





Running 🔷





General

Name: Windows Server DC Operating System: Windows 10 (64-bit)

System

Base Memory: 4096 MB

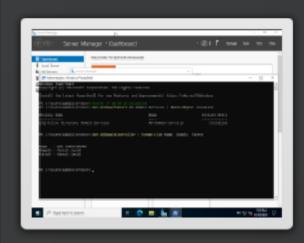
Processors:

Boot Order: Optical, Hard Disk

Acceleration: Nested Paging, Hyper-V

Paravirtualization

Preview



Display

Video Memory: 128 MB
Graphics Controller: VBoxSVGA
Remote Desktop Server: Disabled
Recording: Disabled

Storage

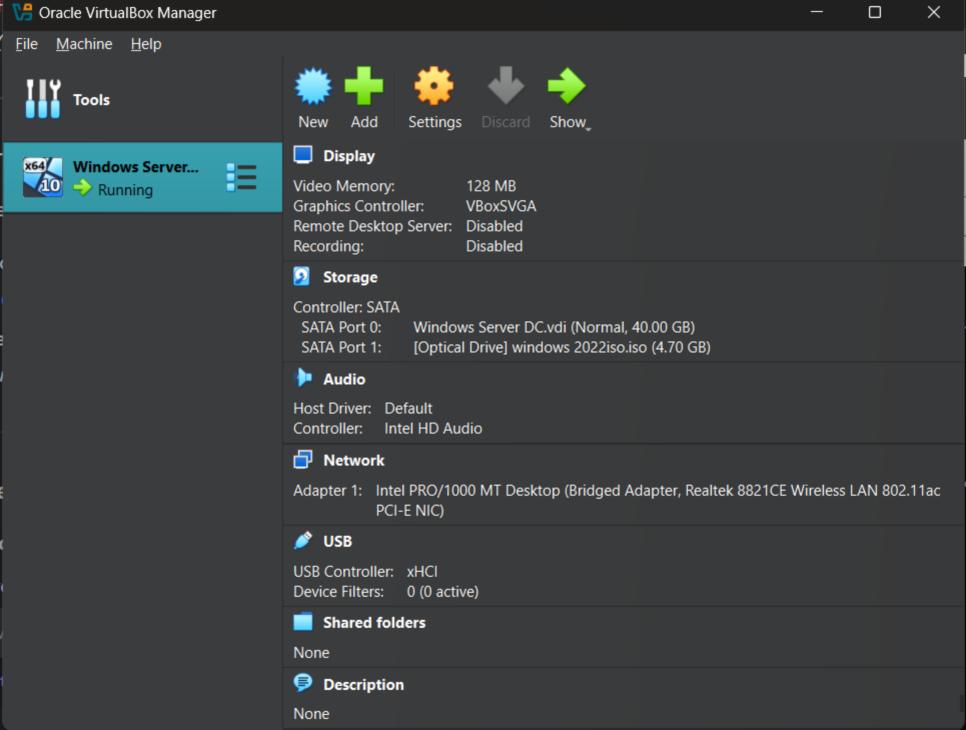
Controller: SATA

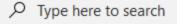
SATA Port 0: Windows Server DC.vdi (Normal, 40.00 GB)
SATA Port 1: [Optical Drive] windows 2022iso.iso (4.70 GB)

Audio

Host Driver: Default

Controller: Intel HD Audio















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Administrator: Windows PowerShell
Windows PowerShell
Copyright (C) Microsoft Corporation. All rights reserved.
                                                                                                                         Insta
ll the latest PowerShell for new features and improvements! https://aka.ms/PSWindows
                                                                                                               PS C:\Users\Adm
inistrator> #India/Pune/Marketing
                                                                                                          PS C:\Users\Administ
rator> New-ADUser -Name "Ravi" -GivenName "Ravi" -Surname "Sharma" -SamAccountName "ravi" -Path "OU=MARKETING, OU=PUNE, OU=IN
DIA, DC=forest, DC=local" -AccountPassword (ConvertTo-SecureString "P@ssw0rd10$" -AsPlainText -Force) -Enabled $true
PS C:\Users\Administrator> New-ADUser -Name "Hari" -GivenName "Hari" -Surname "Chandra" -SamAccountName "hari" -Path "OU=HR,
OU=CHENNAI, OU=INDIA, DC=forest, DC=local" -AccountPassword (ConvertTo-SecureString "P@ssw0rd10$" -AsPlainText -Force) -Enabl
ed $true
PS C:\Users\Administrator> #India/Chennai/HR(implemented above)
PS C:\Users\Administrator>
PS C:\Users\Administrator> #France/Paris/Design
PS C:\Users\Administrator> New-ADUser -Name "Adrien" -GivenName "Adrien" -Surname "Agreste" -SamAccountName "adrien" -Path "O
U=DESIGN, OU=PARIS, OU=FRANCE, DC=forest, DC=local" -AccountPassword (ConvertTo-SecureString "P@ssw0rd10$" -AsPlainText -Forc
e) -Enabled $true
PS C:\Users\Administrator> #South Korea/Seoul/Marketing
PS C:\Users\Administrator> New-ADUser -Name "Kim Yoo Jung" -GivenName "Yoo Jung" -Surname "Kim" -SamAccountName "yoojung" -Pa
th "OU=MARKETING, OU=SEOUL, OU=SOUTH KOREA, DC=forest, DC=local" -AccountPassword (ConvertTo-SecureString "P@ssw0rd10$" -Aspl
ainText -Force) -Enabled $true
PS C:\Users\Administrator> Get-ADUser -Filter * | Format-Table Name, SamAccountName, DistinguishedName
              SamAccountName DistinguishedName
Name
Administrator Administrator CN=Administrator,CN=Users,DC=forest,DC=local
                            CN=Guest,CN=Users,DC=forest,DC=local
Guest
             Guest
                            CN=krbtgt,CN=Users,DC=forest,DC=local
krbtgt
              krbtgt
                             CN=Ravi,OU=MARKETING,OU=PUNE,OU=INDIA,DC=forest,DC=local
Ravi
              ravi
                             CN=Hari,OU=HR,OU=CHENNAI,OU=INDIA,DC=forest,DC=local
Hari
              hari
Adrien
              adrien
                            CN=Adrien,OU=DESIGN,OU=PARIS,OU=FRANCE,DC=forest,DC=local
                             CN=Kim Yoo Jung,OU=MARKETING,OU=SEOUL,OU=SOUTH KOREA,DC=forest,DC=local
Kim Yoo Jung yoojung
PS C:\Users\Administrator> _
       Type here to search
```

```
PS C:\Users\Administrator> New-ADOrganizationalUnit -Name "GROUPS" -Path "DC=forest, DC=local"
PS C:\Users\Administrator> Get-ADOrganizationalUnit -Filter 'Name -eq "GROUPS"'
Citv
Country
DistinguishedName
                         : OU=GROUPS,DC=forest,DC=local
LinkedGroupPolicyObjects : {}
ManagedBy
Name
                         : GROUPS
ObjectClass
                         : organizationalUnit
                         : cdafc17a-28c5-4705-8266-bbc95779a6b7
ObjectGUID
PostalCode
State
StreetAddress
PS C:\Users\Administrator> #creating "GROUPS" OU helps to keep things organized
```

```
PS C:\Users\Administrator> #Role-Based Security Group
PS C:\Users\Administrator> New-ADGroup -Name "Finance Team" -GroupScope Global -Path "OU=GROUPS, DC=forest, DC=local" -Descri
ption "Accounting access"
PS C:\Users\Administrator> New-ADGroup -Name "IT Admins" -GroupScope Global -Path "OU=GROUPS, DC=forest, DC=local" -Descripti
on "Admin rights"
PS C:\Users\Administrator> #Departmental Security groups
PS C:\Users\Administrator> New-ADGroup -Name "Design Team" -GroupScope Global -Path "OU=GROUPS, DC=forest, DC=local"
PS C:\Users\Administrator> New-ADGroup -Name "Engineering" -GroupScope Global -Path "OU=GROUPS, DC=forest, DC=local"
PS C:\Users\Administrator> #Resource Access based Security Group
PS C:\Users\Administrator> New-ADGroup -Name "Printer Accounting" -GroupScope DomainLocal -Path "OU=GROUPS, DC=forest, DC=loc
PS C:\Users\Administrator> New-ADGroup -Name "SharePoint Read" -GroupScope DomainLocal -Path "OU=GROUPS, DC=forest, DC=local"
```

```
PS C:\Users\Administrator> Get-ADGroup -Filter * -SearchBase "OU=GROUPS, DC=forest, DC=local" | Where-Object{ ($ .Name -like
"*Team*") -or ($ .Name -like "* *")} | Format-Table Name, GroupScope
Name
                    GroupScope
Finance Team
                        Global
IT Admins
                        Global
Design Team
                        Global
Printer Accounting DomainLocal
SharePoint Read
                  DomainLocal
```

```
Administrator: Windows PowerShell
Windows PowerShell
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Install the latest PowerShell for new features and improvements! https://aka.ms/PSWindows
PS C:\Users\Administrator> #Security
PS C:\Users\Administrator> New-ADGroup -Name "MFA required" -GroupScope Universal -Path "OU=GROUPS, DC=forest, DC=local"
-Description "MFA-enabled users"
PS C:\Users\Administrator> New-ADGroup -Name "No PW Expiry" -GroupScope Global -Path "OU=GROUPS, DC=forest, DC=local"
PS C:\Users\Administrator> #Geographic
PS C:\Users\Administrator> New-ADGroup -Name "WFH Employees" -GroupScope Global -Path "OU=GROUPS, DC=forest, DC=local"
PS C:\Users\Administrator> New-ADGroup -Name "Hybrid_Workers" -GroupScope Universal -Path "OU=GROUPS, DC=forest, DC=loca
PS C:\Users\Administrator> Get-ADGroup -Filter * -SearchBase "OU=GROUPS, DC=forest, DC=local" | Where-Object{ ($ .Name
like "*Team*") -or ($ .Name -like "* *")} | Format-Table Name, GroupScope
Name
                   GroupScope
Finance Team
                       Global
IT Admins
                       Global
Design Team
                       Global
Printer Accounting DomainLocal
SharePoint Read
                  DomainLocal
MFA required
                    Universal
No PW Expiry
                       Global
WFH Employees
                       Global
Hybrid Workers
                    Universal
PS C:\Users\Administrator>
```

```
PS C:\Users\Administrator> #Project
PS C:\Users\Administrator> New-ADGroup -Name "Project Ashoka" -GroupScope Global -Path "OU=GROUPS, DC=forest, DC=local"
PS C:\Users\Administrator> #device
PS C:\Users\Administrator> New-ADGroup -Name "Laptop Users" -GroupScope Global -Path "OU=GROUPS, DC=forest, DC=local"
PS C:\Users\Administrator> #Cloud
PS C:\Users\Administrator> New-ADGroup -Name "Azure" -GroupScope Universal -Path "OU=GROUPS, DC=forest, DC=local"
PS C:\Users\Administrator> Get-ADGroup -Filter * -SearchBase "OU=GROUPS, DC=forest, DC=local" | Where-Object{ ($ .Name
match "Project|Laptop|Azure")} | Format-Table Name, GroupScope
Name
              GroupScope
Project Ashoka
                  Global
Laptop Users
                  Global
Azure
               Universal
```

	GroupMember -Identity "Fir n team GroupMember -Identity "Des nins GroupMember -Identity "IT_	
PS C:\Users\Administrator> Get-ADG	GroupMember -Identity "Fir	nance_Team" Select-Object Name
Name Hari		
PS C:\Users\Administrator> Get-AD0	GroupMember -Identity "Des	sign Team" Select-Object Name
Name		
Adrien		
PS C:\Users\Administrator> Get -AD0	GroupMember -Identity "IT	Admins" Select-Object Name
Name		
 Ravi Kim Yoo Jung		

```
PS C:\Users\Administrator> New-GPO -Name "Enforce Strong Passwords" | Set-GPRegistryValue -Key "HKLM\SOFTWARE\Microsoft\
Windows\CurrentVersion\Policies\Network" -ValueName "MinPasswordLength" -Type DWord -Value 12
DisplayName
                : Enforce Strong Passwords
DomainName
                : forest.local
                : FOREST\Domain Admins
Owner
Ιd
                 : acd558c6-a879-4957-be81-98763339ed76
GpoStatus
                 : AllSettingsEnabled
Description
CreationTime
                 : 6/18/2025 5:50:47 PM
ModificationTime : 6/18/2025 5:50:48 PM
                : AD Version: 0, SysVol Version: 0
UserVersion
ComputerVersion : AD Version: 1, SysVol Version: 1
WmiFilter
```

```
PS C:\Users\Administrator> Set-GPRegistryValue -Name "Enforce Strong Passwords" -Key "HKLM\SOFTWARE\Microsoft\Windows\Cu
rrentVersion\Policies\System" -ValueName "PasswordComplexity" -Type DWord -Value 1
DisplayName
                : Enforce Strong Passwords
                : forest.local
DomainName
Owner
                : FOREST\Domain Admins
Ιd
                : acd558c6-a879-4957-be81-98763339ed76
GpoStatus
                : AllSettingsEnabled
Description
CreationTime
                : 6/18/2025 5:50:47 PM
ModificationTime : 6/18/2025 5:55:46 PM
                : AD Version: 0, SysVol Version: 0
UserVersion
ComputerVersion : AD Version: 2, SysVol Version: 2
WmiFilter
```