Activity log
- Access control (IAM)
- Tags
- Resource visualizer
- Events

Settings

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- Policies
- Properties
- Locks

Cost Management

- Cost analysis
- Cost alerts (preview)
- Budgets
- Advisor recommendations

Monitoring

- Insights (preview)
- Alerts

Essentials

Subscription (move): [Azure-sub-demo](#) Deployments: [2 Succeeded](#)

Subscription ID: 80ad0b99-f9fd-4dec-875f-0adc9dbfa7ef Location: West Europe

Tags (edit): [Add tags](#)

Resources

Filter for any field... Type equals all Location equals all Add filter

Showing 1 to 7 of 7 records. ☐ Show hidden types

Name ↑↓	Type ↑↓	Location ↑↓	
<input type="checkbox"/> vault196	Recovery Services vault	West Europe	...
<input type="checkbox"/> vm-SFTP-eu	Virtual machine	West Europe	...
<input type="checkbox"/> vm-SFTP-eu_OsDisk_1_6a3367fdf58248249cef042d306b30e8	Disk	West Europe	...
<input type="checkbox"/> vm-SFTP-euNSG	Network security group	West Europe	...
<input type="checkbox"/> vm-SFTP-euPublicIP	Public IP address	West Europe	...
<input type="checkbox"/> vm-SFTP-euVMNic	Network Interface	West Europe	...
<input type="checkbox"/> vm-SFTP-euVNET	Virtual network	West Europe	...

< Previous Page 1 of 1 Next >

[Give feedback](#)

Azure DRC Kurulumu

Azure Portal

Home > Resource groups > rg-SFTP-eu > vm-SFTP-eu



vm-SFTP-eu | Disaster recovery ☆ ⋮
Virtual machine

Search

Microsoft Defender for Cloud

Advisor recommendations

Extensions + applications

Availability + scaling

Configuration

Identity

Properties

Locks

Operations

Bastion

Auto-shutdown

Backup

Disaster recovery

Updates

Inventory

Change tracking

Automanage

Configuration management
(Preview)

Policies

Run command

Monitoring

Basics

Advanced settings

Review + Start replication



Welcome to Azure Site Recovery

You can replicate your virtual machines to another Azure region for business continuity and disaster recovery needs. [Learn more about Azure Site Recovery.](#)

Disaster recovery between availability zones? ⓘ

No

Target region * ⓘ

North Europe



Source region (West Europe)

Selected target region (North Europe)

Available target regions

Review + Start replication

Previous

Next : Advanced settings

Azure Portal

Home > Resource groups > rg-SFTP-eu > vm-SFTP-eu

vm-SFTP-eu | Disaster recovery

Virtual machine

Search

- Microsoft Defender for Cloud
- Advisor recommendations
- Extensions + applications
- Availability + scaling
- Configuration
- Identity
- Properties
- Locks
- Operations
 - Bastion
 - Auto-shutdown
 - Backup
 - Disaster recovery
- Updates
- Inventory
- Change tracking
- Automanage
- Configuration management (Preview)
- Policies
- Run command
- Monitoring

Basics **Advanced settings** Review + Start replication

Target settings

General settings	Source	Target	Info
Subscription	Azure-sub-demo	Azure-sub-demo	
VM resource group	rg-SFTP-eu	(new) rg-SFTP-eu-asr	
Virtual network	vm-SFTP-euVNET	(new) vm-SFTP-euVNET-asr	
Availability	Single instance	Single instance Availability set Availability zone	
Proximity placement group	Not Applicable	Select	

Capacity Reservation Settings

Reserve a capacity at the destination location - for this Virtual machine size - Standard_B2Is_v2
[Why to reserve capacity at the destination location?](#)

Capacity Reservation Groups

Storage settings [\[+\] Show details](#)

A new cache storage account and 1 replica managed disk(s) will be created.

Review + Start replication Previous Next : Review + Start replication

Azure Portal

[Home](#) >

Site Recovery jobs ...

Site-recovery-vault-northeurope



Filter



Export jobs



Azure Site Recovery jobs can now be viewed across subscriptions, regions, vaults etc., Click here to view all replication jobs →

Filter items...

Name	↑↓	Status	↑↓	Type	↑↓	Item	↑↓	Start time	↑↓	Duration	↑↓
Map Networks		✓ Successful		Network		vm-sftp-euvnet-asr		25.09.2023 15:53:51		00:00:02	
Create protection container		✓ Successful		Cloud		asr-a2a-default-northeurope-container		25.09.2023 15:52:33		00:00:09	
Map Networks		✓ Successful		Network		vm-sftp-euvnet		25.09.2023 15:52:33		00:01:02	
Create a site		✓ Successful		Server		asr-a2a-default-northeurope		25.09.2023 15:50:59		00:01:26	
Create protection container		✓ Successful		Cloud		asr-a2a-default-west europe-container		25.09.2023 15:50:55		00:00:00	
Create a site		✓ Successful		Server		asr-a2a-default-west europe		25.09.2023 15:49:21		00:01:23	






Azure Portal



[Home](#) >

Resource groups

Default Directory (sumak1997hotmail.onmicrosoft.com)













 Create  Manage view   Refresh  Export to CSV  Open query |  Assign tags

Filter for any field... Subscription equals all Location equals all   Add filter

Showing 1 to 7 of 7 records.

No grouping  List view 

<input type="checkbox"/> Name 	Subscription 	Location 	
<input type="checkbox"/>  cloud-shell-storage-west europe	Azure-sub-demo	West Europe	...
<input type="checkbox"/>  NetworkWatcherRG	Azure-sub-demo	West Europe	...
<input type="checkbox"/>  rg-App-eu	Azure-sub-demo	West Europe	...
<input type="checkbox"/>  rg-FileServer-eu	Azure-sub-demo	West Europe	...
<input type="checkbox"/>  rg-RDS-eu	Azure-sub-demo	West Europe	...
<input type="checkbox"/>  rg-SFTP-eu	Azure-sub-demo	West Europe	...
<input type="checkbox"/>  rg-SFTP-eu-asr	Azure-sub-demo	North Europe	...









Azure Sanal VM Kullanıcı Adı ve Şifre Değiştirme

Azure Portal

Microsoft Azure

Upgrade

Search resources, services, and docs (G+J)



sumak_1997@hotmail.c...
DEFAULT DIRECTORY (SUMAK199...

Home > rg-SFTP-eu > vm-SFTP-eu

vm-SFTP-eu | Reset password

Virtual machine

Search

Monitoring

Insights

Alerts

Metrics

D diagnostic settings

Logs

Connection monitor (classic)

Workbooks

Automation

Tasks (preview)

Export template

Help

Resource health

Boot diagnostics

Performance diagnostics

VM Inspector (Preview)

Reset password

Redeploy + reapply


Ubuntu Advantage support plan


Serial console


Connection troubleshoot

Support + Troubleshooting

This uses the VMAccessForLinux extension to reset the credentials of an existing user or create a new user with sudo privileges, and reset the SSH configuration.
[Learn more](#)

Mode * 
☒ Reset password
☐ Add SSH public key
☐ Reset configuration only

Username * 

Password *
 

Confirm password *

Update

Azure RDS Kurulumu

Azure Portal

The screenshot displays the Azure Portal interface for a Network Security Group (NSG) named 'vm-SFTP-euNSG'. The top navigation bar includes the Microsoft Azure logo, an 'Upgrade' button, a search bar, and user information for 'sumak_1997@hotmail.c...'. The left sidebar contains navigation links for Overview, Activity log, Access control (IAM), Tags, Diagnose and solve problems, Settings (Inbound security rules, Outbound security rules, Network interfaces, Subnets, Properties, Locks), Monitoring (Alerts, Diagnostic settings, Logs, NSG flow logs), Automation (Tasks (preview), Export template), and Help.

The main content area shows the 'Essentials' section for the NSG, including its resource group (rg-SFTP-eu), location (West Europe), subscription (Azure-sub-demo), and subscription ID. It also indicates custom security rules (1 inbound, 0 outbound) and associated resources (0 subnets, 1 network interfaces). A 'JSON View' link is available.

Below the essentials, there is a table of security rules. The table has columns for Priority, Name, Port, Protocol, Source, Destination, and Action. It is filtered by 'Port == all', 'Protocol == all', 'Source == all', 'Destination == all', and 'Action == all'. The rules are categorized into Inbound Security Rules and Outbound Security Rules.

Priority	Name	Port	Protocol	Source	Destination	Action
Inbound Security Rules						
1000	default-allow-ssh	22	Tcp	Any	Any	Allow
65000	AllowVnetInBound	Any	Any	VirtualNetwork	VirtualNetwork	Allow
65001	AllowAzureLoadBalancerInBound	Any	Any	AzureLoadBalancer	Any	Allow
65500	DenyAllInBound	Any	Any	Any	Any	Deny
Outbound Security Rules						
65000	AllowVnetOutBound	Any	Any	VirtualNetwork	VirtualNetwork	Allow
65001	AllowInternetOutBound	Any	Any	Any	Internet	Allow
65500	DenyAllOutBound	Any	Any	Any	Any	Deny

Azure Portal

The screenshot displays the Microsoft Azure Portal interface. The top navigation bar includes the 'Microsoft Azure' logo, an 'Upgrade' button, a search bar, and user information for 'sumak_1997@hotmail.c...'. The main content area shows the configuration for a Network Security Group (NSG) named 'vm-SFTP-euNSG' in the 'rg-SFTP-eu' resource group. The left sidebar contains navigation links for Overview, Activity log, Access control (IAM), Tags, Diagnose and solve problems, Settings (Inbound security rules, Outbound security rules, Network interfaces, Subnets, Properties, Locks), Monitoring (Alerts, Diagnostic settings, Logs, NSG flow logs), Automation (Tasks (preview), Export template), and Help.

The 'Overview' tab is selected, showing the NSG's location (West Europe), subscription (Azure-sub-demo), and subscription ID (80ad0b99-f9fd-4dec-875f-0adc9dbfa7ef). Below this, a table lists the security rules. The 'default-allow-ssh' rule is highlighted, showing its configuration details in a right-hand pane.

Priority	Name	Port	Protocol	Source
1000	default-allow-ssh	3389	TCP	20.71.31.251
65000	AllowVnetInBound	Any	Any	VirtualNetwork
65001	AllowAzureLoadBalancerInBound	Any	Any	AzureLoadBalancer
65500	DenyAllInBound	Any	Any	Any

The 'default-allow-ssh' rule configuration details are as follows:

- Source:** IP Addresses
- Source IP addresses/CIDR ranges:** 20.71.31.251
- Source port ranges:** *
- Destination:** IP Addresses
- Destination IP addresses/CIDR ranges:** 188.119.17.65
- Service:** RDP
- Destination port ranges:** 3389
- Protocol:** TCP
- Action:** Allow

Buttons for 'Save' and 'Cancel' are visible at the bottom of the configuration pane, along with a 'Give feedback' link.

Azure Backup Restore Testi

Azure Portal

- Yedekleme işlemlerinde geri yükleme testleri yapmak, verilerinizi kaybetmeniz durumunda onları kurtarmanızı sağlayacak önemli bir adımdır.
- Geri yükleme testleri, yedekleme işleminin başarılı olup olmadığını ve verilerinizi kurtarabileceğinizi doğrulamanıza yardımcı olur.
- Sol menüden “Recovery Services vaults” seçeneğini seçin.
- Kurtarma hizmeti kasasını seçin.
- “Backup items” sekmesine tıklayın.
- Yedeklenen öğeyi seçin.
- “Restore” düğmesine tıklayın.
- Geri yüklemek istediğiniz verileri seçin ve “OK” düğmesine tıklayın.

Azure Portal

Microsoft Azure

Upgrade

Search resources, services, and docs (G+/)

sumak_1997@hotmail.c...
DEFAULT DIRECTORY (SUMAK199...

Home >

Recovery Services vaults

Default Directory (sumak1997hotmail.onmicrosoft.com)

Create

Manage view

Refresh

Export to CSV

Open query

Assign tags

Filter for any field...

Subscription equals all

Resource group equals all

Location equals all

Immutability equals all

Add filter

Showing 1 to 2 of 2 records.

No grouping

List view

<input type="checkbox"/> Name	Type	Immutability	Resource group	Location	Subscription
<input type="checkbox"/> Site-recovery-vault-northeurope	Recovery Services vault	Disabled	Site-recovery-vault-RG	North Europe	Azure-sub-demo
<input type="checkbox"/> vault196	Recovery Services vault	Disabled	rg-SFTP-eu	West Europe	Azure-sub-demo

< Previous

Page 1 of 1

Next >

Give feedback


Azure Portal


Home > Recovery Services vaults > vault196 | Backup items >

Backup Items (Azure Virtual Machine) ...



vault196

 Refresh  Add  Filter

 With Backup center, you can view all your laasVM items across vaults, subscriptions and regions in a single pane of glass. Click here to use the new experience. →

 All data fetched from the service.

 Filter items ...

Name ↑↓	Resource Group ↑↓	Backup Pre-Check	Last Backup Status	Latest restore point ↑↓	Details
vm-SFTP-eu	rg-SFTP-eu	 Passed	 Success	25.09.2023 16:01:39	View details ...

< Previous Page 1 of 1 Next >

Azure Portal

Microsoft Azure

Upgrade

Search resources, services, and docs (G+)

sumak_1997@hotmail.c...
DEFAULT DIRECTORY (SUMAK199...

Home > Recovery Services vaults > vault196 | Backup items > Backup Items (Azure Virtual Machine) >

Restore Virtual Machine

vm-SFTP-eu

Restore allows you to restore VM/disks from a selected Restore Point.

Restore point *

No Restore Point Selected

Select

Restore

Select restore point

vm-SFTP-eu

Start Date

11.09.2023

End Date

25.09.2023

Recovery point consistency

All restore points

CRASH CONSISTENT

APPLICATION CONSISTENT

FILE-SYSTEM CONSISTENT

Time	Consistency	Recovery Type
25.09.2023 05 4:01:39	File-system Consistent	Snapshot

OK

Cancel

Azure Portal

Microsoft Azure

Upgrade

Search resources, services, and docs (G+/)

sumak_1997@hotmail.c...
DEFAULT DIRECTORY (SUMAK199...

Home >

Site Recovery jobs ...

Site-recovery-vault-northeurope

Filter Export jobs

Azure Site Recovery jobs can now be viewed across subscriptions, regions, vaults etc., Click here to view all replication jobs →

Filter items...

Name	↑↓	Status	↑↓	Type	↑↓	Item	↑↓	Start time	↑↓	Duration	↑↓
Test failover cleanup		Successful		Protected item		vm-SFTP-eu		25.09.2023 17:48:08		00:01:11	
Test failover		Successful		Protected item		vm-SFTP-eu		25.09.2023 17:40:28		00:03:29	
Finalize protection on the recovery virtual machine		Successful		Protected item		vm-sftp-eu		25.09.2023 16:55:34		00:00:05	
Finalize protection on the primary virtual machine		Successful		Protected item		vm-sftp-eu		25.09.2023 16:45:02		00:00:02	
Protection configuration		Successful		Cloud		asr-a2a-default-northeurope-container		25.09.2023 16:15:05		00:00:03	
Protection configuration		Successful		Cloud		asr-a2a-default-vesteurope-container		25.09.2023 16:15:03		00:00:01	
Enable replication		Successful		Protected item		vm-sftp-eu		25.09.2023 16:14:44		00:11:12	
Associate replication policy		Successful		Replication policy		24-hour-retention-policy		25.09.2023 16:12:07		00:02:22	
Associate replication policy		Successful		Replication policy		24-hour-retention-policy		25.09.2023 16:10:00		00:01:58	
Create replication policy		Successful		Replication policy		24-hour-retention-policy		25.09.2023 16:09:29		00:00:00	
Map Networks		Successful		Network		vm-sftp-euvnet-asr		25.09.2023 15:53:51		00:00:02	
Create protection container		Successful		Cloud		asr-a2a-default-northeurope-container		25.09.2023 15:52:33		00:00:09	
Map Networks		Successful		Network		vm-sftp-euvnet		25.09.2023 15:52:33		00:01:02	
Create a site		Successful		Server		asr-a2a-default-northeurope		25.09.2023 15:50:59		00:01:26	
Create protection container		Successful		Cloud		asr-a2a-default-vesteurope-container		25.09.2023 15:50:55		00:00:00	
Create a site		Successful		Server		asr-a2a-default-vesteurope		25.09.2023 15:49:21		00:01:23	

Azure Portal

- Böylece yedekleme işleminin başarılı olup olmadığını yada yedeklere dönmek istediğimizde bir sorun olup olmayacağını test etmiş olduk.

Azure DRC Failover Testi

Azure Portal

The screenshot displays the Azure Portal interface for a Site Recovery vault named 'vm-SFTP-eu'. The top navigation bar includes the Microsoft Azure logo, an 'Upgrade' button, a search bar, and user information for 'sumak_1997@hotmail.c...'. The left sidebar shows the 'Overview' tab selected, with sub-tabs for General, Properties, Compute, Network, and Disks. The main content area is divided into several sections:

- Essentials:** A row of action buttons including Failover, Test Failover, Cleanup test failover, Commit, Resynchronize, Change recovery point, Re-protect, Disable Replication, Error Details, and Refresh.
- Health and status:** A section with a 'Replication Health' indicator showing 'Healthy' and 'Protected' status, and an 'RPO' of '1 min [As on 25.09.2023 17:28:19]'.
- Failover readiness:** A section with indicators for 'Last successful Test Failover' (Never performed successfully), 'Configuration issues' (No issues), 'Agent version' (9.55.6808.1), and 'Agent status' (Healthy).
- Latest recovery points:** A box with a link to view the latest recovery points.
- Errors(0):** A section indicating 'No errors' with a link to 'Open in new page'.
- Events - Last 72 hours(0):** A section indicating 'No events' with a link to 'Open in new page'.
- Infrastructure view:** A diagram showing the vault's configuration across 'westeurope' and 'northeurope' regions, with a green line connecting the two regions and an 'Azure Site Recovery' icon.

Azure Portal

Microsoft Azure

Upgrade

Search resources, services, and docs (G+/)

sumak_1997@hotmail.c...
DEFAULT DIRECTORY (SUMAK199...

[Home](#) > [vm-SFTP-eu](#) >

Test failover

vm-SFTP-eu

✓ Validation success

Test failover direction

Source ⓘ

West Europe

Destination ⓘ

North Europe

Test failover settings

Recovery point * ⓘ

Latest processed (lowest RTO) (25.09.2023 17:36:21) (1 out of 1 disks) ▼

Azure virtual network * ⓘ

vm-SFTP-euVNET-asr (mapped) ▼

⚠ It is recommended that the networks selected for test failover and failover operations are different.

[Learn more about DR Drills](#) ⓘ

Test failover

Cancel

Azure Portal

[Home](#) >



Test failover

Site Recovery Job

...



Export job



Environment Details



Feedback



Test failover for the virtual machine has completed. To delete the virtual machine created during test failover use 'Cleanup test failover' option on the virtual machine.

Properties

Vault

[site-recovery-vault-northeurope](#)

Protected item

vm-SFTP-eu

Job id

8af0877d-87ca-4ff4-8724-3a11dc25c00d ActivityId: 44116425-0ff0-47f0-83a0-a3076a2a25ba



Job

Name	Status	Start time	Duration
Prerequisites check for test failover	✔ Successful	25.09.2023 17:40:37	00:00:01
Create test virtual machine	✔ Successful	25.09.2023 17:40:39	00:01:34
Preparing the virtual machine	✔ Successful	25.09.2023 17:42:13	00:01:36
Start the virtual machine	✔ Successful	25.09.2023 17:43:50	00:00:01