# Hyper-V Network Virtualization Cookbook

*Ryan Boud*

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**Hyper-V Network Virtualization Cookbook** Ryan Boud
**Over 20 recipes to ease the creation of new virtual machines in the networking layer using Hyper-V Network Virtualization**

## About This Book

- Create, configure, and administer System Center 2012 R2 virtual networks with Hyper-V
- Design practical solutions to optimize your network solutions
- Learn how to control who can access a VM on a specific port to enhance the security of your virtual machine

## Who This Book Is For

If you are a virtualization architect, engineer, or administrator who wants to leverage Hyper-V to create virtual networks (virtual data centers), this is the book for you.

Prior knowledge of Hyper-V or a similar solution and a good understanding of the end goals of creating a virtual network is required.

## What You Will Learn

- Install a highly available Virtual Machine Manager (VMM)
- Configure VMM for Hyper-V Network Virtualization
- Create a Service Template for reusable HNV gateways
- Create an HNV gateway and the different options for gateways, including Network Address Translation and Direct Routing
- Integrate IP Address Management (IPAM) with VMM for HNV
- Implement network security in Hyper-V Network Virtualization

## In Detail

Hyper-V Network Virtualization provides the concept of a Virtual Network that is independent of the underlying physical network. Using software-defined networking, you can manage the network address space, isolation, and routing without having to make changes to the physical underlying architecture.

You will start your journey by understanding the fundamentals of Hyper-V Network Virtualization and how to configure System Center 2012 R2 Virtual Machine Manager to support it. You will learn about the Windows Server Gateway role for Hyper-V Virtual Networks and the different implementation options.

Finally, you will see how the Hyper-V Extensible Switch can help protect Virtual Machines by using Hyper-V Extensible Port ACLs.

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**Robert Young:**

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