

1. Record Nr.	UNINA9910797527203321
Autore	Neumann Jason C.
Titolo	The book of GNS3 : build virtual network labs using Cisco, Juniper, and more / / by Jason C. Neumann
Pubbl/distr/stampa	San Francisco, California : , : No Starch Press, , 2015 ©2015
ISBN	1-4571-8991-7 1-59327-695-8 1-59327-554-4
Edizione	[1st edition]
Descrizione fisica	1 online resource (272 p.)
Disciplina	004.6/8
Soggetti	Computer networks - Computer simulation
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Includes index.
Nota di contenuto	Brief Contents ; Contents in Detail ; Foreword; Acknowledgments; Introduction; Who This Book Is For ; What's in This Book ; My Approach ; Book Overview ; Chapter 1: Introducing GNS3; Why Use GNS3? ; Emulated Hardware ; Simulated Operating Systems ; Scalability with the GNS3 Server ; Virtual Connectivity; Open Source Integration ; The Dynamips Hypervisor ; QEMU and VirtualBox ; A Few Limitations ; Some Assembly Required ; Limited Emulation ; Hamstrung Network Performance ; Final Thoughts ; Chapter 2: Installing a Basic GNS3 System; General Requirements ; Installing on Microsoft Windows Installing on OS X Installing on Ubuntu Linux ; Installing GNS3 from Packages ; Installing GNS3 from Source Code ; GNS3 Appliances ; A Few Pros and Cons ; GNS3 WorkBench ; Installing GNS3 WorkBench ; Final Thoughts ; Chapter 3: Configuration; Acquiring an IOS Image ; Setting Up Your First IOS Router ; Configuring Dynamips ; Adding IOS Images to GNS3 ; Setting a Manual Idle-PC Value ; Final Thoughts ; Chapter 4: Creating and Managing Projects; Project Management Overview ; Terminology ; Screen Layout ; Using the GNS3 Toolbar ; First Toolbar Group ; Second Toolbar Group ; Third Toolbar Group Fourth Toolbar Group Using the Devices Toolbar ; Creating Your First Project ; Working with Routers ; Creating Links Between Your Routers ; Configuring Virtual Hardware ; Starting, Stopping, and Pausing Routers

; Logging On to Routers ; Ethernet Switch Nodes ; Changing Symbols and Organizing Your Devices ; Final Thoughts ; Chapter 5: Integrating Hosts and Using Wireshark; Virtual PC Simulator ; Installing VPCS ; VPCS Commands ; VPCS IP Addressing ; VirtualBox ; Installing on Windows ; Installing on OS X ; Installing on Linux ; Importing Appliances ; VirtualBox Preferences
VirtualBox Virtual Machine Settings Using VirtualBox Hosts in a Project ; Linking VirtualBox Host Nodes to Other Devices ; Simple VirtualBox Project Using a Linux Virtual Machine ; Wireshark ; Installing on Windows ; Installing on OS X ; Installing on Linux ; Capturing Packets in GNS3 ; Final Thoughts ; Chapter 6: Juniper Olive and vSRX Firefly; Installing QEMU on Windows and OS X ; Installing QEMU on Linux ; Introducing Juniper ; Installing Juniper ; Process Overview ; Acquiring FreeBSD ; Acquiring Juniper Olive Software ; Creating a Juniper Olive CD Image File ; Creating an ISO in Windows
Creating an ISO in OS X Creating an ISO in Linux ; Installing and Configuring FreeBSD Using QEMU ; Preparing Your Build Directory ; Installing a Junos-Friendly FreeBSD System ; Installing the Juniper Olive Package in FreeBSD ; Getting Your Olive Up and Running ; Backing Up Juniper Olive ; Configuring a Juniper Router in GNS3 ; Adding the Juniper Virtual Machine to GNS3 ; Adding Ethernet Interfaces ; Testing a Juniper Router ; Running Juniper vSRX Firefly ; Creating a Firefly Virtual Machine with VirtualBox ; Giving Your Virtual Machine More Processors ; Adding vSRX Firefly to GNS3
Creating a Project with a Zone-Based Firewall

Sommario/riassunto

The Book of GNS3 shows network engineers and systems administrators how to simulate network connections and troubleshoot potential network problems, all using only a single computer.
