

SOP for preparation of Windows Sealed Images for Hyper-V (Hosted VPS)

Summary

This article provides information about preparation of sealed images for Windows Virtual Machines.

Applies To

Applies to MachPanel v6.5.25 and onward.

Procedure for creating Windows VM Sealed Images

STEP-1: Crate VM

Minimum Disk Space 10-12 GB:

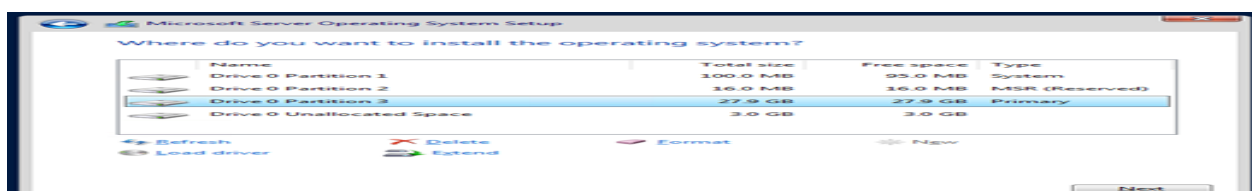
Create a VM to host the operating system of your choice with minimal disk space i.e. from 10 to 12 GB, as the purchased storage will then be added to respective VM later based on Service Plans.

Required Partition Settings:

Proper disk partitioning is critical for successful deployment. The recommended partition order is:

1. EFI System Partition (ESP) - SYSTEM
2. Recovery Partition (WinRE) - MSR (Reserved)
3. Windows (C:) - Primary

Hint : Create the **Windows (C:)** partition first (by selecting "New" in the Windows Setup dialog), Windows Setup **automatically** creates the required UEFI/GPT partitions in the correct order behind the scenes.



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This ensures that C: remains the last partition, allowing it to be extended via MachPanel automatically later when additional disk space is allocated.

For an existing VM with different disk partitioning order:

For an already prepared Sealed Image or VM, apply the steps highlighted in image below INSIDE THE VM to correct the partition layout. (If this needs to be used as sealed image for future deployments, sysprep the image again before using it for future deployments.)

Commands for reference:

```
PS C:\Users\Administrator> reagentc /disable
```

```
PS C:\Users\Administrator> diskpart
```

```
DISKPART> list disk
```

```
DISKPART> select disk 0
```

```
DISKPART> list partition
```

```
DISKPART> select partition 4
```

```
DISKPART> delete partition override
```

```
DISKPART> select partition 3
```

```
DISKPART> extend
```

```
Windows PowerShell
Copyright (C) Microsoft Corporation. All rights reserved.

Install the latest PowerShell for new features and improvements! https://aka.ms/PSWindows

PS C:\Users\Administrator> reagentc /disable
REAGENTC.EXE: Operation Successful.

PS C:\Users\Administrator> diskpart

Microsoft DiskPart version 10.0.26100.1150
Copyright (C) Microsoft Corporation.
On computer: 3-ZOHAIBSHAIKH-

DISKPART> list disk

Disk ###  Status         Size         Free         Dyn  Gpt
-----  -
Disk 0    Online         50 GB        20 GB        *

DISKPART> select disk 0
Disk 0 is now the selected disk.

DISKPART> list partition

Partition ###  Type              Size         Offset
-----  -
Partition 1    System            100 MB       1024 KB
Partition 2    Reserved          16 MB        102 MB
Partition 3    Primary           29 GB        117 MB
Partition 4    Recovery          674 MB       29 GB

DISKPART> select partition 4
Partition 4 is now the selected partition.

DISKPART> delete partition override
DiskPart successfully deleted the selected partition.

DISKPART> select partition 3
Partition 3 is now the selected partition.

DISKPART> extend
DiskPart successfully extended the volume.

DISKPART> |
```

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Other Settings:

1. Adjust the Windows Firewall as per your requirements.
2. Install antivirus & monitoring tools, if any.
3. Allow Remote Desktop Connection.
4. Set local Administrator Password to Never Expire.

STEP-2 Create Scheduled Task

In order to set Machine Name, Password and IP Address of VM, a "Scheduled Task" in sealed image must be created. Please review details below to create a scheduled task to allow MachPanel to "Set Password" and process other OS initialization steps in **Gen1** & **Gen2** VM: [Create Scheduled Task fo Sealed Image](#)

Note: There is a difference between creation of scheduled task for **Gen1** and **Gen2** type virtual Machines. Please check details in above KB and create task accordingly.

STEP-3: Seal The Images / Prepare Windows VM Sealed Images

1. Download the sample / generic **sysprep.xml** file provided in download section in this article (adjust it if required per your requirements).
2. Copy **sysprep.xml** to **C:\Windows\System32\sysprep** inside the VM that needs to become your sealed image / OS template.
3. Open Command Prompt as Administrator
4. Navigate to SysPrep Directory: **CD C:\Windows\System32\sysprep>**
5. Run command: **sysprep.exe /generalize /oobe /shutdown /unattend:sysprep.xml**
6. On completion, you will find the VM in shutdown state.
7. Your sealed image is ready. You can copy this <name>.VHD / <name>.VHDX file to MachPanel's Sealed Image repository directory and specify the path to the prepared file in MachPanel configuration.

Download Ready to use Windows Sealed Images:

You may download per-configured Gen1 and Gen2 Windows sealed images from the links

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below. These images are provided solely for your convenience and may be used at your own discretion and responsibility. MachSol does not warrant or assume any liability for their usage in your environment.

- **Windows Server 2019**
 - o <https://www.machsol.com/Updates/SealedImages/WindowsServer2019Gen1SealedImage.zip>
 - o <https://www.machsol.com/Updates/SealedImages/WindowsServer2019Gen2SealedImage-R2.zip>
- **Windows Server 2022**
 - o <https://www.machsol.com/Updates/SealedImages/WindowsServer2022Gen1SealedImage.zip>
 - o <https://www.machsol.com/Updates/SealedImages/WindowsServer2022Gen2SealedImage-R2.zip>
- **Windows Server 2022 with SQL Server:**
 - o <https://www.machsol.com/Updates/SealedImages/WinServer2022WithSQL2019.zip>
- **Windows Server 2025**
 - o <https://www.machsol.com/Updates/SealedImages/WindowsServer2025Gen1SealedImage.zip>
 - o <https://www.machsol.com/Updates/SealedImages/WindowsServer2025Gen2SealedImage-R2.zip>
- **Windows 11 Pro**
 - o <https://www.machsol.com/Updates/SealedImages/Windows11Pro.zip>
- **Windows 11**
 - o <https://www.machsol.com/Updates/SealedImages/Win11-SealedImage.zip>

MachPanel Knowledgebase

<https://kb.machsol.com/Downloads/50314/SOP-for-preparation-of-Windows-Seale...>