Ansible For Devops Secure Shell Software

Richard Johnson

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DevOps for the Desperate Bradley Smith,2022-07-12 DevOps for the Desperate is a hands on no nonsense guide for those who land in a DevOps environment and need to get up and running quickly This book introduces fundamental concepts software developers need to know to flourish in a modern DevOps environment including infrastructure as code configuration management security containerization and orchestration monitoring and alerting and troubleshooting Readers will follow along with hands on examples to learn how to tackle common DevOps tasks The book begins with an exploration of DevOps concepts using Vagrant and Ansible to build systems with repeatable and predictable states including configuring a host with user based security Next up is a crash course on containerization orchestration and delivery using Docker Kubernetes and a CI CDpipeline The book concludes with a primer in monitoring and alerting with tips for troubleshootingcommon host and application issues You ll learn how to Use Ansible to manage users and groups and enforce complex passwords Create a security policy for administrative permissions and automate a host based firewall Get started with Docker to containerize applications use Kubernetes for orchestration and deploycode using a CI CD pipeline Build a monitoring stack investigate common metric patterns and trigger alerts Troubleshoot and analyze common issues and errors found on hosts **From Code to Cloud: A Complete Guide to Modern DevOps and Infrastructure Engineering** Pathik Bavadiya,2025-05-23 The path from creating code to deploying scalable and resilient applications on the cloud has become an essential component of modern software engineering This is because the technological landscape is quickly growing in which we currently find ourselves From Code to Cloud A Complete Guide to Modern DevOps and Infrastructure Engineering is intended to serve as a comprehensive roadmap for developers operations engineers architects and technology leaders who are interested in mastering the principles tools and practices that drive modern DevOps and infrastructure at scale The book is titled From Code to Cloud By examining the ways in which automation continuous integration and deployment CI CD cloud native architecture containerization Infrastructure as Code IaC and Site Reliability Engineering SRE collaborate to deliver dependable and high performing software this book helps to bridge the gap that exists between development and operations Rather than only gaining an understanding of the individual components the objective is to acquire an understanding of how these components interact with one another to produce a coherent ecosystem that fosters innovation while preserving organizational excellence This guide provides you with practical insights real world examples and best practices to assist you in navigating the full lifecycle of software delivery beginning with a single line of code and ending with a globally distributed cloud infrastructure It is applicable whether you are currently in the process of modernizing legacy systems or building cloud native applications from the ground up **Secure Shell Essentials** Richard Johnson,2025-06-06 Secure Shell Essentials Secure Shell Essentials offers an authoritative and technically rigorous exploration of SSH the foundational protocol securing modern remote access Beginning with its architectural history the book contrasts legacy protocols with the robust security

model and cryptographic innovations that underpin SSH s enduring relevance Readers are guided through the protocol s structure key management strategies and authentication mechanisms developing a nuanced appreciation of both theoretical foundations and practical trade offs The book systematically addresses the complexities of SSH configuration usage and deployment at every scale covering everything from fine tuned server and client configurations to advanced tunneling port forwarding and proxy architectures Detailed chapters on automation and DevOps illuminate SSH s pivotal role in orchestrating secure infrastructure as code CI CD pipelines and cloud native environments Security professionals will find in depth analysis on key threats privileged access management audit techniques and incident response equipping them to anticipate and neutralize emerging risks Concluding with a look toward the future Secure Shell Essentials navigates evolving threats standards and the adoption of post quantum cryptography within the SSH ecosystem Featuring practical guidance architecture blueprints for enterprise deployments and insights into open source implementations this book is a comprehensive resource for system administrators security engineers and anyone committed to mastering the principles and practice of secure remote connectivity **IT Helpdesk Training Best Practices** Rob Botwright,2024 Introducing IT Helpdesk Training Best Practices Bundle Are you ready to level up your IT support skills Look no further Dive into the ultimate bundle designed to transform you into a desktop support and system administration expert Book 1 Foundations of IT Support New to IT No problem This beginner s guide will walk you through the essentials of desktop troubleshooting from diagnosing hardware issues to resolving software glitches Get ready to build a solid foundation for your IT career Book 2 Mastering Desktop Support Ready to take your skills to the next level Learn advanced techniques in system administration to optimize desktop environments and tackle complex IT challenges with confidence Become the go to expert in your team Book 3 Efficient IT Helpdesk Management Efficiency is key in IT helpdesk management Discover strategies for streamlining support processes managing tickets effectively and keeping stakeholders happy Say goodbye to chaos and hello to smooth operations Book 4 Expert Level Troubleshooting Become a troubleshooting maestro with this expert level guide Learn advanced solutions for the most complex IT issues from network troubleshooting to data recovery techniques Elevate your troubleshooting game to legendary status With over 1000 pages of invaluable insights and practical techniques this bundle is your ticket to success in the fast paced world of IT support and system administration Don t miss out on this opportunity to become a true IT rockstar Grab your copy now and embark on a journey to IT mastery **VMware Infrastructure Essentials** Richard Johnson,2025-06-02 VMware Infrastructure Essentials VMware Infrastructure Essentials is an authoritative guide purpose built for IT professionals and enterprise architects navigating the expanding landscape of VMware virtualization Carefully structured across nine comprehensive chapters this book lays a solid foundation beginning with core platform architecture and delving into the deeper mechanics of ESXi vCenter Server and supporting modules Readers are afforded detailed insights into hypervisor internals virtual machine configuration deployment models platform

interoperability and strategic licensing making it indispensable for both designing robust infrastructures and optimizing existing deployments The coverage extends expertly into the operational domains of host lifecycle management advanced networking and scalable enterprise storage From automated ESXi deployment to intricate resource scheduling distributed switching micro segmentation with NSX and data persistence via vSAN and external integrations each topic is addressed with technical precision and best practice guidance The book provides actionable frameworks for clustering high availability performance analysis and proactive capacity planning empowering readers to maintain resilient high performing environments regardless of scale Security compliance automation and hybrid cloud integration round out the book s focus Readers will master identity management encrypted communication compliance automation and event driven remediation alongside deep dives into vSphere APIs Infrastructure as Code with PowerCLI and Terraform and DevOps enabling workflows Future oriented chapters demystify hybrid and multi cloud integration disaster recovery orchestration and modern deployments with Kubernetes and VMware Tanzu VMware Infrastructure Essentials is your definitive companion for building secure automated and cloud ready VMware environments suited for today s dynamic enterprise IT demands   *Ansible for DevOps* Jeff Geerling,2020-08-05 Ansible is a simple but powerful server and configuration management tool Learn to use Ansible effectively whether you manage one server or thousands   *Solutions Architect's Handbook* Saurabh Shrivastava,Neelanjali Srivastav,2024-03-29 From fundamentals and design patterns to the latest techniques such as generative AI machine learning and cloud native architecture gain all you need to be a pro Solutions Architect crafting secure and reliable AWS architecture Get With Your Book PDF Copy AI Assistant and Next Gen Reader Free Key Features Hits all the key areas Rajesh Sheth VP Elastic Block Store AWS Offers the knowledge you need to succeed in the evolving landscape of tech architecture Luis Lopez Soria Senior Specialist Solutions Architect Google A valuable resource for enterprise strategists looking to build resilient applications Cher Simon Principal Solutions Architect AWS Book DescriptionBuild a strong foundation in solution architecture and excel in your career with the Solutions Architect s Handbook Authored by seasoned AWS technology leaders Saurabh Shrivastav and Neelanjali Srivastav this book goes beyond traditional certification guides offering in depth insights and advanced techniques to meet the specific needs and challenges of solutions architects today This edition introduces exciting new features that keep you at the forefront of this evolving field From large language models and generative AI to deep learning innovations these cutting edge advancements are shaping the future of technology Key topics such as cloud native architecture data engineering architecture cloud optimization mainframe modernization and building cost efficient secure architectures remain essential today This book covers both emerging and foundational technologies guiding you through solution architecture design with key principles and providing the knowledge you need to succeed as a Solutions Architect It also sharpens your soft skills providing career accelerating techniques to stay ahead By the end of this book you will be able to harness cutting edge technologies apply practical

insights from real world scenarios and enhance your solution architecture skills with the Solutions Architect s Handbook What you will learn Explore various roles of a solutions architect in the enterprise Apply design principles for high performance cost effective solutions Choose the best strategies to secure your architectures and boost availability Develop a DevOps and CloudOps mindset for collaboration operational efficiency and streamlined production Apply machine learning data engineering LLMs and generative AI for improved security and performance Modernize legacy systems into cloud native architectures with proven real world strategies Master key solutions architect soft skills Who this book is for This book is for software developers system engineers DevOps engineers architects and team leaders who already work in the IT industry and aspire to become solutions architect professionals Solutions architects who want to expand their skillset or get a better understanding of new technologies will also learn valuable new skills To get started you ll need a good understanding of the real world software development process and some awareness of cloud technology *Programming and Automating Cisco Networks* Ryan Tischer,Jason Gooley,2016-09-09 Improve operations and agility in any data center campus LAN or WAN Today the best way to stay in control of your network is to address devices programmatically and automate network interactions In this book Cisco experts Ryan Tischer and Jason Gooley show you how to do just that You ll learn how to use programmability and automation to solve business problems reduce costs promote agility and innovation handle accelerating complexity and add value in any data center campus LAN or WAN The authors show you how to create production solutions that run on or interact with Nexus NX OS based switches Cisco ACI Campus and WAN technologies You ll learn how to use advanced Cisco tools together with industry standard languages and platforms including Python JSON and Linux The authors demonstrate how to support dynamic application environments tighten links between apps and infrastructure and make DevOps work better This book will be an indispensable resource for network and cloud designers architects DevOps engineers security specialists and every professional who wants to build or operate high efficiency networks Drive more value through programmability and automation freeing resources for high value innovation Move beyond error prone box by box network management Bridge management gaps arising from current operational models Write NX OS software to run on access or extend your Nexus switch Master Cisco s powerful on box automation and operation tools Manage complex WANs with NetConf Yang ConfD and Cisco SDN Controller Interact with and enhance Cisco Application Centric Infrastructure ACI Build self service catalogs to accelerate application delivery Find resources for deepening your expertise in network automation Ansible for Devops David Johnson,2016-10-11 This book is an exploration of Ansible for DevOps The application of DevOps in software use and development of software is on the rise hence you need to know how to apply it in Ansible Various strategies that can be used for deployments with Ansible are discussed in this book This book guides you on how to perform a Single server deployment in Ansible You will also be guided on how to perform Zero downtime multi server deployments as well as Capistrano style and blue green deployments Examples have been given using apps developed in

various programming languages Most commands in Ansible are viewed to be complex and take a long time to complete However by use of Ad hoc commands one can perform a number of tasks easily and quickly This book will help you understand how to use Ad hoc commands for user and group management as well as Cron jobs which are good when it comes to the scheduling of the various tasks in Ansible This book guides you on to use Ad Hoc commands for setting up and managing cron job in Ansible You will also be shown how to use these commands for configuration of both database and application servers Here is a preview of what you ll learn Deployments with Ansible Ad Hoc Commands Inventories

Ansible for DevOps David Johnson,2016-11-28 This book is an exploration of Ansible for DevOps The application of DevOps in software use and development of software is on the rise hence you need to know how to apply it in Ansible Various strategies that can be used for deployments with Ansible are discussed in this book This book guides you on how to perform a Single server deployment in Ansible You will also be guided on how to perform Zero downtime multi server deployments as well as Capistrano style and blue green deployments Examples have been given using apps developed in various programming languages Most commands in Ansible are viewed to be complex and take a long time to complete However by use of Ad hoc commands one can perform a number of tasks easily and quickly This book will help you understand how to use Ad hoc commands for user and group management as well as Cron jobs which are good when it comes to the scheduling of the various tasks in Ansible This book guides you on to use Ad Hoc commands for setting up and managing cron job in Ansible You will also be shown how to use these commands for configuration of both database and application servers

Learn Ansible Russ McKendrick,2024-05-31 Learn how to write and run Ansible Playbooks from the basics to launching complex multi tier applications across public cloud platforms such as Amazon Web Services AWS and Microsoft Azure Key Features Write roles to automate everything from basic apps to the entire cloud infrastructure Leverage Ansible s module ecosystem to streamline tasks across cloud platforms operating systems and apps Adopt DevOps practices and integrate Ansible with CI CD platforms to streamline automation workflows Purchase of the print or Kindle book includes a free PDF eBook Book DescriptionAre you tired of manually deploying and managing your infrastructure and looking for ways to streamline your deployments introduce consistency and collaboration and save time If so then Learn Ansible is for you Written by a DevOps practitioner and system administrator with 30 years of experience this book will teach you how to automate repetitive tasks and effortlessly manage several resources from a single code base From installing Ansible and writing your first playbook to deploying multi tier applications across different cloud platforms this book will take you on an exciting learning journey By learning the art of defining highly available cloud infrastructure using code you ll find it easy to distribute configurations alongside your application You ll explore Ansible Galaxy learn about community contributed Ansible roles and discover how to create and share your own roles Later the book delves into the capabilities of Ansible AWX and integrating Ansible with your CI CD pipelines using Azure DevOps and GitHub Actions With real world examples and hands

on tutorials you ll build a solid foundation to tackle any automation project By the end of this book you ll be able to confidently implement Ansible in your environment and day to day workflows taking your deployments to the next level What you will learn Understand how to install and configure Ansible on Linux macOS and Windows Write Ansible playbooks to automate system configuration and deployment Deploy applications such as LAMP stacks and WordPress using Ansible Create reusable roles and use Ansible Galaxy for sharing Automate infrastructure deployments on cloud platforms such as AWS and Azure Execute your Ansible playbooks with GitHub Actions and Azure DevOps Scan playbooks for security issues and secure systems using Ansible Centralize and manage Ansible deployments using Ansible AWX Who this book is for Learn Ansible is for system administrators developers and infrastructure engineers who want to implement infrastructure automation and configuration management using Ansible The hands on tutorials make this book ideal for both beginners as well as intermediate users looking to take their Ansible skills to the next level Technology professionals working with public cloud platforms like AWS and Azure will also find valuable insights into automating deployments   Implementing DevOps with Ansible 2 Jonathan McAllister,2017-07-21 Leverage the power of Ansible 2 and related tools and scale DevOps processes About This Book Learn how to use Ansible playbooks along with YAML and JINJA to create efficient DevOps solutions Use Ansible to provision and automate Docker containers and images Learn the fundamentals of Continuous Integration and Continuous Delivery and how to leverage Ansible to implement these modern DevOps Learn the fundamentals of creating custom Ansible modules Learn the fundamentals of Ansible Galaxy Follow along step by step as we teach you to scale Ansible for your DevOps processes Who This Book Is For If you are a DevOps engineer administrator or developer and want to implement the DevOps environment in your organization using Ansible then this book is for you What You Will Learn Get to the grips with the fundamentals of Ansible 2 2 and how you can benefit from leveraging Ansible for DevOps Adapt the DevOps process and learn how Ansible and other tools can be used to automate it Start automating Continuous Integration and Continuous Delivery tasks using Ansible Maximize the advantages of tools such as Docker Jenkins JIRA and many more to implement the DevOps culture Integrate DevOps tools with Ansible Extend Ansible using Python and create custom modules that integrate with unique specific technology stacks Connect and control the states of various third party applications such as GIT SVN Artifactory Nexus Jira Hipchat Slack Nginx and others In Detail Thinking about adapting the DevOps culture for your organization using a very simple yet powerful automation tool Ansible 2 Then this book is for you In this book you will start with the role of Ansible in the DevOps module which covers fundamental DevOps practices and how Ansible is leveraged by DevOps organizations to implement consistent and simplified configuration management and deployment You will then move on to the next module Ansible with DevOps where you will understand Ansible fundamentals and how Ansible Playbooks can be used for simple configuration management and deployment tasks After simpler tasks you will move on to the third module Ansible Syntax and Playbook Development where you will learn advanced configuration management

implementations and use Ansible Vault to secure top secret information in your organization In this module you will also learn about popular DevOps tools and the support that Ansible provides for them MYSQL NGINX APACHE and so on The last module Scaling Ansible for the enterprise is where you will integrate Ansible with CI and CD solutions and provision Docker containers using Ansible By the end of the book you will have learned to use Ansible to leverage your DevOps tasks Style and approach A step by step guide to automating all DevOps stages with ease using Ansible **Ansible Playbook Essentials** Gourav Shah,2015-08-05 Design automation blueprints using Ansible s playbooks to orchestrate and manage your multi tier infrastructure About This Book Get to grips with Ansible s features such as orchestration automatic node discovery and data encryption Create data driven modular and reusable automation code with Ansible roles facts variables and templates A step by step approach to automating and managing system and application configurations effectively using Ansible s playbooks Who This Book Is For If you are a systems or automation engineer who intends to automate common infrastructure tasks deploy applications and use orchestration to configure systems in a co ordinated manner then this book is for you Some understanding of the Linux UNIX command line interface is expected What You Will Learn Write simple tasks and plays Organize code into a reusable modular structure Separate code from data using variables and Jinja2 templates Run custom commands and scripts using Ansible s command modules Control execution flow based on conditionals Integrate nodes and discover topology information about other nodes in the cluster Encrypt data with ansible vault Create environments with isolated configurations to match application development workflow Orchestrate infrastructure and deploy applications in a coordinated manner In Detail Ansible combines configuration management orchestration and parallel command execution into a single tool Its batteries included approach and built in module library makes it easy to integrate it with cloud platforms databases and notification services without requiring additional plugins Playbooks in Ansible define the policies your systems under management enforce They facilitate effective configuration management rather than running ad hoc scripts to deploy complex applications This book will show you how to write a blueprint of your infrastructure encompassing multi tier applications using Ansible s playbooks Beginning with the basic concepts such as plays tasks handlers inventory and the YAML syntax that Ansible uses you will see how to organize your code into a modular structure Building on this you will master techniques to create data driven playbooks with variables templates logical constructs and encrypted data This book will also take you through advanced clustering concepts such as discovering topology information managing multiple environments and orchestration By the end of this book you will be able to design solutions to your automation and orchestration problems using playbooks quickly and efficiently Style and approach This book follows a step by step approach with the concepts explained in a conversational and easy to follow style Each topic is explained sequentially in the process of creating a course A comprehensive explanation of the basic and advanced features of Ansible playbooks is also included *Mastering Ansible* James Freeman,Jesse Keating,2019-03-25 Design develop and solve real world automation and

orchestration problems by unlocking the automation capabilities of Ansible Key FeaturesTackle complex automation challenges with the newly added features in Ansible 2 7Book Description Automation is essential for success in the modern world of DevOps Ansible provides a simple yet powerful automation engine for tackling complex automation challenges This book will take you on a journey that will help you exploit the latest version s advanced features to help you increase efficiency and accomplish complex orchestrations This book will help you understand how Ansible 2 7 works at a fundamental level and will also teach you to leverage its advanced capabilities Throughout this book you will learn how to encrypt Ansible content at rest and decrypt data at runtime Next this book will act as an ideal resource to help you master the advanced features and capabilities required to tackle complex automation challenges Later it will walk you through workflows use cases orchestrations troubleshooting and Ansible extensions Lastly you will examine and debug Ansible operations helping you to understand and resolve issues By the end of the book you will be able to unlock the true power of the Ansible automation engine and tackle complex real world actions with ease What you will learnGain an in depth understanding of how Ansible works under the hoodFully automate Ansible playbook executions with encrypted dataAccess and manipulate variable data within playbooksUse blocks to perform failure recovery or cleanupExplore the Playbook debugger and the Ansible ConsoleTroubleshoot unexpected behavior effectivelyWork with cloud infrastructure providers and container systemsDevelop custom modules plugins and dynamic inventory sourcesWho this book is for This book is for Ansible developers and operators who have an understanding of its core elements and applications but are now looking to enhance their skills in applying automation using Ansible   *Ansible for DevOps - A Comprehensive Guide from Beginner to Intermediate* Lyron Foster,2023-03-05 This book is a practical guide for anyone who wants to learn how to use Ansible for DevOps automation The book provides a step by step approach to learning Ansible starting with the basics of installation and configuration and gradually building up to advanced concepts and techniques The book covers essential topics such as Ansible Playbooks Modules and Roles as well as Ansible Inventory and Configuration Management It also explores Ansible s capabilities in Cloud Infrastructure Continuous Integration Continuous Deployment CI CD and advanced concepts such as Ansible Tower and Galaxy Each chapter includes hands on exercises and examples that help readers gain practical experience in using Ansible for DevOps automation The book is suitable for beginners and intermediate users who want to learn how to use Ansible to simplify and streamline their IT infrastructure management The book s clear and concise language along with its practical approach make it an invaluable resource for DevOps professionals who want to learn how to use Ansible effectively Whether you are new to Ansible or an experienced user looking to expand your skills Ansible for DevOps A Comprehensive Guide from Beginner to Intermediate is an essential guide for mastering Ansible and DevOps automation   Practical Ansible Vincent Sesto,2020-12-04 Go from the basics of using Ansible to becoming proficient at implementing configuration management in your projects This book uses a unique approach to teaching Ansible and configuration management while

including realistic examples in its day to day use from server based infrastructure to Amazon cloud based deployments Practical Ansible is separated into seven chapters that allow you to build your knowledge with each chapter developing further as we move through the examples provided It begins with the basics of Ansible providing you with details on how to install and configure your environment while working with different Ansible modules from the command line Next it introduces you to working with Ansible tasks and organizing configuration code into playbooks The book then shows you how to extend playbooks further using roles and templates within the configuration code Then it extends your knowledge further by covering custom Ansible modules using Python and Linux shell scripts and demonstrating how you can start to keep your secret values encrypted and secure using Ansible Vault You ll also extend Ansible roles with the use of Ansible Galaxy to reuse existing roles other users have created The second half of the book moves configuration management to the Amazon cloud providing an introduction on what Amazon Web Services are and how you can start to work with Ansible roles in AWS The AWS examples use EC2 and CloudFormation services with Ansible template functions Ansible Pull and Ansible Git code deployment The final part of the book includes a demonstration on how to use the numerous tools available to both Ansible and supporting libraries and modules to allow you to troubleshoot and test your configuration code before you deploy your changes to production systems By the end of this book you will have the skills for managing technology configuration management You will be ready to work on real world projects and be able to implement Ansible in your own technology projects What You Will Learn Understand the basics of Ansible and how to install and configure the application on your system Make changes to your system using Ansible directly in the command line using some of the more common Ansible modules Group your modules together as tasks in Ansible playbooks for more efficient deployment of configuration changes Use Ansible roles to help group and reuse configuration management changes and deployments Search for community created roles using Ansible Galaxy and how you can also host your own Ansible roles Deploy code to Amazon Web Services and how to utilize different AWS services in your deployment projects Use external modules and libraries such as Molecule and Ansible Lint to help test your configurations before the configuration code is deployed Who This Book Is For System administrators DevOps engineers software engineers and developers wanting to extend their current knowledge of computer systems and incorporate Ansible as a configuration management tool within them *Mastering Ansible* James Freeman,Jesse Keating,2021-12-09 Design develop and solve real world automation and orchestration problems by unlocking Ansible s automation capabilities Key FeaturesCompletely revised and updated for Ansible 4 0 and beyondTackle complex automation challenges with the newly added features in AnsibleLearn about the rapidly expanding field of network automation using Ansible with the help of practical examples for configuring network devicesBook Description Ansible is a modern YAML based automation tool built on top of Python one of the world s most popular programming languages with a massive and ever growing user base Its popularity and Python underpinnings make it essential learning for all in the DevOps

space This fourth edition of Mastering Ansible provides complete coverage of Ansible automation from the design and architecture of the tool and basic automation with playbooks to writing and debugging your own Python based extensions You ll learn how to build automation workflows with Ansible s extensive built in library of collections modules and plugins You ll then look at extending the modules and plugins with Python based code and even build your own collections ultimately learning how to give back to the Ansible community By the end of this Ansible book you ll be confident in all aspects of Ansible automation from the fundamentals of playbook design to getting under the hood and extending and adapting Ansible to solve new automation challenges What you will learnGain an in depth understanding of how Ansible works under the hoodGet to grips with Ansible collections and how they are changing and shaping the future of AnsibleFully automate the Ansible playbook executions with encrypted dataUse blocks to construct failure recovery or cleanupExplore the playbook debugger and Ansible consoleTroubleshoot unexpected behavior effectivelyWork with cloud infrastructure providers and container systemsWho this book is for If you are an Ansible developer or operator who has a detailed understanding of its core elements and applications but are now looking to enhance your skills in applying automation using Ansible this book is for you Prior experience working with core system administration tasks on Linux and basic familiarity with concepts such as cloud computing containers network devices and fundamentals of a high level programming language will help you make the most of this book *Practical Ansible* James Freeman,Fabio Alessandro Locati,Daniel Oh,2023-09-29 Leverage the power of Ansible to gain complete control over your systems and automate deployments along with implementing configuration changes Key Features Orchestrate major cloud platforms such as OpenStack AWS and Azure Use Ansible to automate network devices Automate your containerized workload with Docker Podman or Kubernetes Purchase of the print or Kindle book includes a free PDF eBook Book DescriptionAnsible empowers you to automate a myriad of tasks including software provisioning configuration management infrastructure deployment and application rollouts It can be used as a deployment tool as well as an orchestration tool While Ansible provides simple yet powerful features to automate multi layer environments using agentless communication it can also solve other critical IT challenges such as ensuring continuous integration and continuous deployment CI CD with zero downtime In this book you ll work with the latest release of Ansible and learn how to solve complex issues quickly with the help of task oriented scenarios You ll start by installing and configuring Ansible on Linux and macOS to automate monotonous and repetitive IT tasks and learn concepts such as playbooks inventories and roles As you progress you ll gain insight into the YAML syntax and learn how to port between Ansible versions Additionally you ll understand how Ansible enables you to orchestrate multi layer environments such as networks containers and the cloud By the end of this Ansible book you ll be well versed in writing playbooks and other related Ansible code to overcome all your IT challenges from infrastructure as a code provisioning to application deployments and handling mundane day to day maintenance tasks What you will learn Explore the fundamentals of the Ansible framework

Understand how collections enhance your automation efforts Avoid common mistakes and pitfalls when writing automation code Extend Ansible by developing your own modules and plugins Contribute to the Ansible project by submitting your own code Follow best practices for working with cloud environment inventories Troubleshoot issues triggered during Ansible playbook runs Who this book is forThis book is for DevOps engineers administrators or any IT professionals looking to automate IT tasks using Ansible Prior knowledge of Ansible is not a prerequisite   **Ansible: Up and Running** Lorin Hochstein,2014-12-08 Among the many configuration management tools available Ansible has some distinct advantages it s minimal in nature you don t need to install anything on your nodes and it has an easy learning curve This practical guide shows you how to be productive with this tool quickly whether you re a developer deploying code to production or a system administrator looking for a better automation solution Author Lorin Hochstein shows you how to write playbooks Ansible s configuration management scripts manage remote servers and explore the tool s real power built in declarative modules You ll discover that Ansible has the functionality you need and the simplicity you desire Understand how Ansible differs from other configuration management systems Use the YAML file format to write your own playbooks Learn Ansible s support for variables and facts Work with a complete example to deploy a non trivial application Use roles to simplify and reuse playbooks Make playbooks run faster with ssh multiplexing pipelining and parallelism Deploy applications to Amazon EC2 and other cloud platforms Use Ansible to create Docker images and deploy Docker containers   **DevOps for SharePoint** Oscar Medina,Ethan Schumann,2018-10-29 Deploy a SharePoint farm in a repeatable predictable and reliable fashion using Infrastructure as Code IaC techniques to automate provisioning Savvy IT pros will learn how to use DevOps practices and open source tools to greatly reduce costs and streamline management operations for SharePoint farms deployed via Amazon Web Services AWS Azure or on premise DevOps for SharePoint will help you navigate the complex challenges of deploying and managing SharePoint Server farms You will learn how to reduce time consuming tasks and errors when generating development testing or production environments And you will benefit from learning proven methods to apply Microsoft updates with minimal downtime and productivity loss Whether you are a SharePoint architect IT pro or developer helping customers with the SharePoint platform this book will teach you the most useful DevOps practices to tackle those issues and broaden your skill set What You ll Learn Understand the basics of the most popular open source tools Vagrant Packer Terraform and Ansible and how to use them in the context of deploying and scaling a SharePoint farm Use Vagrant to build SharePoint development environments in less than an hour and add automated testing Use Packer to create a golden image with preconfigured settings and then use it as the base image in your Terraform configuration for both AWS and Azure farms Use Terraform to scale your SharePoint farm topology Use Red Hat s Ansible Playbooks to perform configuration management on your farm Use Terraform to deploy immutable infrastructure environments using IaC Infrastructure as Code Use InSpec 2 0 to stay in compliance by testing your cloud infrastructure Use Ansible to apply Microsoft updates and patches

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Ansible For Devops Secure Shell Software Introduction

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