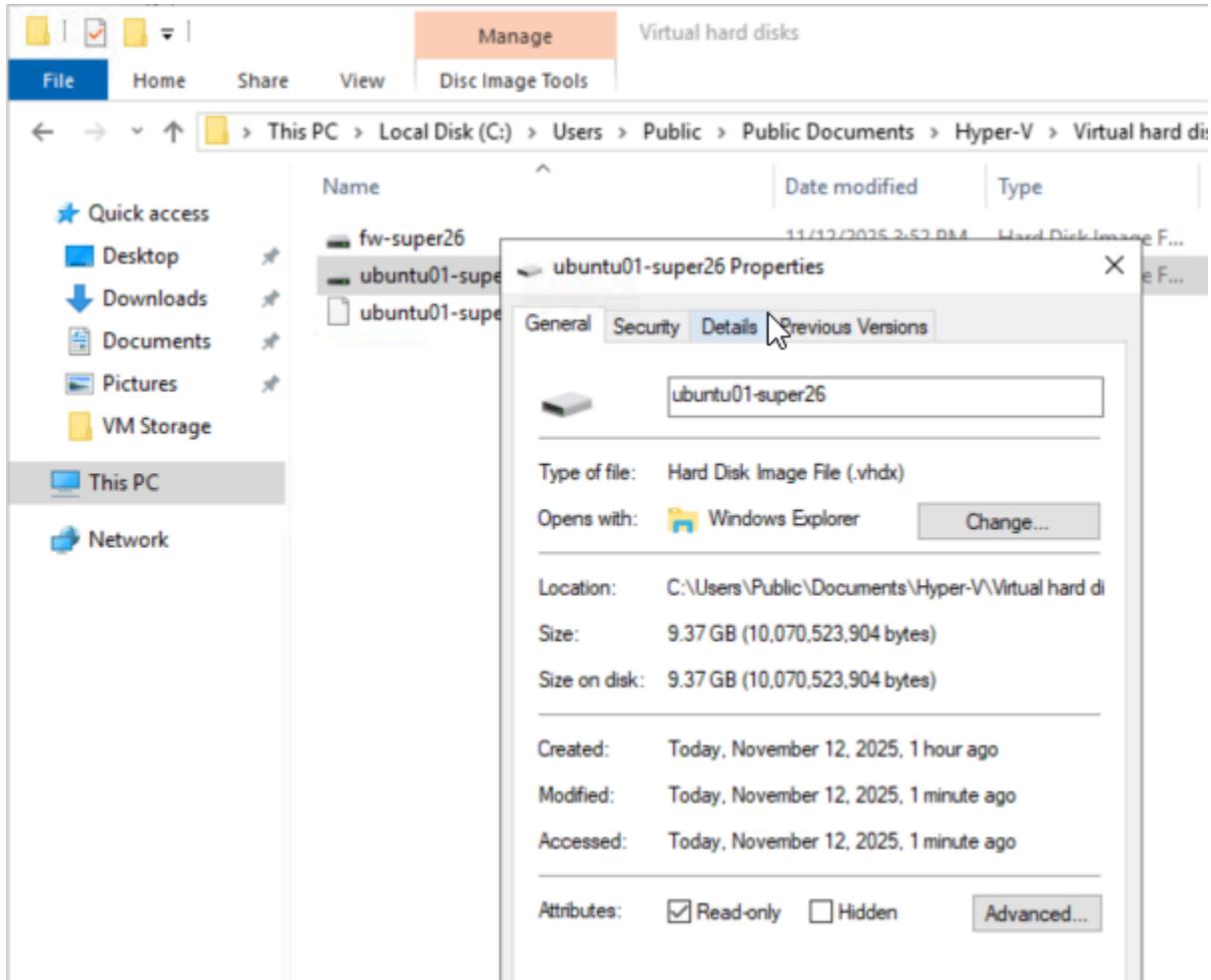


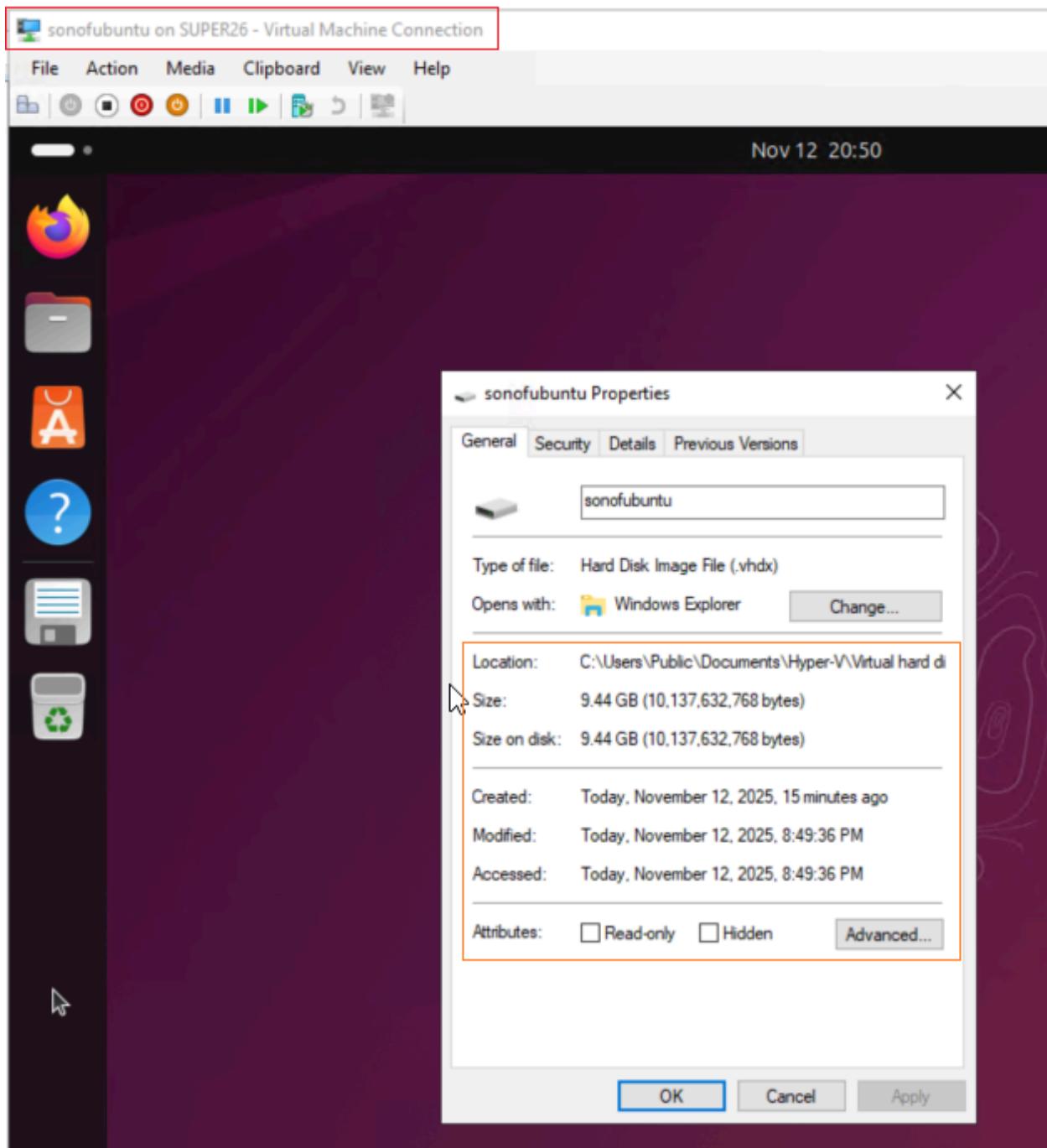
Devin Ziegler
Professor Gillen
SYS-350-01
November 12, 2025

Milestone 7.1 - HyperV - Linked Clones and Automation

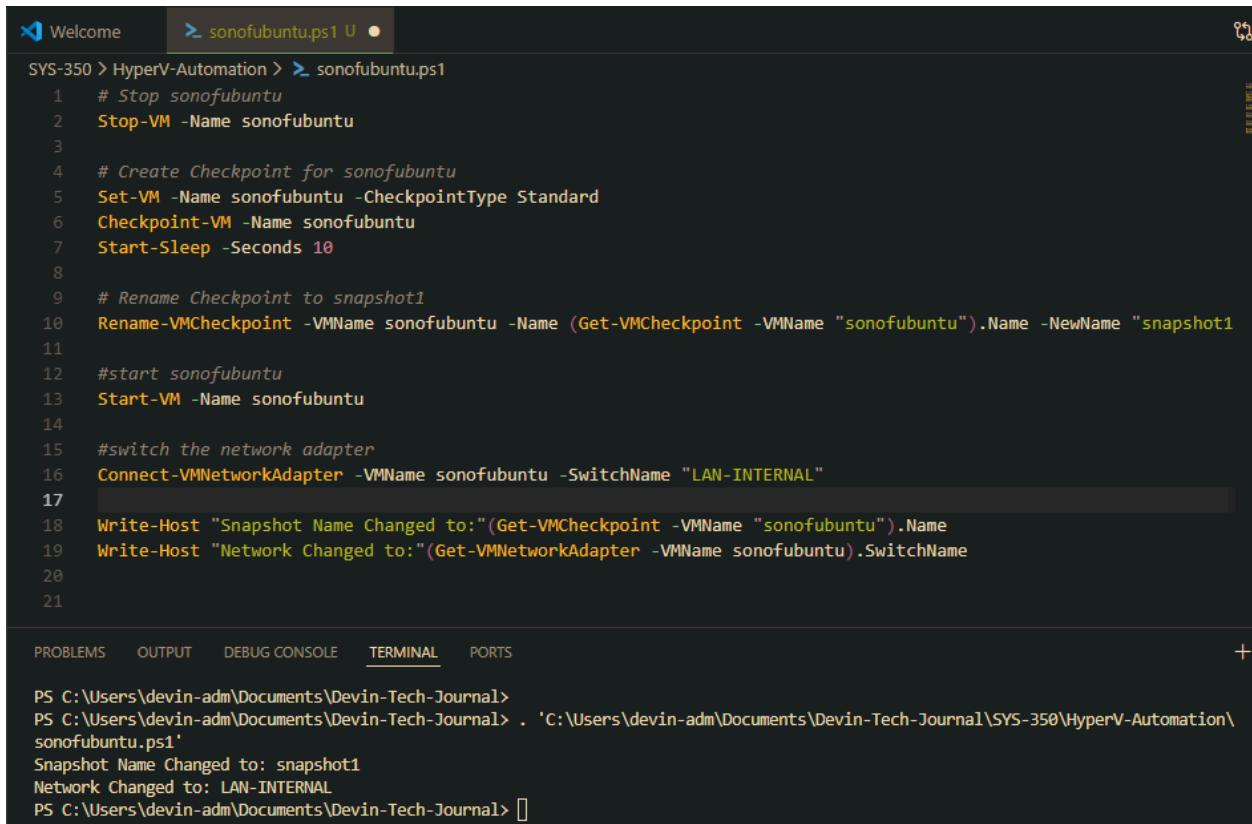
Deliverable 1.



> Snip showing ubuntu VHD set to **Read-Only**

Deliverable 2.

> Snip showing **sonofubuntu** running with created VHD.

Deliverable 3-6:

The screenshot shows a terminal window with the title bar "Welcome" and "sonofubuntu.ps1 U". The main area displays a PowerShell script named "sonofubuntu.ps1" with line numbers 1 through 21. The script performs the following tasks:

- Stops the VM named "sonofubuntu".
- Creates a checkpoint for the VM.
- Changes the name of the checkpoint to "snapshot1".
- Starts the VM again.
- Switches the network adapter to "LAN-INTERNAL".
- Outputs the new snapshot name and network adapter name.

Below the script, the terminal window shows the command PS C:\Users\devin-adm\Documents\Devin-Tech-Journal> followed by the execution of the script . 'C:\Users\devin-adm\Documents\Devin-Tech-Journal\SYS-350\HyperV-Automation\sonofubuntu.ps1'. The output of the script is displayed, indicating the successful creation of a snapshot named "snapshot1" and the change of the network adapter to "LAN-INTERNAL".

> Snip showing stopping sonofubuntu, taking a snapshot and naming it snapshot1, starting the VM, and switching the network adapter to another network.

Deliverable 7.



SYS-350 > HyperV-Automation > cloner.ps1 > ...

```

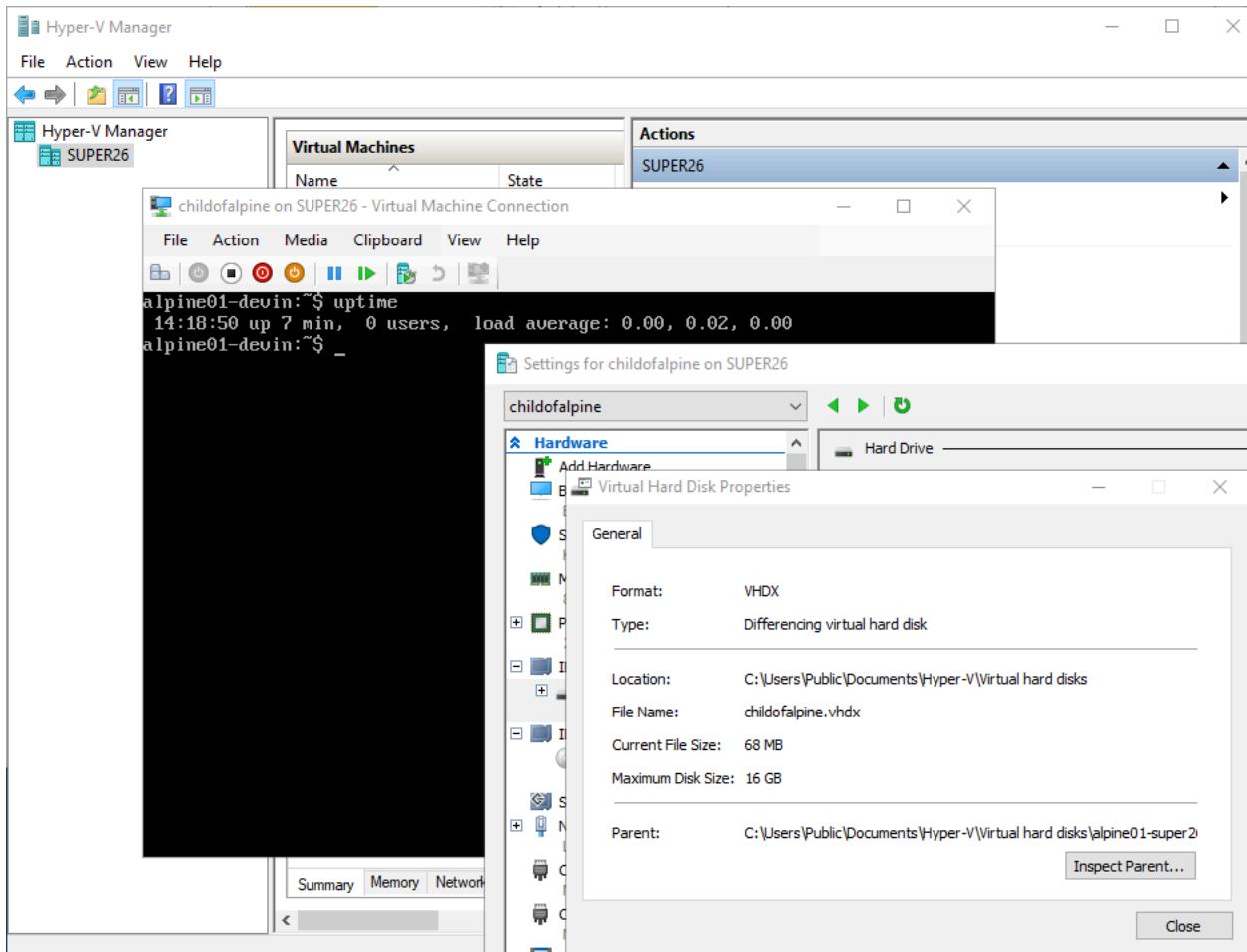
1 # Path to VM VHD
2 $parentvhd = Get-Item "C:\Users\Public\Documents\Hyper-V\Virtual hard disks\alpine01-super26.vhdx"
3
4
5 # Change the VHD to Read Only
6 $parentvhd.Attributes = $parentvhd.Attributes -bor [System.IO.FileAttributes]::ReadOnly
7
8 # Create Child VHD
9 New-VHD -Path "C:\Users\Public\Documents\Hyper-V\Virtual hard disks\childofalpine.vhdx" -ParentPath $parentvhd -Differencing
10 $childvhd = Get-Item "C:\Users\Public\Documents\Hyper-V\Virtual hard disks\childofalpine.vhdx"
11
12 # Create a new VM with the childofalpine VHD
13 New-VM -Name childofalpine -MemoryStartupBytes 8GB -BootDevice VHD -VHDPath $childvhd -Path .\VMDATA -Generation 1 -Switch LAN-INTERNAL
14
15 # Set Processor Count & power on
16 Set-VMProcessor -VMName childofalpine -Count 2
17 Start-VM -Name childofalpine
18 Start-Sleep -Seconds 5
19
20 # Display new VM details
21 Get-VM -Name childofalpine

```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

ComputerName	:	SUPER26
Path	:	C:\Users\Public\Documents\Hyper-V\Virtual hard disks\childofalpine.vhdx
VhdFormat	:	VHDX
Vhdtype	:	Differencing
FileSize	:	4194304
Size	:	17179869184
MinimumSize	:	17179869184
LogicalSectorSize	:	512
PhysicalSectorSize	:	4096
BlockSize	:	2097152
ParentPath	:	C:\Users\Public\Documents\Hyper-V\Virtual hard disks\alpine01-super26.vhdx
DiskIdentifier	:	18F9A697-C33E-4A58-8B54-5591496A00EF
FragmentationPercentage	:	
Alignment	:	1
Attached	:	False
DiskNumber	:	
IsPMMCompatible	:	False
AddressAbstractionType	:	None
Number	:	
Name	:	childofalpine
State	:	Off
CpuUsage	:	0
MemoryAssigned	:	0
MemoryDemand	:	0
MemoryStatus	:	
Uptime	:	00:00:00
Status	:	Operating normally
ReplicationState	:	Disabled
Generation	:	1
Name	:	childofalpine
State	:	Running
CpuUsage	:	10
MemoryAssigned	:	8589934592
MemoryDemand	:	0
MemoryStatus	:	
Uptime	:	00:00:05.0430000
Status	:	Operating normally
ReplicationState	:	Disabled
Generation	:	1

> Screenshot of cloning script running successfully

Deliverable 7.1

> Snip showing running os with virtual properties for childofalpine VHDX

Deliverable 8.

Github: <https://github.com/devinziegler/Devin-Tech-Journal/wiki/Milestone-7.1>