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Mastering Ansible

Design, develop, and solve real world automation and orchestration needs by unlocking the automation capabilities of Ansible

Jesse Keating

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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 Features Tackle complex automation challenges with the newly added features in Ansible 2.7 Book 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 learn Gain an in depth understanding of how Ansible works under the hood Fully automate Ansible playbook executions with encrypted data Access and manipulate variable data within playbooks Use blocks to perform failure recovery or cleanup Explore the Playbook debugger and the Ansible Console Troubleshoot unexpected behavior effectively Work with cloud infrastructure providers and container systems Develop custom modules plugins and dynamic inventory sources Who 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

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 Features Completely revised and updated for Ansible 4.0 and beyond Tackle complex automation challenges with the newly added features in Ansible Learn about the rapidly expanding field of network automation using Ansible with the help of practical examples for configuring network devices Book 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 learn Gain an in depth understanding of how Ansible works under the hood Get to grips with Ansible collections and how they are changing and shaping the future of Ansible Fully automate the Ansible playbook executions with encrypted data Use blocks to construct failure recovery or cleanup Explore the playbook debugger and Ansible console Troubleshoot unexpected behavior effectively Work with cloud infrastructure providers and container systems Who 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 Mastering Ansible Jesse Keating, 2015-11-24 Design develop and solve real world automation and orchestration needs by unlocking the automation capabilities of Ansible About This Book Discover how Ansible works in detail Explore use cases for Ansible's advanced features including task delegation fast failures and serial task execution Extend Ansible with custom modules plugins and inventory sources Who This Book Is For This book is intended for Ansible developers and operators who have an understanding of the core elements and applications but are now looking to enhance their skills in applying automation using Ansible What You Will Learn Understand Ansible's code and logic flow Safeguard sensitive data within Ansible Access and manipulate complex variable data within Ansible playbooks Handle task results to manipulate change and failure definitions Organize Ansible content into a simple structure Craft a multi tier rollout playbook utilizing load balancers and manipulating your monitoring system Utilize advanced Ansible features to orchestrate rolling updates with almost no service disruptions Troubleshoot Ansible failures to understand and resolve issues Extend Ansible with custom modules plugins or inventory sources In Detail Automation is critical to success in the world of DevOps How quickly and efficiently an application deployment can be automated or a new infrastructure can be built up can be the difference between a successful product or a failure Ansible provides a simple yet powerful automation engine Beyond the basics of Ansible lie a host of advanced features which are available to help you increase efficiency and accomplish complex orchestrations with ease This book provides you with the knowledge you need to understand how Ansible works at a fundamental level and leverage its advanced capabilities You'll learn how to encrypt Ansible content at rest and decrypt data at runtime You will master the advanced features and capabilities required to tackle the complex automation challenges of today and beyond You will gain detailed knowledge of Ansible workflows explore use cases for advanced features craft well thought out orchestrations troubleshoot unexpected behaviour and extend Ansible through customizations Finally you will discover the methods used to examine and debug Ansible operations helping you to understand and resolve issues Style and approach A clear practical guide that covers best practise system architecture and design aspects that will help you master Ansible with ease

Demystifying Ansible Automation Platform Sean Sullivan, 2022-09-30 Explore Ansible Automation Platform and understand how the different pieces interact to standardize and scale automation Key Features Curated by a senior consultant at Red Hat with real world examples to maximize use of Ansible Automation Platform Use roles and modules to create interactive playbooks in Ansible Automation Platform Discover best practices for simplifying management of Ansible Automation Platform Book Description While you can use any automation software to simplify task automation scaling automation to suit your growing business needs becomes difficult using only a command line tool Ansible Automation Platform standardizes how automation is deployed initiated delegated and audited and this comprehensive guide shows you how you can simplify and scale its management The book starts by taking you through the ways to get Ansible Automation Platform installed their pros and cons and the initial configuration You ll learn about each object in the platform how it interacts with other objects as well as best practices for defining and managing objects to save time You ll see how to maintain the created pieces with infrastructure as code As you advance you ll monitor workflows with CI CD playbooks and understand how Ansible Automation Platform integrates with many other services such as GitLab and GitHub By the end of this book you ll have worked through real world examples to make the most of the platform while learning how to manipulate manage and deploy any playbook to Ansible Automation Platform What you will learn Get the hang of different parts of Ansible Automation Platform and their maintenance Back up and restore an installation of Ansible Automation Platform Launch and configure basic and advanced workflows and jobs Create your own execution environment using CI CD pipelines Interact with Git Red Hat Authentication Server and logging services Integrate the Automation controller with services catalog Use Automation Mesh to scale Automation Controller Who this book is for This book is for IT administrators DevOps engineers cloud engineers and automation engineers seeking to understand and maintain the controller part of Ansible Automation Platform If you have basic knowledge of Ansible can set up a virtual machine or have OpenShift experience and want to know more about scaling Ansible this book is for you *Ansible for Real-Life Automation* Gineesh Madapparambath, 2022-09-30 Learn how to automate and manage your IT infrastructure and applications using Ansible Key Features Develop Ansible automation use cases by automating day to day IT and application operations Use Ansible to automate private and public cloud application containers and container platforms Improve your DevOps workflow with Ansible Book Description Get ready to leverage the power of Ansible s wide applicability to automate and manage IT infrastructure with Ansible for Real Life Automation This book will guide you in setting up and managing the free and open source automation tool and remote managed nodes in the production and dev staging environments Starting with its installation and deployment you ll learn automation using simple use cases in your workplace You ll go beyond just Linux machines to use Ansible to automate Microsoft Windows machines network devices and private and public cloud platforms such as VMWare AWS and GCP As you progress through the chapters you ll integrate Ansible into your DevOps workflow and

deal with application container management and container platforms such as Kubernetes This Ansible book also contains a detailed introduction to Red Hat Ansible Automation Platform to help you get up to speed with Red Hat AAP and integration with CI CD and ITSM What's more you'll implement efficient automation solutions while learning best practices and methods to secure sensitive data using Ansible Vault and alternatives to automate non supported platforms and operations using raw commands command modules and REST API calls By the end of this book you'll be proficient in identifying and developing real life automation use cases using Ansible What you will learn Explore real life IT automation use cases and employ Ansible for automation Develop playbooks with best practices for production environments Approach different automation use cases with the most suitable methods Use Ansible for infrastructure management and automate VMWare AWS and GCP Integrate Ansible with Terraform Jenkins OpenShift and Kubernetes Manage container platforms such as Kubernetes and OpenShift with Ansible Get to know the Red Hat Ansible Automation Platform and its capabilities Who this book is for This book is for DevOps and systems engineers looking to adopt Ansible as their automation tool To get started with this book basic knowledge of Linux is necessary along with an understanding of how tasks are done the manual way before setting out to automate them

Network Architect's Handbook Alim H. Ali, 2024-01-31 Follow a step by step roadmap to developing essential competencies in network architecture design relationship management systems and services coupled with certification guidance and expert tips Key Features Grasp the big picture of information technology infrastructure to become a successful network architect Overcome challenges to improve network performance and configuration management Advance your career by improving your skills using real life examples and practical advice from an industry expert Purchase of the print or Kindle book includes a free PDF eBook Book Description Becoming a network architect is challenging it demands hands on engineering skills collaboration with internal teams and C Suite stakeholders as well as adeptly managing external entities like vendors and service providers The author taps into his extensive background in IT and security to help you gain a detailed understanding of the network architect's role and guide you in evolving into an effective network architect within an organization fostering seamless communication with leadership teams and other stakeholders Starting with a clear definition of the network architect's role this book lays out a roadmap and discusses the attributes and mindset for success You'll explore network architect design physical infrastructure routing and switching and network services such as DNS MLAG and service insertion You'll also gain insights into the necessary skills and typical daily challenges faced by network architects And to thoroughly prepare you to advance in your career this handbook covers certifications and associated training for maintaining relevance in an organization along with common interview questions for a network architect's position By the end of this book you'll be armed with essential concepts techniques and newfound skills to pursue a career as a network architect What you will learn Examine the role of a network architect Understand the key design makers in an organization Choose the best strategies to meet stakeholder needs Be well versed with networking concepts

Prepare for a network architect position interview Distinguish the different IT architects in an organization Identify relevant certification for network architects Understand the various de facto network fabric architect models used today Who this book is for This book is for network engineers and technicians aspiring to transition into the role of a network architect Whether you are at the beginning of your journey or seeking guidance along the path this book will support you with its deep coverage of key aspects such as design concepts architectural requirements relevant experience certifications and advanced education with a special emphasis on cloud best practices A practical understanding of IT networking is necessary to get the most out of this book

Learning Ansible 2.7 Fabio Alessandro Locati, 2019-04-30 Use Ansible to configure your systems deploy software and orchestrate advanced IT tasks Key Features Get familiar with the fundamentals of Ansible 2.7 Understand how to use Ansible Tower to scale your IT automation Gain insights into how to develop and test Ansible playbooks Book Description Ansible is an open source automation platform that assists organizations with tasks such as application deployment orchestration and task automation With the release of Ansible 2.7 even complex tasks can be handled much more easily than before Learning Ansible 2.7 will help you take your first steps toward understanding the fundamentals and practical aspects of Ansible by introducing you to topics such as playbooks modules and the installation of Linux Berkeley Software Distribution BSD and Windows support In addition to this you will focus on various testing strategies deployment and orchestration to build on your knowledge The book will then help you get accustomed to features including cleaner architecture task blocks and playbook parsing which can help you to streamline automation processes Next you will learn how to integrate Ansible with cloud platforms such as Amazon Web Services AWS before gaining insights into the enterprise versions of Ansible Ansible Tower and Ansible Galaxy This will help you to use Ansible to interact with different operating systems and improve your working efficiency By the end of this book you will be equipped with the Ansible skills you need to automate complex tasks for your organization What you will learn Create a web server using Ansible Write a custom module and test it Deploy playbooks in the production environment Troubleshoot networks using Ansible Use Ansible Galaxy and Ansible Tower during deployment Deploy an application with Ansible on AWS Azure and DigitalOcean Who this book is for This beginner level book is for system administrators who want to automate their organization's infrastructure using Ansible 2.7 No prior knowledge of Ansible is required

Practical Ansible 2 Daniel Oh, James Freeman, Fabio Alessandro Locati, 2020-06-05 Leverage the power of Ansible to gain complete control over your systems and automate application deployment Key Features Use Ansible 2.9 to automate and control your infrastructure Delve into advanced functionality such as plugins and custom modules in Ansible Automate and orchestrate major cloud platforms such as OpenStack AWS and Azure using Ansible Book Description Ansible enables you to automate software provisioning configuration management and application roll outs and can be used as a deployment and 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 Ansible 2.9 and learn 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 get to grips with concepts such as playbooks inventories and network modules As you progress you ll gain insight into the YAML syntax and learn how to port between Ansible versions In addition to this you ll also 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 just about all of your IT challenges from infrastructure as code provisioning to application deployments and even handling the mundane day to day maintenance tasks that take up so much valuable time What you will learn Become familiar with the fundamentals of the Ansible framework Set up role based variables and dependencies Avoid common mistakes and pitfalls when writing automation code in Ansible 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 for If you are a DevOps engineer administrator or any IT professional looking to automate IT tasks using Ansible this book is for you Prior knowledge of Ansible is not necessary

Hands-On Enterprise Automation on Linux James

Freeman, 2020-01-24 Achieve enterprise automation in your Linux environment with this comprehensive guide Key Features Automate your Linux infrastructure with the help of practical use cases and real world scenarios Learn to plan build manage and customize OS releases in your environment Enhance the scalability and efficiency of your infrastructure with advanced Linux system administration concepts Book Description Automation is paramount if you want to run Linux in your enterprise effectively It helps you minimize costs by reducing manual operations ensuring compliance across data centers and accelerating deployments for your cloud infrastructures Complete with detailed explanations practical examples and self assessment questions this book will teach you how to manage your Linux estate and leverage Ansible to achieve effective levels of automation You ll learn important concepts on standard operating environments that lend themselves to automation and then build on this knowledge by applying Ansible to achieve standardization throughout your Linux environments By the end of this Linux automation book you ll be able to build deploy and manage an entire estate of Linux servers with higher reliability and lower overheads than ever before What you will learn Perform large scale automation of Linux environments in an enterprise Overcome the common challenges and pitfalls of extensive automation Define the business processes needed to support a large scale Linux environment Get well versed with the most effective and reliable patch management strategies Automate a range of tasks from simple user account changes to complex security policy enforcement Learn best practices and procedures to make your Linux environment automatable Who this book is for This book is for anyone who has a Linux environment to design implement and maintain Open source professionals including infrastructure architects and

system administrators will find this book useful You're expected to have experience in implementing and maintaining Linux servers along with knowledge of building patching and maintaining server infrastructure Although not necessary knowledge of Ansible or other automation technologies will be beneficial

Mastering GitLab 12 Joost Evertse, 2019-08-02 An expert guide to helping you use DevOps techniques with the latest GitLab version to optimize and manage your software workflow

Key Features Delve into GitLab's architecture and install and configure it to fit your environment Learn about the underlying principles of Agile software development and DevOps Explore GitLab's features to manage enterprise cloud native applications and services

Book Description GitLab is an open source repository management and version control toolkit with functions for enterprises and personal software projects It offers configurability options extensions and APIs that make it an ideal tool for enterprises to manage the software development life cycle This book begins by explaining GitLab options and the components of the GitLab architecture You will learn how to install and set up GitLab on premises and in the cloud along with understanding how to migrate code bases from different systems such as GitHub Concurrent Versions System Team Foundation Version Control and Subversion Later chapters will help you implement DevOps culture by introducing the workflow management tools in GitLab and continuous integration continuous deployment CI/CD In addition to this the book will guide you through installing GitLab on a range of cloud platforms monitoring with Prometheus and deploying an environment with GitLab You'll also focus on the GitLab CI component to assist you with creating development pipelines and jobs along with helping you set up GitLab runners for your own project Finally you will be able to choose a high availability setup that fits your needs and helps you monitor and act on results obtained after testing By the end of this book you will have gained the expertise you need to use GitLab features effectively and be able to integrate all phases in the development process

What you will learn Install GitLab on premises and in the cloud using a variety of configurations Conduct data migration from the SVN TFS CVS and GitHub platforms to GitLab Use GitLab runners to develop different types of configurations in software development Plan and perform CI/CD by using GitLab features Monitor and secure your software architecture using Prometheus and Grafana Implement DevOps culture by introducing workflow management tools in GitLab

Who this book is for If you are a software developer DevOps professional or any developer who wants to master GitLab for productive repository management in your day to day tasks this book is for you

Basic understanding of the software development workflow is assumed

The Linux DevOps Handbook Damian Wojsław, Grzegorz Adamowicz, 2023-11-17 Build a solid foundation in DevOps and Linux systems as well as advanced DevOps practices such as configuration IAC and CI/CD

Key Features Master Linux basics the command line and shell scripting Become a DevOps expert by mastering Docker Git monitoring automation and CI/CD Implement networking manage services and leverage Infrastructure as Code IaC

Purchase of the print or Kindle book includes a free PDF eBook

Book Description The Linux DevOps Handbook is a comprehensive resource that caters to both novice and experienced professionals ensuring a strong foundation in Linux This book will help

you understand how Linux serves as a cornerstone of DevOps offering the flexibility stability and scalability essential for modern software development and operations You ll begin by covering Linux distributions intermediate Linux concepts and shell scripting to get to grips with automating tasks and streamlining workflows You ll then progress to mastering essential day to day tools for DevOps tasks As you learn networking in Linux you ll be equipped with connection establishment and troubleshooting skills You ll also learn how to use Git for collaboration and efficient code management The book guides you through Docker concepts for optimizing your DevOps workflows and moves on to advanced DevOps practices such as monitoring tracing and distributed logging You ll work with Terraform and GitHub to implement continuous integration CI continuous deployment CD pipelines and employ Atlantis for automated software delivery Additionally you ll identify common DevOps pitfalls and strategies to avoid them By the end of this book you ll have built a solid foundation in Linux fundamentals practical tools and advanced practices all contributing to your enhanced Linux skills and successful DevOps implementation

What you will learn Understand how to manage infrastructure using Infrastructure as Code IaC tools such as Terraform and Atlantis Automate repetitive tasks using Ansible and Bash scripting Set up logging and monitoring solutions to maintain and troubleshoot your infrastructure Identify and understand how to avoid common DevOps pitfalls Automate tasks and streamline workflows using Linux and shell scripting Optimize DevOps workflows using Docker Who this book is for This book is for DevOps Engineers looking to extend their Linux and DevOps skills as well as System Administrators responsible for managing Linux servers who want to adopt DevOps practices to streamline their operations You ll also find this book useful if you want to build your skills and knowledge to work with public cloud technologies especially AWS to build and manage scalable and reliable systems

Ansible For Containers and Kubernetes By Examples Luca Berton, Save time managing Containers Kubernetes and OpenShift with Ansible automation technology with some real life examples Every successful IT department needs automation nowadays for bare metal servers virtual machines could containers and edge computing Automate your IT journey with Ansible automation technology I m going to teach you example by example how to accomplish the most common Containers Kubernetes OpenShift and System Administrator tasks You are going to start with the installation of Ansible in RedHat Enterprise Linux Ubuntu and macOS using the most command package manager and archives Each of the 10 lessons summarizes a module from the most important parameter to some demo of code and real life usage Each code is battle proved in the real life Console interaction and verification are included in every video You are going to save tons of time automating the container management automating with some lines of code and these are only some of the long lists included in the course Simplify your system administrator journey with Docker podman Kubernetes and OpenShift tools These are technologies very requested in the market nowadays Are you ready to automate your day with Ansible

[Ansible Automation Platform By Examples](#) Luca Berton, Learn the Red Hat Ansible Automation Platform with some real life examples As an expert in Ansible automation with over a decade of experience I can confidently say that the

Ansible Automation Platform is an excellent solution for automating IT infrastructure management. The installation process is straightforward and requires key steps to ensure successful implementation. The first step in installing the Ansible Automation Platform is setting up the necessary dependencies, which include installing Python and its related libraries. These dependencies are essential to the proper functioning of the platform, and it is crucial to ensure that they are installed correctly. Next, the Ansible Automation Platform packages are installed, which include the control node, the managed node, and the web-based interface. The control node executes Ansible playbooks, while the managed nodes are Ansible-managed systems. The web-based interface provides a user-friendly interface for managing Ansible operations. It is essential to ensure that the control node and managed nodes are correctly configured to prevent any operational issues. This includes setting up access control and security measures to protect sensitive information. One of the key benefits of the Ansible Automation Platform is its compatibility with various operating systems, including Linux, macOS, and Windows. This allows for greater flexibility in deployment and ensures that the platform can be implemented in virtually any environment. In conclusion, installing the Ansible Automation Platform is a critical step in automating IT infrastructure management. By following the proper installation procedures and configuring the platform to meet the organization's specific needs, the Ansible Automation Platform can greatly enhance productivity and streamline IT operations.

Ansible For Security by Examples Luca Berton, 2022-03-14. Ansible is an Open Source IT automation tool. This book contains all of the obvious and not so obvious best practices of Ansible automation for Security and Compliance. Every successful IT department needs automation nowadays for bare metal servers, virtual machines, containers, and edge computing. Automate your IT journey with Ansible automation technology. You are going to start with the installation of Ansible in Enterprise Linux, Community Linux, Windows, and macOS using the most command package manager and archives. Each of the 100 lessons summarizes a module from the most important parameter to some Ansible code and real-life usage. Each code is battle-proved in the real life. Simplifying mundane activities like creating a text file, extracting and archiving, fetching a repository using HTTPS or SSH connections could be automated with some lines of code, and these are only some of the long lists included in the course. There are some Ansible codes usable in all the Linux systems, some specific for RedHat, like Debian, like and Windows systems. The 20 Ansible troubleshooting lesson teaches you how to read the error message, how to reproduce, and the process of troubleshooting and resolution. Are you ready to automate your day with Ansible? Examples in the book are tested with the latest version of Ansible 2.9 and Ansible Core 2.11.

Ansible Linux Users & Groups By Examples Luca Berton, Learn the Ansible automation technology with some real-life examples. Every successful IT department needs automation nowadays for bare metal servers, virtual machines, containers, and edge computing. Automate your IT journey with Ansible automation technology. I'm going to teach you, example by example, how to manage users and groups in Linux and macOS operating systems, the most common System Administrator tasks. Each of the 20 lessons summarizes a specific scenario about user and groups.

management creating a user creating a new pair of a suitable SSH key and a home directory changing a password and specifying the encryption cipher removing the home directory and the mailbox or assigning a special nologin shell for temporarily disabled users Another user scenario that happens very often is when you need only to temporarily disable and enable a user Another useful administrator tool is group management to assign permission to resources to a bunch of users You could easily customize the example code with your username and use it in your everyday journey without any additional effort There are some Ansible codes usable in all the Linux systems battle tested for RedHat like and Debian like systems Are you ready to automate your day with Ansible Examples in the book are tested with the latest version of Ansible 2.9 and Ansible Core 2.11

Ansible Linux Filesystem By Examples Luca Berton, 2022 Ansible is an Open Source IT automation tool This book contains all of the obvious and not so obvious best practices of Ansible automation Every successful IT department needs automation nowadays for bare metal servers virtual machines could containers and edge computing Automate your IT journey with Ansible automation technology You are going to start with basic concepts and the installation of Ansible in Enterprise Linux and Community Linux using the most command package manager and archives Each of the 40 lessons summarizes a specific scenario about files and directories management creating an empty file creating a text file assigning permission to users and groups renaming files and directory removing the files and directory or copying between local and remote and vice versa Another useful administrator tool is to assign permission to files or directories as needed Included extraction of a compressed zip file or tarball with the most common gzips and bzip2 UNIX formats Moreover that is a lesson about file download from a URL and verifying the genuinity with the checksum Are you ready to automate your day with Ansible Examples in the book are tested with the latest version of Ansible 2.9 and Ansible Core 2.11

[Ansible For Linux by Examples](#) Luca Berton, 2022-03-11 Ansible is an Open Source IT automation tool This book contains all of the obvious and not so obvious best practices of Ansible automation Every successful IT department needs automation nowadays for bare metal servers virtual machines could containers and edge computing Automate your IT journey with Ansible automation technology You are going to start with the installation of Ansible in Enterprise and Community Linux using the most command package manager and archives Each of the 200 lessons summarizes a module from the most important parameter to some Ansible code and real life usage Each code is battle proved in the real life Simplifying mundane activities like creating a text file extracting and archiving fetching a repository using HTTPS or SSH connections could be automated with some lines of code and these are only some of the long lists included in the course There are some Ansible codes usable in all the Linux systems some specific for RedHat like Debian like and Suse like The 20 Ansible troubleshooting lesson teaches you how to read the error message how to reproduce and the process of troubleshooting and resolution Are you ready to automate your day with Ansible Examples in the book are tested with the latest version of Ansible 2.9 and Ansible Core 2.11

Ansible For Amazon Web Services AWS By Examples Luca Berton, This course provides an introduction to

the Ansible language Ansible is a popular open source IT automation technology for scripting applications in a wide variety of domains It is free portable powerful and remarkably easy and fun to use This course is a tool to learn the Ansible automation technology with some real life examples Learn the Ansible automation technology with some real life examples Every successful IT department needs automation nowadays for bare metal servers virtual machines could containers and edge computing Automate your IT journey with Ansible automation technology I m going to teach you example by example how to accomplish the most common IT Professional tasks to automate your AWS Infrastructure Each of the lessons summarizes a specific use case for the Modern AWS Infrastructure Each lesson is focused on a module from the most important parameter with some live demo of code and real life usage Each code is battle proved in the real life Console interaction and verification are included in every video How to configure Ansible to interact with AWS infrastructure EC2 VPC security groups etc You could automate the creation update and gather information for EC2 machines and many more use cases using Ansible A mundane activity like creating an AWS EC2 machine is the most used with Ansible For AWS Each example is using the secure connection protocol to guarantee sensible data are encrypted and reserved Maintain your AWS infrastructure network the most efficiently as possible with Ansible Automation the simple human readable automation technology Are you ready to automate your day with Ansible Examples in the book are tested with the latest version of Ansible 2 9 and Ansible Core 2 11

Mastering Ansible - Third Edition James Freeman,Jesse Keating,2019 Design develop and solve real world automation and orchestration problems by unlocking the automation capabilities of Ansible Key Features Tackle complex automation challenges with the newly added features in Ansible 2 7 Book 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 learn Gain an in depth understanding of how Ansible works under the hood Fully automate Ansible playbook executions with encrypted data Access and manipulate variable data within playbooks Use blocks to perform failure recovery or cleanup Explore the Playbook debugger and the Ansible Console Troubleshoot unexpected behavior effectively Work with cloud infrastructure providers and container systems Develop custom modules plugins and dynamic inventory sources Who 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 Downloading the example code for this book You can download the example code files for all Packt books you have purchased from your account at <http://www.PacktPub.com> If you purchased this book elsewhere you can visit <http://www.PacktPub.com/support> and register to have the files e mailed directly to you Mastering Ansible James Freeman, Jesse Keating, 2019 Automation is essential for success in the modern DevOps world Ansible provides a simple yet powerful automation engine to tackle complex automation challenges This book provides you with the knowledge you need to understand how Ansible 2.7 works at a fundamental level and leverage its advanced capabilities

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