

# ?????

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# ?????hyper-v?????VHDX

hyper-v " - - - "

hyper-v " compact "

hyper-v " " "

diskmgmt.msc " " "

1.

" - VHD" " " NTFS

VHD hyper-v

2. diskgen Ghost11

partition2partition

linux

3. NTFS Windows Server PowerShell Optimize-VHD cmdlet a.

" - VHD" "read-only" b. PowerShell

Optimize-VHD -Path C:\YourVHDX.vhdx -Mode Full OK

Optimize-VHD https://docs.microsoft.com/zh-tw ... e-vhd?view=win10-ps

4. Linux DELETE 0

systemrescue cd cd zerofree zerofree /dev/sda1

systemrescuecd

https://www.system-rescue.org/ Optimize-VHD -Path C:\YourVHDX.vhdx -Mode Prezeroed

VHDX NTFS

3

# hyper-v?????winrm service

winrm service: windows

winrm service,

/  
windows server

/

winrm service  
winrm enumerate winrm/config/listener

winrm service  
winrm quickconfig

```
Administrator: C:\Windows\system32\cmd.exe
Microsoft Windows [Version 6.1.7601]
Copyright (c) 2009 Microsoft Corporation. All rights reserved.

C:\Users\Administrator>winrm enumerate winrm/config/listener

C:\Users\Administrator>winrm quickconfig
WinRM already is set up to receive requests on this machine.
WinRM is not set up to allow remote access to this machine for management.
The following changes must be made:

Create a WinRM listener on HTTP://* to accept WS-Man requests to any IP on this machine.
Enable the WinRM firewall exception.
Configure LocalAccountTokenFilterPolicy to grant administrative rights remotely to local users.

Make these changes [y/n]? y

WinRM has been updated for remote management.

Created a WinRM listener on HTTP://* to accept WS-Man requests to any IP on this machine.
WinRM firewall exception enabled.
Configured LocalAccountTokenFilterPolicy to grant administrative rights remotely to local users.
```

winrm service listener:  
winrm e winrm/config/listener

```

Administrator: C:\Windows\system32\cmd.exe
Microsoft Windows [Version 6.1.7601]
Copyright (c) 2009 Microsoft Corporation. All rights reserved.

C:\Users\Administrator>winrm e winrm/config/listener
Listener
  Address = *
  Transport = HTTP
  Port = 5985
  Hostname
  Enabled = true
  URLPrefix = wsman
  CertificateThumbprint
  ListeningOn = 10.30.154.204, 127.0.0.1, ::1, fe80::5efe:10.30.154.204%15, fe
80::8c9:7b3:4319:9d1%16

C:\Users\Administrator>_

```

□ winrm service □□ auth:  
 winrm set winrm/config/service/auth @{Basic="true"}

```

Administrator: C:\Windows\system32\cmd.exe
Microsoft Windows [Version 6.1.7601]
Copyright (c) 2009 Microsoft Corporation. All rights reserved.

C:\Users\Administrator>winrm set winrm/config/service/auth @{Basic="true"}
Auth
  Basic = true
  Kerberos = true
  Negotiate = true
  Certificate = false
  CredSSP = false
  CbtHardeningLevel = Relaxed

C:\Users\Administrator>

```

□ winrm service □□□□□□□□□□  
 winrm set winrm/config/service @{AllowUnencrypted="true"}

```

Administrator: C:\Windows\system32\cmd.exe
Microsoft Windows [Version 6.1.7601]
Copyright (c) 2009 Microsoft Corporation. All rights reserved.

C:\Users\Administrator>winrm set winrm/config/service @{AllowUnencrypted="true"}
Service
  RootSDDL = O:NSG:BAD:P<A;;GA;;;BA>S:P<AU;FA;GA;;;WD><AU;SA;GMGX;;;WD>
  MaxConcurrentOperations = 4294967295
  MaxConcurrentOperationsPerUser = 15
  EnumerationTimeoutms = 60000
  MaxConnections = 25
  MaxPacketRetrievalTimeSeconds = 120
  AllowUnencrypted = true
  Auth
    Basic = true
    Kerberos = true
    Negotiate = true
    Certificate = false
    CredSSP = false
    CbtHardeningLevel = Relaxed
  DefaultPorts
    HTTP = 5985
    HTTPS = 5986
  IPv4Filter = *
  IPv6Filter = *
  EnableCompatibilityHttpListener = false
  EnableCompatibilityHttpsListener = false
  CertificateThumbprint

C:\Users\Administrator>

```

winrm service