

# How to Build a Lab to Hack Safely



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Practice builds knowledge, knowledge  
builds confidence

— SuperDale



# SuperDale Rules



- I Promise NOT to “try out” tools on my production network
- I understand that neither the author nor Pluralsight is responsible for my actions
- Uncle Ben’s statement

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# Your Virtual Lab

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# Host Machine



Hyper-V

VMware

VirtualBox

# LIVE CLIP

# Host Machine



Windows 8.1 Enterprise / Server 2012R2

16GB RAM

50GB hard drive

1 NIC

# Virtual Machines



Windows 8.1



Windows 7



Server 2008/2012



BackTrack/Kali

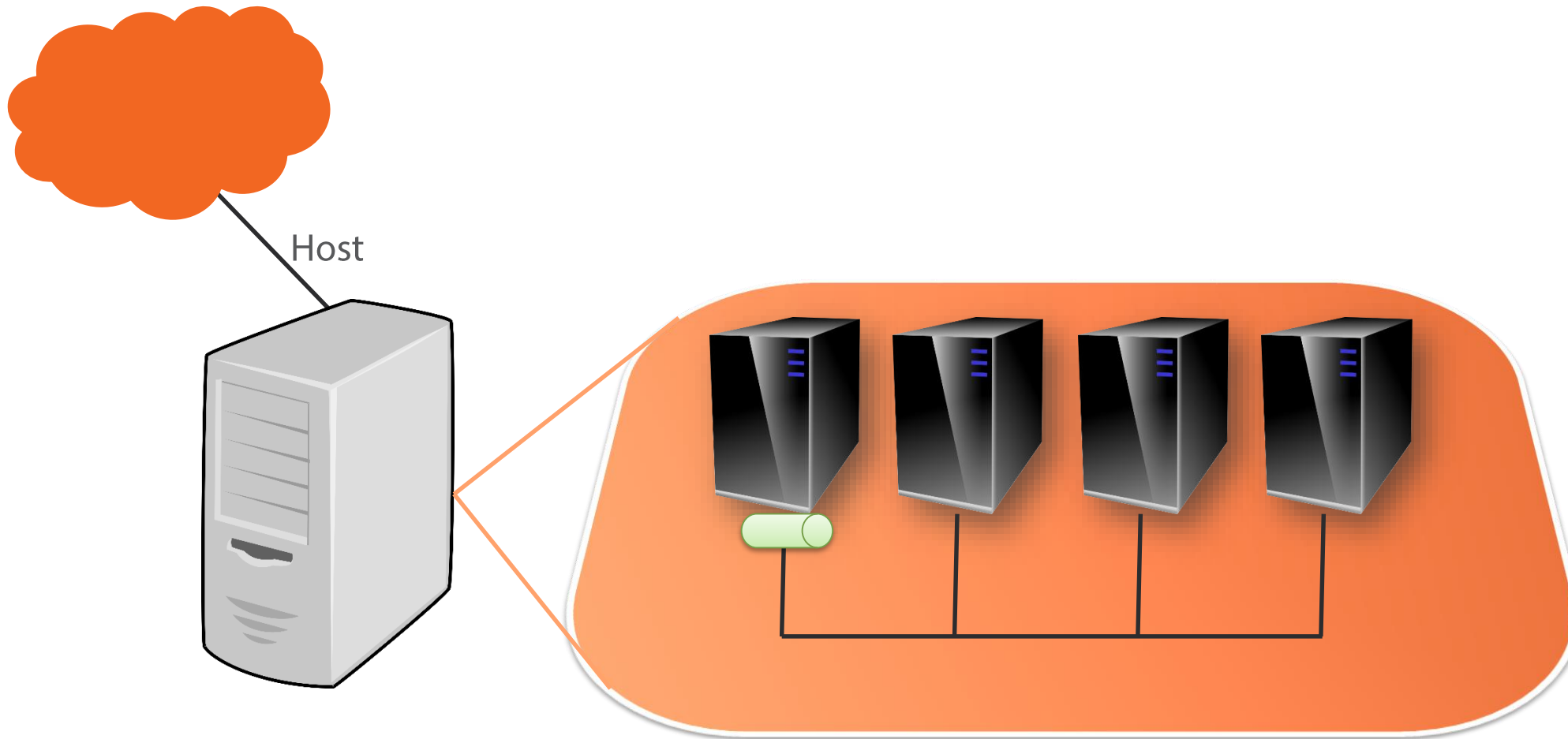


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# Configure Your Virtual Environment

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# Virtual Network



Private LAN

# Get Your Download On

1. Install from DVD/ISOs
  - a) TechNet/MSDN/Volume Licenses Downloads
  - b) Trials (Eval Times)
  - c) BackTrack/Kali - <http://www.kali.org>
    - a) Full vs Mini vs VMware
2. TechNet Evaluation Center
3. Microsoft VHD Program
4. Checkout the files for this course (Warning: It's a biggie!)

# LIVE CLIP

# Demo

- ❑ Getting source OS's
- ❑ Configure virtual network
- ❑ Install clients
  - ❑ **Install DNS**
- ❑ IP Addresses
  - ❑ **Additional network settings**



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# The Host Machine

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# LIVE CLIP

<http://tinyurl.com/ethicalW7P1>

<http://tinyurl.com/ethicalW7P2>

<http://tinyurl.com/ethicalW7P3>

<http://tinyurl.com/ethicalW7P4>

<http://tinyurl.com/ethicalW7P5>

<http://tinyurl.com/ethicalW7P6>

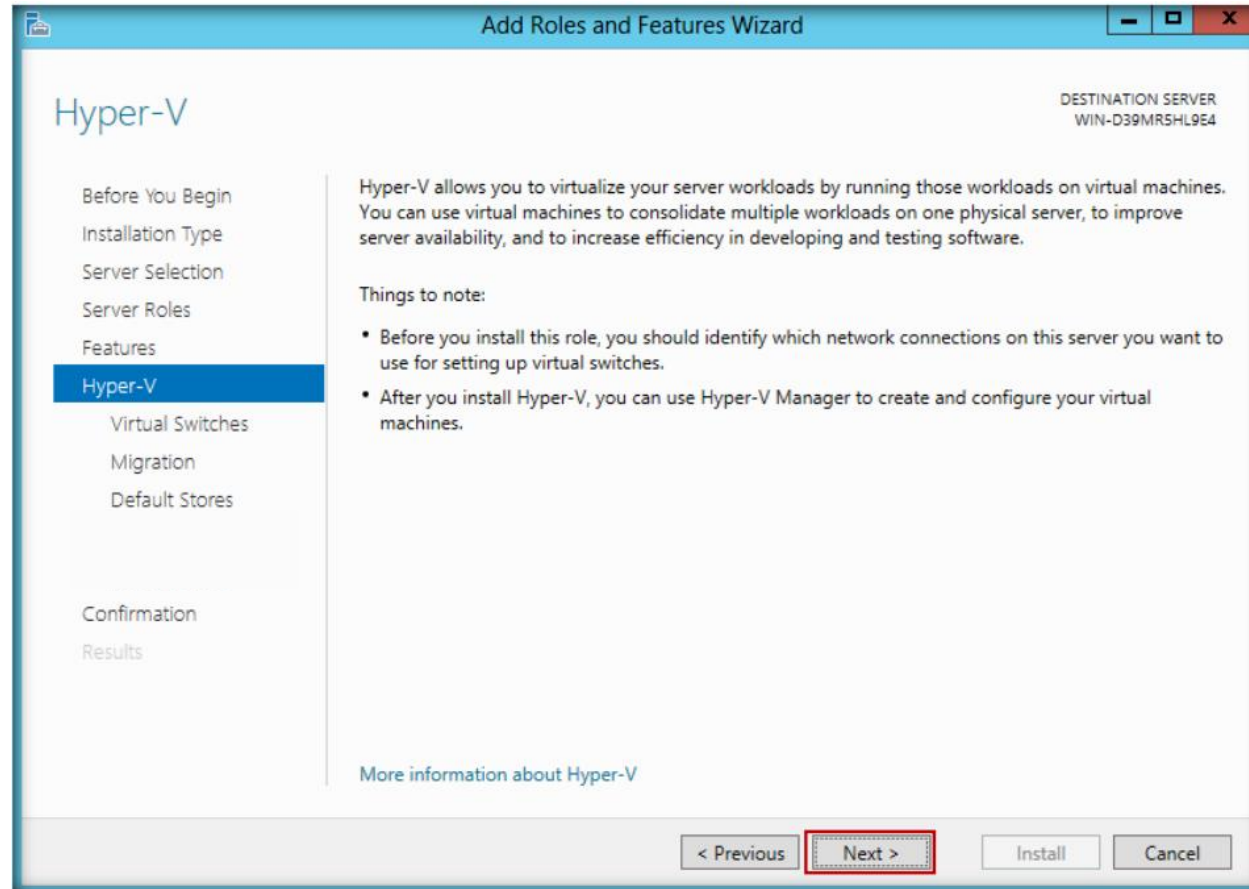
<http://tinyurl.com/ethicalW7P7>

## Windows 7 SP1 with IE9

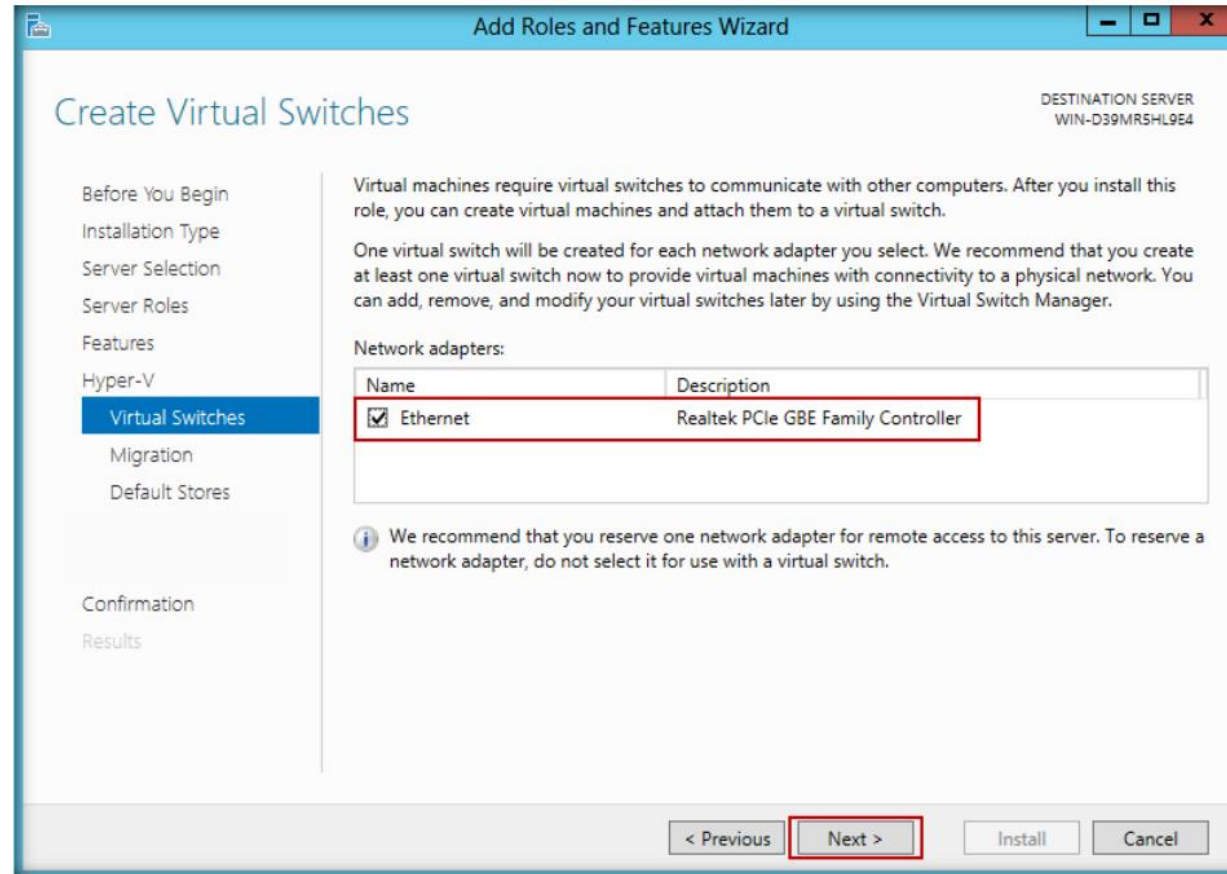
7 downloads – Put them in one directory and expand.



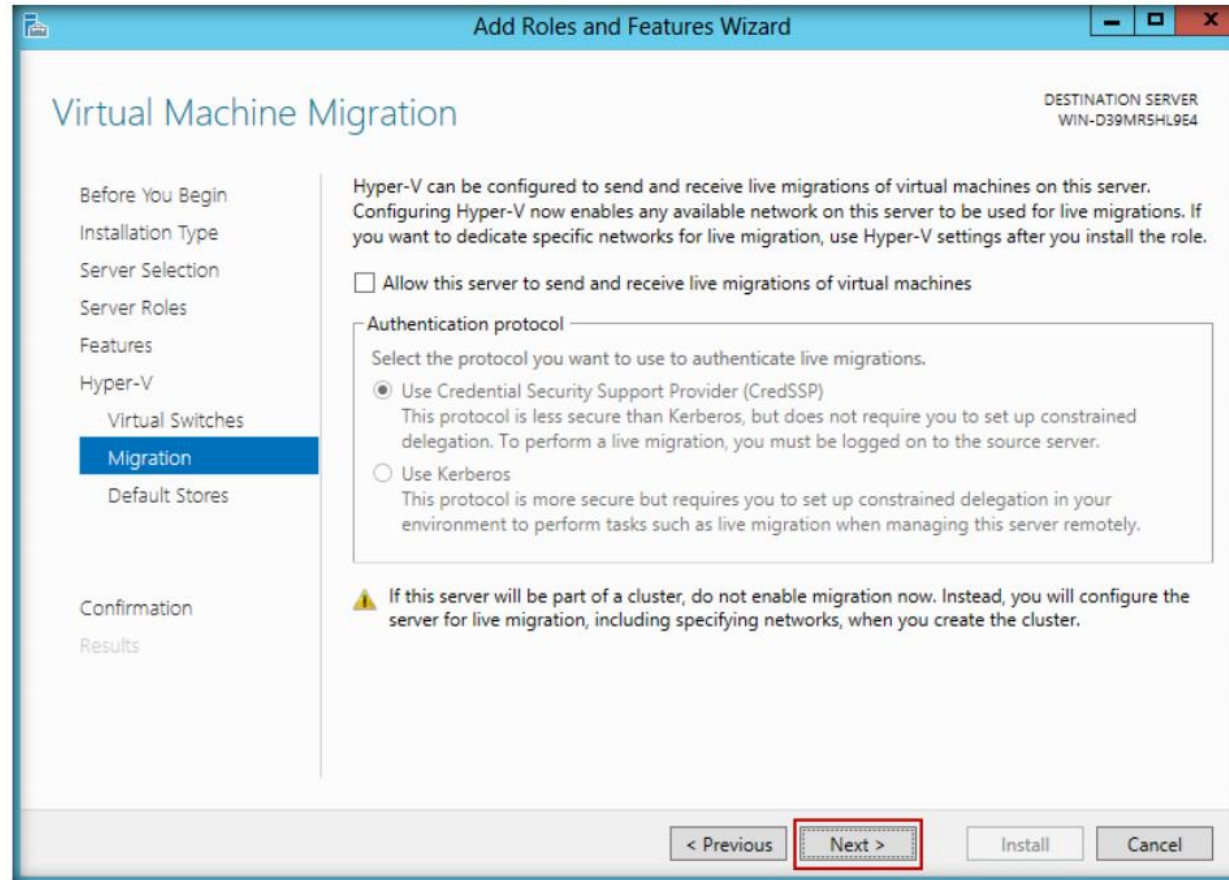
# Installing Hyper-V on the Host Machine



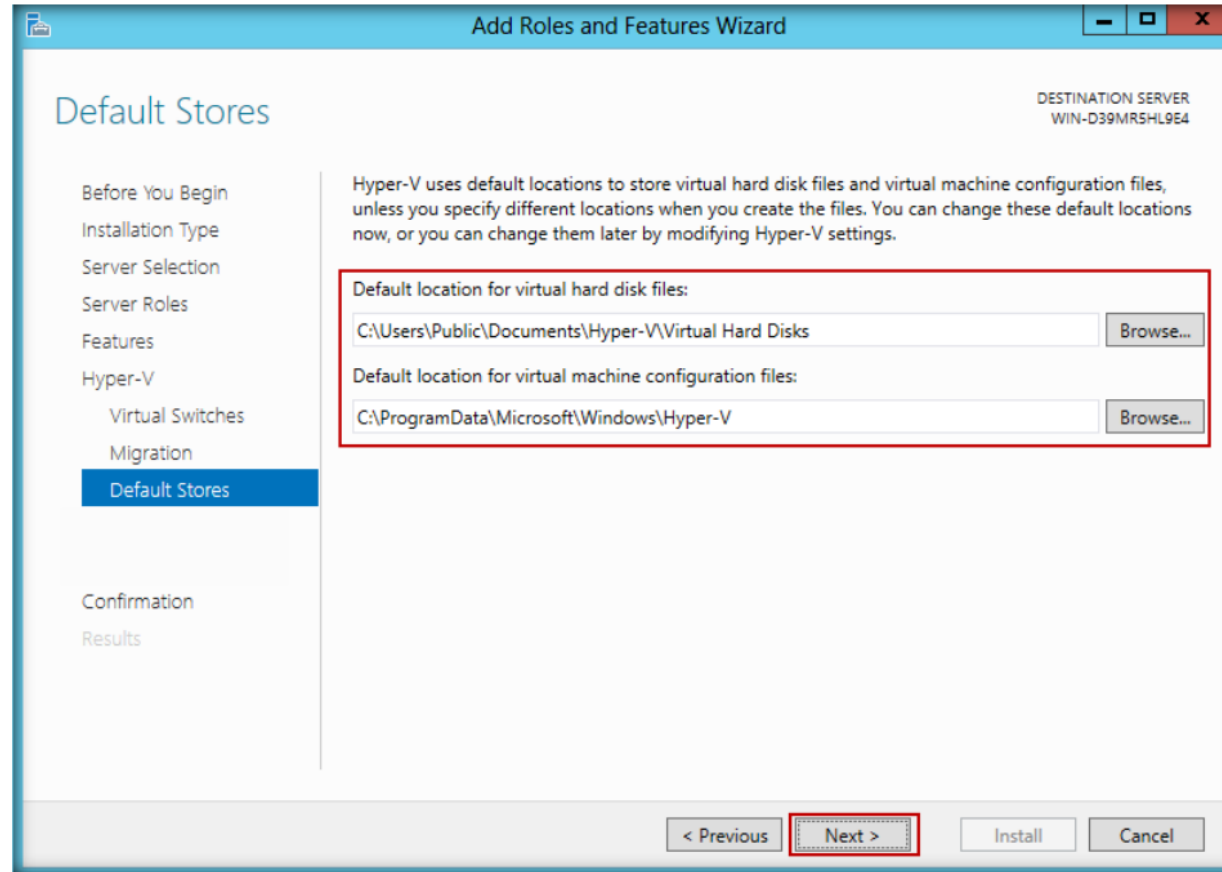
# Installing Hyper-V on the Host Machine



# Installing Hyper-V on the Host Machine



# Installing Hyper-V on the Host Machine



# Other Windows OS That Include Hyper-V

Windows 8 Pro

Windows 8.1 Pro

Windows 10 Pro

Windows 8  
Enterprise

Windows 8.1  
Enterprise

Windows 10  
Enterprise

# Summary



- The DO's and DON'T's
- Clients
- Virtual network
- Set up the Host Machine