
Deployment Fundamentals Vol 6

Deploying Windows 10 Using Microsoft Deployment Toolkit

Effectively orchestrate Windows container workloads using Kubernetes
Kafka: The Definitive Guide
Windows Server 2016 Administration Fundamentals
Windows 7 Resource Kit
Docker on Amazon Web Services
Create and deploy Streamlit web applications from scratch in Python
Deploy, set up, and deliver network services with Windows Server while preparing for the MTA 98-365 exam and pass it with ease
Build cloud strategies that align technology and economics while effectively managing risk
Microsoft Azure Essentials Azure Machine Learning
Mastering the Microsoft Deployment Toolkit
Learn PowerShell Toolmaking in a Month of Lunches
Designing Big Data Platforms
Deployment Fundamentals, Vol. 6
Learning Helm
A Guide for Busy Developers
OpenShift for Developers
Deploying Windows 10 Using Microsoft Deployment Toolkit
Ruby on Rails Tutorial
Deploying Windows 8 and Office 2013 Using Mdt 2012 Update 1
How to Use, Deploy, and Maintain Big Data Systems
Active Directory
OpenStack in Action
Deployment Fundamentals, Vol. 4
Kubernetes: Up and Running
Mastering VMware vSphere 5.5
Learn Web Development with Rails
Jenkins: The Definitive Guide
Real-Time Data and Stream Processing at Scale
OpenShift for Developers
Intrusion Prevention Fundamentals
Design and Deploy Production-Ready Software
Microsoft Exchange Server 2013
An end-to-end reference guide to design, deploy, manage, and secure 802.11 wireless networks
Managing Kubernetes
Essential Tools and Best Practices for Deploying Code to Production

Building Secure Systems in Untrusted Networks
A Guide for Impatient Beginners
Architecting Cloud Computing Solutions
Operating Kubernetes Clusters in the Real World
Controller-Based Wireless LAN Fundamentals

*Deployment
Fundamentals
Vol 6
Deploying
Windows 10
Using
Microsoft
Deployment
Toolkit*

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HOGAN YANG

Effectively orchestrate Windows container workloads using Kubernetes

Microsoft
Press

Summary OpenStack in Action offers the real world use cases and step-by-step instructions you can take to develop your own cloud platform from inception to deployment. This book guides you through the design of both the physical hardware cluster and the infrastructure services you'll need to create a custom cloud platform. Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications. About the Technology OpenStack is an open source framework that lets you create a private or public cloud platform on your own physical servers. You build custom infrastructure, platform,

and software services without the expense and vendor lock-in associated with proprietary cloud platforms like Amazon Web Services and Microsoft Azure. With an OpenStack private cloud, you can get increased security, more control, improved reliability, and lower costs. About the Book OpenStack in Action offers real-world use cases and step-by-step instructions on how to develop your own cloud platform. This book guides you through the design of both the physical hardware cluster and the infrastructure services you'll need. You'll learn how to select and set up virtual and physical servers, how to implement software-defined networking, and technical details of designing, deploying, and operating an OpenStack cloud in your enterprise. You'll also discover how to best tailor your OpenStack deployment for your environment. Finally, you'll learn how your cloud can offer user-facing software and infrastructure services.

What's Inside Develop and deploy an enterprise private cloud Private cloud technologies from an IT perspective Organizational impact of self-service cloud computing About the Reader No prior knowledge of OpenStack or cloud development is assumed. About the Author Cody Bumgardner is the Chief Technology Architect at a large university where he is responsible for the architecture, deployment, and long-term strategy of OpenStack private clouds and other cloud computing initiatives. Table of Contents PART 1 GETTING STARTED Introducing OpenStack Taking an OpenStack test-drive Learning basic OpenStack operations Understanding private cloud building blocks PART 2 WALKING THROUGH A MANUAL DEPLOYMENT Walking through a Controller deployment Walking through a Networking deployment Walking through a Block Storage deployment Walking through a Compute

deployment PART 3
BUILDING A PRODUCTION
ENVIRONMENT

Architecting your
OpenStack Deploying
Ceph Automated HA
OpenStack deployment
with Fuel Cloud
orchestration using
OpenStack

Kafka: The Definitive

Guide Deployment
Fundamentals, Vol.

6Deploying Windows 10
Using Microsoft

Deployment ToolkitIf your
job is deploying Windows
10, this book is for you. In
this book, you will find
practical guidance based
on our many years of real-
world experience
deploying Windows
around the world.

Deployment
Fundamentals, Volume 6,
provides you with detailed
step-by-step instructions,
as well as decision-
making guidance and
explanations that provide
answers on the Whys and
Hows around Windows 10
OS deployment using
Microsoft Deployment
Toolkit (MDT) 2013

Update 2. The book also
include many real-word
notes and troubleshooting
tips and tricks. To get you
going as quickly possible,
the book sample scripts
contains a fully
automated build of the
entire environment, the
hydration kit. That

includes a fully configured
Active Directory
environment, including
DNS, DHCP, WSUS, PXE,
DFS-R Replication, SQL
Express, and more. With
this book, you will learn
how to: Install and
configure MDT 2013
Update 2 for production
deployments - Build the
supporting infrastructure -
Use the script repository
included with this book in
your own environment -
Create production-ready
reference images for
Windows 10 - Build a real-
world deployment solution
for Windows 10 - Add and
deploy applications -
Perform real-world driver
management - Apply
advanced configurations
for CustomSettings.ini and
deployment automation -
Extend MDT using
application wrappers,
userexit scripts, and
PowerShell - Prestage
deployment settings using
the MDT databases -
Perform advanced
configuration using web
services - Deploy Office
2016, including the Click-
to-Run Office 365
versionDeployment
Fundamentals, Vol.
4Deploying Windows 8
and Office 2013 Using Mdt
2012 Update 1If your job
is deploying Windows 8
(or Windows 7), this book
is for you. In this book,
you will find practical

guidance based on our
many years of real-world
experience deploying
Windows around the
world. Deployment
Fundamentals, Volume 4
provides you with detailed
step-by-step instructions
for all aspects of
deploying Windows using
Microsoft Deployment
Toolkit (MDT) 2012
Update 1. Detailed
explanations and real-
world notes help you
make the right decisions
and understand the hows
and whys of Windows OS
deployment. Samples and
scripts give you the tools
you need for the best
results.Deployment
Fundamentals, Vol.
3Deploying Windows 7
Using System Center
Configuration Manager
2007Active Directory
Take a deep dive into the
world of Windows desktop
deployment using the
Microsoft Deployment
Toolkit About This Book
Learn Microsoft
Deployment Toolkit best
practices and how to
adopt them into your
deployment project
Troubleshoot task
sequence errors and
quickly resolve
deployment blockers An
easy-to-follow, in-depth
guide to image creation,
customization, and
deployment of Windows
Who This Book Is For This

book is ideal for those deploying or planning to deploy Windows, in need of a top-to-bottom guide on project deployment. It is also an invaluable resource for consultants who need a top-to-bottom guide (or just a refresher) on project deployment. What You Will Learn Build a production-ready MDT environment Administer the environment for multiple users Customize your reference image with an MDT Task Sequence Create standalone media for offline deployments Customize the default user profile according to the version of Windows Get to grips with some troubleshooting steps and processes to reduce the time for recovery of a failed image Customize and create Windows images for deployment Discover useful tips and tricks to help save time in your deployment projects In Detail The Microsoft Deployment Toolkit (MDT) provides a comprehensive collection of tools, processes, and guidance for automating desktop and server deployments. It considerably reduces deployment time and standardizes desktop and server images. Moreover, MDT offers improved security and ongoing configuration

management. Microsoft Deployment Toolkit is the official supported method of creating and customizing Windows images for deployment. Starting from scratch, this book walks you through the MDT setup, task sequence creation, and image deployment steps in detail. Breaking down the various MDT concepts, this book will give you a thorough understanding of the deployment process. Beginning with imaging concepts and theory, you will go on to build a Microsoft Deployment Toolkit environment. You will understand the intricacies of customizing the default user profile in different versions of Windows. Driver handling can be a challenge for larger organizations; we'll cover various driver concepts including mandatory driver profiles.]Other important topics like the User State Migration Tool (USMT), configuration of XML files, and how to troubleshoot the USMT are also discussed in the book. We will cover the verifier and Windows Performance Toolkit for image validation scenarios. Furthermore, you will learn about MDT web frontend implementation as well as

how to utilize the database capabilities of MDT for deeper deployment options. We'll wrap it all up with some links to resources for more information, blogs to watch, and useful Twitter handles. Style and approach This is a comprehensive guide written using a step-by-step approach. It begins with the basics and gradually moves on to the advanced topics MDT. [Windows Server 2016 Administration Fundamentals](#) Pearson Education India Get up to date quickly with clear, expert coverage of SCCM 2016 Mastering System Center Configuration Manager provides comprehensive coverage of Microsoft's powerful network software deployment tool, with a practical hands-on approach. Written by Santos Martinez, Peter Daalmans, and Brett Bennett, this guide walks you through SCCM 2016 with in-depth explanations anchored in real-world applications to get you up to speed quickly. Whether you're planning a new installation or migrating from a previous version of Configuration Manager, this book provides clear instruction and expert insight to get the job done

right. Fully aligned with the latest release, the discussion covers the newest tools and features with examples that illustrate utility in a variety of contexts. System Center Configuration Manager (formerly SMS) is one of Microsoft's flagship products; the 2016 release has been updated with better Windows 10 and Windows Server 2016 compatibility, improved tools for managing non-Microsoft mobile devices in the cloud, and more. This book provides start-to-finish coverage and expert guidance on everything you need to get your system up to date. Deploy software and operating systems Automate processes and customize configurations Monitor performance and troubleshoot issues Manage security in the cloud and on Virtual Machines SCCM 2016 improves your ability to handle the bring-your-own-device influx in managing mobile, streamlining the latest hiccup right into the everyday workflow. Mastering System Center Configuration Manager provides the practical coverage you need to get up and running seamlessly.

Windows 7 Resource

Kit Simon and Schuster This is the ultimate source for the working IT Pro who wants to develop and customize deployment solutions based on MDT 2013 and/or ConfigMgr 2012 R2. This is a HOW TO GET IT DONE book, solely focused on customizing deployment solutions with roots in the real world. In addition to well-proven step-by-step guides, you also get access to sample scripts and source code, allowing you to quickly test the solutions in your own environment. As far as the title goes, we don't mean you should steal things, literally. In this book, stealing is a metaphor for not reinventing the wheel. We don't want you to waste time developing solutions that are already available for free. Discover how to Setup MDT 2013 Lite Touch for OSD - Setup ConfigMgr 2012 R2 for OSD - Work with drivers in MDT 2013 and ConfigMgr 2012 R2 - Customize MDT 2013 Lite Touch and ConfigMgr 2012 R2 OSD - Select the right development tools for OSD customizations - Use version control for your scripts and source code - Advanced customization of the MDT 2013 Lite Touch wizard -

Master the rules (CustomSettings.ini) - Create UserExit scripts - Configure user-driven installation (UDI) - Create and extend the MDT database - Use a custom frontend for the MDT database - Create and debug custom scripts and frontends - Create web services in both VB.NET and C# - Extend the MDT Monitoring feature - Setup and configure Orchestrator 2012 R2 - Integrate MDT 2013 and ConfigMgr 2012 R2 with Orchestrator 2012 R2 **Docker on Amazon Web Services** O'Reilly Media If your job is deploying Windows 10, this book is for you. In this book, you will find practical guidance based on our many years of real-world experience deploying Windows around the world. Deployment Fundamentals, Volume 6, provides you with detailed step-by-step instructions, as well as decision-making guidance and explanations that provide answers on the Whys and Hows around Windows 10 OS deployment using Microsoft Deployment Toolkit (MDT) 2013 Update 2. The book also include many real-word notes and troubleshooting tips and tricks. To get you going as quickly possible,

the book sample scripts contains a fully automated build of the entire environment, the hydration kit. That includes a fully configured Active Directory environment, including DNS, DHCP, WSUS, PXE, DFS-R Replication, SQL Express, and more. With this book, you will learn how to: Install and configure MDT 2013 Update 2 for production deployments - Build the supporting infrastructure - Use the script repository included with this book in your own environment - Create production-ready reference images for Windows 10 - Build a real-world deployment solution for Windows 10 - Add and deploy applications - Perform real-world driver management - Apply advanced configurations for CustomSettings.ini and deployment automation - Extend MDT using application wrappers, userexit scripts, and PowerShell - Prestage deployment settings using the MDT databases - Perform advanced configuration using web services - Deploy Office 2016, including the Click-to-Run Office 365 version *Create and deploy Streamlit web applications from scratch in Python* Manning Publications

Get up to speed with Helm, the preeminent package manager for the Kubernetes container orchestration system. This practical guide shows you how to efficiently create, install, and manage the applications running inside your containers. Helm maintainers Matt Butcher, Matt Farina, and Josh Dolitsky explain how this package manager fits into the Kubernetes ecosystem and provide an inside look at Helm's design and best practices. More than 70% of the organizations that work with Kubernetes use Helm today. While the Helm community provides thousands of packages, or charts, to help you get started, this book walks developers and DevOps engineers through the process of creating custom charts to package applications. If you have a working understanding of Kubernetes, you're ready to go. Explore primary features including frequently used Helm commands Learn how to build and deploy Helm charts from scratch Use Helm to manage complexity and achieve repeatable deployments Package an application and its dependencies for easy installation Manage the entire lifecycle of

applications on Kubernetes Explore ways to extend Helm to add features and functionality Learn features for testing, handling dependencies, and providing security *Deploy, set up, and deliver network services with Windows Server while preparing for the MTA 98-365 exam and pass it with ease* "O'Reilly Media, Inc." Manage and administer your environment with ease About This Book Get your hands on learning the fundamentals to managing and administering Windows Server 2016. A step-by-step guide that will help you develop necessary skills and knowledge to manage an enterprise environment. Learn to implement strong networking and security practices into your Windows Server environment. Who This Book Is For If you are a System administrator or an IT professional interested in configuring and deploying Windows Server 2016 then, this book is for you. This book will also help readers clear the MTA: Windows Server Administration Fundamentals: 98-365 exam. What You Will Learn Become familiar with Windows Server OS

concepts Learn how to install Windows Server 2016 Learn how to install device drivers and run services in Windows Server 2016 Learn how to add and install roles in Windows Server 2016 Learn how to apply GPO to your Windows Server 2016 environment Learn how to tune, maintain, update, and troubleshoot Windows Server 2016 Prepare for the MTA 98-365 exam In Detail Windows Server 2016 is the server operating system developed by Microsoft as part of the Windows NT family of operating systems, developed concurrently with Windows 10. This book is designed to get you started with Windows Server 2016. It will prepare you for your MTA 98-365 exam. With step-by-step instructions driven by targeted, easy-to-understand graphics, you will be able to understand the roles, features, functions, and quirks of Windows Server 2016. The book begins with the basics of Windows Server 2016, which includes the installation process and basic configuration. You will then move on to roles and features such as Active Directory, Hyper-V, Remote Access, Storage,

and Printer. With the help of real-world examples, you will get to grips with the fundamentals of Windows Server 2016, which will help you solve difficult tasks the easy way. Later, the book also shows you maintenance and troubleshooting tasks, where with the help of best practices you will be able to manage Windows Server 2016 with ease. Each chapter ends with a questionnaire to ensure you make the best use of the content provided. By the end of this book, you will have the knowledge required to administer and manage Windows Server environments. Style and approach With step-by-step instructions driven by targeted, easy-to-understand graphics, this book explains and shows you how to use the roles and features, functions, and quirks of the Windows Server 2016. The chapters are presented in a step by step format accompanied by graphics wherever applicable. [Build cloud strategies that align technology and economics while effectively managing risk](#) John Wiley & Sons Continuous delivery adds enormous value to the business and the entire software delivery

lifecycle, but adopting this practice means mastering new skills typically outside of a developer's comfort zone. In this practical book, Daniel Bryant and Abraham Marín-Pérez provide guidance to help experienced Java developers master skills such as architectural design, automated quality assurance, and application packaging and deployment on a variety of platforms. Not only will you learn how to create a comprehensive build pipeline for continually delivering effective software, but you'll also explore how Java application architecture and deployment platforms have affected the way we rapidly and safely deliver new software to production environments. Get advice for beginning or completing your migration to continuous delivery Design architecture to enable the continuous delivery of Java application artifacts including fat JARs, virtual machine images, and operating system container (Docker) images Use continuous integration tooling like Jenkins, PMD, and find-sec-bugs to automate code quality checks

Create a comprehensive build pipeline and design software to separate the deploy and release processes Explore why functional and system quality attribute testing is vital from development to delivery Learn how to effectively build and test applications locally and observe your system while it runs in production

Microsoft Azure Essentials Azure Machine Learning

"O'Reilly Media, Inc."

Deploy, configure, administer, and run Microsoft Azure Stack Hub Key Features Understand the topics required for the Microsoft Azure AZ-600 exam Configure and provide services from Microsoft Azure Stack Hub Implement data center integration with Microsoft Azure Stack Hub Book Description Azure Stack Hub is the on-premise offering from Microsoft, which provides Azure Cloud services within a customer's own data center. It provides consistent processes between on-site and the cloud, allowing developers to test locally and deploy to the cloud in exactly the same manner. Azure Stack Hub Demystified provides complete coverage of deploying, configuring,

administrating, and running Microsoft Azure Stack Hub efficiently. Firstly, you will learn how to deploy Azure Stack Hub within an organization. As you progress, you'll understand configuration and the different services provided by the platform. The book also focuses on the underlying architecture and connectivity options for the modern data center. Later, you will understand various approaches to DevOps and their implementation, and learn key topics for the AZ-600 exam. By the end of this Azure book, you will have a thorough understanding of Azure Stack Hub and the services that are provided by the platform, along with the confidence and information you need to be able to pass the AZ-600 exam. What you will learn Understand the architecture of Azure Stack Hub Get up to speed with the management and administration of Azure Stack Hub Explore how to administer virtual networking within your Azure Stack Become well versed in using the Azure Stack Hub support model and updating Azure Stack Hub Understand how licensing and billing is done with Azure Stack

Hub Discover the tools that can be used to implement security within Azure Stack Hub Focus on how DevOps practices can be incorporated with Azure Stack Hub Who this book is for If you are an Azure Administrator and Azure Stack Hub Operator who provides or is looking to provide cloud services to end users or customers within their own data center, then this book is for you. This book will also be beneficial to those who are preparing for Exam AZ-600: Configuring and Operating a Hybrid Cloud with Microsoft Azure Stack Hub.

Mastering the Microsoft Deployment Toolkit

"O'Reilly Media, Inc."

The perimeter defenses guarding your network perhaps are not as secure as you think. Hosts behind the firewall have no defenses of their own, so when a host in the "trusted" zone is breached, access to your data center is not far behind. That's an all-too-familiar scenario today. With this practical book, you'll learn the principles behind zero trust architecture, along with details necessary to implement it. The Zero Trust Model treats all hosts as if they're internet-facing, and

considers the entire network to be compromised and hostile. By taking this approach, you'll focus on building strong authentication, authorization, and encryption throughout, while providing compartmentalized access and better operational agility. Understand how perimeter-based defenses have evolved to become the broken model we use today Explore two case studies of zero trust in production networks on the client side (Google) and on the server side (PagerDuty) Get example configuration for open source tools that you can use to build a zero trust network Learn how to migrate from a perimeter-based network to a zero trust network in production

[Learn PowerShell Toolmaking in a Month of Lunches](#) "O'Reilly Media, Inc."

Accelerating Business and Mission Success with Cloud Computing. Key Features A step-by-step guide that will practically guide you through implementing Cloud computing services effectively and efficiently. Learn to choose the most ideal Cloud service model, and adopt appropriate

Cloud design considerations for your organization. Leverage Cloud computing methodologies to successfully develop a cost-effective Cloud environment successfully. Book Description Cloud adoption is a core component of digital transformation. Scaling the IT environment, making it resilient, and reducing costs are what organizations want. Architecting Cloud Computing Solutions presents and explains critical Cloud solution design considerations and technology decisions required to choose and deploy the right Cloud service and deployment models, based on your business and technology service requirements. This book starts with the fundamentals of cloud computing and its architectural concepts. It then walks you through Cloud service models (IaaS, PaaS, and SaaS), deployment models (public, private, community, and hybrid) and implementation options (Enterprise, MSP, and CSP) to explain and describe the key considerations and challenges organizations face during cloud migration. Later, this book

dives into how to leverage DevOps, Cloud-Native, and Serverless architectures in your Cloud environment and presents industry best practices for scaling your Cloud environment. Finally, this book addresses (in depth) managing essential cloud technology service components such as data storage, security controls, and disaster recovery. By the end of this book, you will have mastered all the design considerations and operational trades required to adopt Cloud services, no matter which cloud service provider you choose. What you will learn Manage changes in the digital transformation and cloud transition process Design and build architectures that support specific business cases Design, modify, and aggregate baseline cloud architectures Familiarize yourself with cloud application security and cloud computing security threats Design and architect small, medium, and large cloud computing solutions Who this book is for If you are an IT Administrator, Cloud Architect, or a Solution Architect keen to benefit from cloud adoption for your organization, then this book is for you. Small

business owners, managers, or consultants will also find this book useful. No prior knowledge of Cloud computing is needed.

[Designing Big Data Platforms](#) Packt Publishing Ltd

Streamline software development with Jenkins, the popular Java-based open source tool that has revolutionized the way teams think about Continuous Integration (CI). This complete guide shows you how to automate your build, integration, release, and deployment processes with Jenkins—and demonstrates how CI can save you time, money, and many headaches. Ideal for developers, software architects, and project managers, *Jenkins: The Definitive Guide* is both a CI tutorial and a comprehensive Jenkins reference. Through its wealth of best practices and real-world tips, you'll discover how easy it is to set up a CI service with Jenkins. Learn how to install, configure, and secure your Jenkins server. Organize and monitor general-purpose build jobs. Integrate automated tests to verify builds, and set up code quality reporting. Establish effective team notification strategies and

techniques. Configure build pipelines, parameterized jobs, matrix builds, and other advanced jobs. Manage a farm of Jenkins servers to run distributed builds. Implement automated deployment and continuous delivery.

Deployment Fundamentals, Vol. 6 Pragmatic Bookshelf

While Kubernetes has greatly simplified the task of deploying containerized applications, managing this orchestration framework on a daily basis can still be a complex undertaking. With this practical book, site reliability and DevOps engineers will learn how to build, operate, manage, and upgrade a Kubernetes cluster—whether it resides on cloud infrastructure or on-premises. Brendan Burns, cofounder of Kubernetes, and Craig Tracey, staff field engineer at Heptio, dissect how Kubernetes works internally and demonstrate ways to maintain, adjust, and improve the cluster to suit your particular use case. You'll learn how to make architectural choices for designing a cluster, managing access control, monitoring and alerting, and upgrading Kubernetes. Dive in and

discover how to take full advantage of this orchestration framework's capabilities. Learn how your cluster operates, how developers use it to deploy applications, and how Kubernetes can facilitate a developer's job. Adjust, secure, and tune your cluster by understanding Kubernetes APIs and configuration options. Detect cluster-level problems early and learn the steps necessary to respond and recover quickly. Determine how and when to add libraries, tools, and platforms that build on, extend, or otherwise improve a Kubernetes cluster.

Learning Helm Microsoft Press

In-depth and comprehensive, this official RESOURCE KIT delivers the information you need to administer Windows 7 in the enterprise. You get authoritative technical guidance from those who know the technology best—Microsoft Most Valuable Professionals (MVPs) and the Windows 7 Team—along with hundreds of scripts and other essential resources on CD. Get expert guidance on how to: Apply best practices for using Microsoft Deployment Toolkit. Plan user-state

migration; test application compatibility; manage update Manage Group Policy Objects using Windows PowerShell Administer Windows Firewall and Windows BitLocker Implement Ipsec, IPv6, wireless, and VPN connectivity Install and configure printers, devices, and services Manage disks, file systems, storage, and data security Administer search and indexing with Group Policy Diagnose and resolve startup, hardware, and networking issue CD FEATURES: Nearly 200 Windows PowerShell scripts created specifically for this book—customize to administer your environment Windows 7 Resource Kit PowerShell Pack—700 cmdlets and functions to extend Windows in-box functionality Links to author Web sites Sample chapters from Microsoft Press books Fully searchable eBook For customers who purchase an ebook version of this title, instructions for downloading the CD files can be found in the ebook.
[A Guide for Busy Developers](#) Packt Publishing Ltd
Ready to build cloud native applications? Get a

hands-on introduction to daily life as a developer crafting code on OpenShift, the open source container application platform from Red Hat. Creating and packaging your apps for deployment on modern distributed systems can be daunting. Too often, adding infrastructure value can complicate development. With this practical guide, you'll learn how to build, deploy, and manage a multitiered application on OpenShift. Authors Joshua Wood and Brian Tannous, principal developer advocates at Red Hat, demonstrate how OpenShift speeds application development. With the Kubernetes container orchestrator at its core, OpenShift simplifies and automates the way you build, ship, and run code. You'll learn how to use OpenShift and the Quarkus Java framework to develop and deploy apps using proven enterprise technologies and practices that you can apply to code in any language. Learn the development cycles for building and deploying on OpenShift, and the tools that drive them Use OpenShift to build, deploy, and manage the ongoing lifecycle of an n-tier application Create a

continuous integration and deployment pipeline to build and deploy application source code on OpenShift Automate scaling decisions with metrics and trigger lifecycle events with webhooks
[OpenShift for Developers](#) Pearson Education
Controller-Based Wireless LAN Fundamentals An end-to-end reference guide to design, deploy, manage, and secure 802.11 wireless networks As wired networks are increasingly replaced with 802.11n wireless connections, enterprise users are shifting to centralized, next-generation architectures built around Wireless LAN Controllers (WLC). These networks will increasingly run business-critical voice, data, and video applications that once required wired Ethernet. In Controller-Based Wireless LAN Fundamentals, three senior Cisco wireless experts bring together all the practical and conceptual knowledge professionals need to confidently design, configure, deploy, manage, and troubleshoot 802.11n networks with Cisco Unified Wireless Network (CUWN) technologies. The authors

first introduce the core principles, components, and advantages of next-generation wireless networks built with Cisco offerings. Drawing on their pioneering experience, the authors present tips, insights, and best practices for network design and implementation as well as detailed configuration examples. Next, they illuminate key technologies ranging from WLCs to Lightweight Access Point Protocol (LWAPP) and Control and Provisioning of Wireless Access Points (CAPWAP), Fixed Mobile Convergence to WiFi Voice. They also show how to take advantage of the CUWN's end-to-end security, automatic configuration, self-healing, and integrated management capabilities. This book serves as a practical, hands-on reference for all network administrators, designers, and engineers through the entire project lifecycle, and an authoritative learning tool for new wireless certification programs. This is the only book that Fully covers the principles and components of next-generation wireless networks built with Cisco WLCs and Cisco 802.11n AP Brings together real-

world tips, insights, and best practices for designing and implementing next-generation wireless networks Presents start-to-finish configuration examples for common deployment scenarios Reflects the extensive first-hand experience of Cisco experts Gain an operational and design-level understanding of WLAN Controller (WLC) architectures, related technologies, and the problems they solve Understand 802.11n, MIMO, and protocols developed to support WLC architecture Use Cisco technologies to enhance wireless network reliability, resilience, and scalability while reducing operating expenses Safeguard your assets using Cisco Unified Wireless Network's advanced security features Design wireless networks capable of serving as an enterprise's primary or only access network and supporting advanced mobility services Utilize Cisco Wireless Control System (WCS) to plan, deploy, monitor, troubleshoot, and report on wireless networks throughout their lifecycles Configure Cisco wireless LANs for multicasting Quickly

troubleshoot problems with Cisco controller-based wireless LANs This book is part of the Cisco Press® Fundamentals Series. Books in this series introduce networking professionals to new networking technologies, covering network topologies, sample deployment concepts, protocols, and management techniques. Category: Wireless Covers: Cisco Controller-Based Wireless LANs [Deploying Windows 10 Using Microsoft Deployment Toolkit](#) "O'Reilly Media, Inc." This is the eBook of the printed book and may not include any media, website access codes, or print supplements that may come packaged with the bound book. Used by sites as varied as Twitter, GitHub, Disney, and Airbnb, Ruby on Rails is one of the most popular frameworks for developing web applications, but it can be challenging to learn and use. Whether you're new to web development or new only to Rails, Ruby on Rails™ Tutorial, Fourth Edition, is the solution. Best-selling author and leading Rails developer Michael Hartl teaches Rails by guiding you through the development

of three example applications of increasing sophistication. The tutorial's examples focus on the general principles of web development needed for virtually any kind of website. The updates to this edition include full compatibility with Rails 5, a division of the largest chapters into more manageable units, and a huge number of new exercises interspersed in each chapter for maximum reinforcement of the material. This indispensable guide provides integrated tutorials not only for Rails, but also for the essential Ruby, HTML, CSS, and SQL skills you need when developing web applications. Hartl explains how each new technique solves a real-world problem, and then he demonstrates it with bite-sized code that's simple enough to understand, yet novel enough to be useful. Whatever your previous web development experience, this book will guide you to true Rails mastery. This book will help you Install and set up your Rails development environment, including pre-installed integrated development environment (IDE) in the cloud Go

beyond generated code to truly understand how to build Rails applications from scratch Learn testing and test-driven development (TDD) Effectively use the Model-View-Controller (MVC) pattern Structure applications using the REST architecture Build static pages and transform them into dynamic ones Master the Ruby programming skills all Rails developers need Create high-quality site layouts and data models Implement registration and authentication systems, including validation and secure passwords Update, display, and delete users Upload images in production using a cloud storage service Implement account activation and password reset, including sending email with Rails Add social features and microblogging, including an introduction to Ajax Record version changes with Git and create a secure remote repository at Bitbucket Deploy your applications early and often with Heroku [Ruby on Rails Tutorial](#) "O'Reilly Media, Inc." Create, deploy, and test your Python applications, analyses, and models with ease using Streamlit Key

Features Learn how to showcase machine learning models in a Streamlit application effectively and efficiently Become an expert Streamlit creator by getting hands-on with complex application creation Discover how Streamlit enables you to create and deploy apps effortlessly Book Description Streamlit shortens the development time for the creation of data-focused web applications, allowing data scientists to create web app prototypes using Python in hours instead of days. Getting Started with Streamlit for Data Science takes a hands-on approach to helping you learn the tips and tricks that will have you up and running with Streamlit in no time. You'll start with the fundamentals of Streamlit by creating a basic app and gradually build on the foundation by producing high-quality graphics with data visualization and testing machine learning models. As you advance through the chapters, you'll walk through practical examples of both personal data projects and work-related data-focused web applications, and get to grips with more challenging topics such as

using Streamlit Components, beautifying your apps, and quick deployment of your new apps. By the end of this book, you'll be able to create dynamic web apps in Streamlit quickly and effortlessly using the power of Python. What you will learn Set up your first development environment and create a basic Streamlit app from scratch Explore methods for uploading, downloading, and manipulating data in Streamlit apps Create dynamic visualizations in Streamlit using built-in and imported Python libraries Discover strategies for creating and deploying machine learning models in Streamlit Use Streamlit sharing for one-click deployment Beautify Streamlit apps using themes, Streamlit Components, and Streamlit sidebar

Implement best practices for prototyping your data science work with Streamlit Who this book is for This book is for data scientists and machine learning enthusiasts who want to create web apps using Streamlit. Whether you're a junior data scientist looking to deploy your first machine learning project in Python to improve your resume or a senior data scientist who wants to use Streamlit to make convincing and dynamic data analyses, this book will help you get there! Prior knowledge of Python programming will assist with understanding the concepts covered.

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