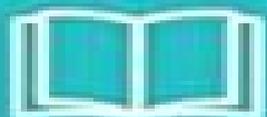Walter Bentley

OpenStack Administration with Ansible 2

Second Edition

Orchestrate and automate your OpenStack cloud operator tasks with Ansible 2.0

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OpenStack Administration with Ansible 2 - Second Edition Walter Bentley,2016-12-26 Orchestrate and automate your OpenStack cloud operator tasks with Ansible 2 0About This Book Automate real world OpenStack cloud operator administrative tasks Construct a collection of the latest automation code to save time on managing your OpenStack cloud Manage containers on your cloud and check the health of your cloud using NagiosWho This Book Is ForThis book is aimed at OpenStack based cloud operators and infrastructure and sys administrators who have some knowledge of OpenStack and are seeking to automate taxing and manual tasks This book is also for people new to automating cloud operations in general and the DevOps practice in particular What You Will Learn Efficiently execute OpenStack administrative tasks Familiarize yourself with how Ansible 2 works and assess the defined best practices Create Ansible 2 playbooks and roles Automate tasks to customize your OpenStack cloud Review OpenStack automation considerations when automating administrative tasks Examine and automate advanced OpenStack tasks and designated use cases Get a high level overview of OpenStack and current production ready projects Explore OpenStack CLI tools and learn how to use themIn DetailMost organizations are seeking methods to improve business agility because they have realized just having a cloud is not enough Being able to improve application deployments reduce infrastructure downtime and eliminate daily manual tasks can only be accomplished through some sort of automation We start with a brief overview of OpenStack and Ansible 2 and highlight some best practices Each chapter will provide an introduction to handling various Cloud Operator administration tasks such as managing containers within your cloud setting up utilizing open source packages for monitoring creating multiple users tenants taking instance snapshots and customizing your cloud to run multiple active regions Each chapter will also supply a step by step tutorial on how to automate these tasks with Ansible 2 Packed with real world OpenStack administrative tasks this book will walk you through working examples and explain how these tasks can be automated using one of the most popular open source automation tools on the market today Style and approachThis book is a concise fast paced guide filled with real world scenarios that will execute OpenStack administrative tasks efficiently It serves as a quick reference guide for not just OpenStack functions but also for creating future Ansible code   **OpenStack Administration with Ansible 2** Walter Bentley,2016-12-26 Orchestrate and automate your OpenStack cloud operator tasks with Ansible 2 0 About This Book Automate real world OpenStack cloud operator administrative tasks Construct a collection of the latest automation code to save time on managing your OpenStack cloud Manage containers on your cloud and check the health of your cloud using Nagios Who This Book Is For This book is aimed at OpenStack based cloud operators and infrastructure and sys administrators who have some knowledge of OpenStack and are seeking to automate taxing and manual tasks This book is also for people new to automating cloud operations in general and the DevOps practice in particular What You Will Learn Efficiently execute OpenStack administrative tasks Familiarize yourself with how Ansible 2 works and assess the defined best

practices Create Ansible 2 playbooks and roles Automate tasks to customize your OpenStack cloud Review OpenStack automation considerations when automating administrative tasks Examine and automate advanced OpenStack tasks and designated use cases Get a high level overview of OpenStack and current production ready projects Explore OpenStack CLI tools and learn how to use them In Detail Most organizations are seeking methods to improve business agility because they have realized just having a cloud is not enough Being able to improve application deployments reduce infrastructure downtime and eliminate daily manual tasks can only be accomplished through some sort of automation We start with a brief overview of OpenStack and Ansible 2 and highlight some best practices Each chapter will provide an introduction to handling various Cloud Operator administration tasks such as managing containers within your cloud setting up utilizing open source packages for monitoring creating multiple users tenants taking instance snapshots and customizing your cloud to run multiple active regions Each chapter will also supply a step by step tutorial on how to automate these tasks with Ansible 2 Packed with real world OpenStack administrative tasks this book will walk you through working examples and explain how these tasks can be automated using one of the most popular open source automation tools on the market today Style and approach This book is a concise fast paced guide filled with real world scenarios that will execute OpenStack administrative tasks efficiently It serves as a quick reference guide for not just OpenStack functions but also for creating future Ansible code   **OpenStack for Architects** Ben Silverman,Michael Solberg,2018-05-31 Implement successful private clouds with OpenStack Key Features Gain hands on experience in designing a private cloud for all infrastructures Create a robust virtual environment for your organization Design implement and deploy an OpenStack based cloud based on the Queens release Book Description Over the past six years hundreds of organizations have successfully implemented Infrastructure as a Service IaaS platforms based on OpenStack The huge amount of investment from these organizations including industry giants such as IBM and HP as well as open source leaders such as Red Hat Canonical and SUSE has led analysts to label OpenStack as the most important open source technology since the Linux operating system Due to its ambitious scope OpenStack is a complex and fast evolving open source project that requires a diverse skill set to design and implement it OpenStack for Architects leads you through the major decision points that you ll face while architecting an OpenStack private cloud for your organization This book will address the recent changes made in the latest OpenStack release i e Queens and will also deal with advanced concepts such as containerization NVF and security At each point the authors offer you advice based on the experience they ve gained from designing and leading successful OpenStack projects in a wide range of industries Each chapter also includes lab material that gives you a chance to install and configure the technologies used to build production quality OpenStack clouds Most importantly the book focuses on ensuring that your OpenStack project meets the needs of your organization which will guarantee a successful rollout What you will learn Learn the overall structure of an OpenStack deployment Craft an OpenStack deployment process which fits within your organization Apply Agile Development

methodologies to engineer and operate OpenStack clouds Build a product roadmap for Infrastructure as a Service based on OpenStack Make use of containers to increase the manageability and resiliency of applications running in and on OpenStack Use enterprise security guidelines for your OpenStack deployment Who this book is for OpenStack for Architects is for Cloud architects who are responsible to design and implement a private cloud with OpenStack System engineers and enterprise architects will also find this book useful Basic understanding of core OpenStack services as well as some working experience of concepts is recommended *Machine Intelligence and Smart Systems* Shikha Agrawal,Kamlesh Kumar Gupta,Jonathan H. Chan,Jitendra Agrawal,Manish Gupta,2021-04-08 This book is a collection of peer reviewed best selected research papers presented at the First International Conference on Machine Intelligence and Smart Systems 2020 MISS 2020 organized during September 24 25 2020 in Gwalior India The book presents new advances and research results in the fields of machine intelligence artificial intelligence and smart systems It includes main paradigms of machine intelligence algorithms namely 1 neural networks 2 evolutionary computation 3 swarm intelligence 4 fuzzy systems and 5 immunological computation

OpenStack Administration with Ansible Walter Bentley,2016-01-28 Design build and automate 10 real world OpenStack administrative tasks with Ansible About This Book Automate real world OpenStack cloud operator administrative tasks Construct a collection of automation code to save time on managing your OpenStack cloud Use this step by step tutorial to automate such tasks with Ansible Who This Book Is For If you are an OpenStack based cloud operator and or infrastructure administrator and are interested in automating administrative functions then this book is exactly what you are looking for Having a functioning OpenStack environment is helpful but most certainly not necessary What You Will Learn Efficiently execute OpenStack administrative tasks Familiarize yourself with how Ansible works and assess the defined best practices Create Ansible playbooks and roles Automate tasks to customize your OpenStack cloud Review OpenStack automation considerations when automating administrative tasks Examine and automate advanced OpenStack tasks and designated use cases Get a high level overview of OpenStack and the current production ready projects Deep dive into OpenStack CLI tools and find out how to use them In Detail Most organizations are seeking methods to improve business agility because they have realized just having a cloud is not enough Being able to improve application deployments reduce infrastructure downtime and eliminate daily manual tasks can only be accomplished through some sort of automation Packed with real world OpenStack administrative tasks this book will walk you through working examples and explain how these tasks can be automated using one of the most popular open source automation tools Ansible We will start with a brief overview of OpenStack and Ansible and highlight some best practices Each chapter will provide an introduction to handling various Cloud Operator administration tasks such as creating multiple users tenants setting up Multi Tenant Isolation customizing your clouds quotas taking instance snapshots evacuating compute hosts for maintenance and running cloud health checks and a step by step tutorial on how to automate these tasks with Ansible Style and approach This easy to follow

reference guide is packed with examples of real world OpenStack administration tasks each task is explained in detail and then subsequently turned into automation code *Learning Ansible 2 - Second Edition* Fabio Alessandro Locati,2016 Learn everything you need to manage and handle your systems with ease with Ansible 2 using this comprehensive guideAbout This Book Simplify the automation of applications and systems using the newest version of Ansible Get acquainted with fundamentals of Ansible such as playbooks modules and various testing strategies A comprehensive learning guide that provides you with great skills to automate your organization s infrastructure using Ansible 2Who This Book Is ForThe book is for sys admins who want to automate their organization s infrastructure using Ansible 2 No prior knowledge of Ansible is required What You Will Learn Set up Ansible 2 and an Ansible 2 project in a future proof way Perform basic operations with Ansible 2 such as creating copying moving changing and deleting files and creating and deleting users Deploy complete cloud environments using Ansible 2 on AWS and DigitalOcean Explore complex operations with Ansible 2 Ansible vault e mails and Nagios Develop and test Ansible playbooks Write a custom module and test itIn DetailAnsible is an open source automation platform that assists organizations with tasks such as configuration management application deployment orchestration and task automation With Ansible even complex tasks can be handled easier than before In this book you will learn about the fundamentals and practical aspects of Ansible 2 by diving deeply into topics such as installation Linux BSD and Windows Support playbooks modules various testing strategies provisioning deployment and orchestration In this book you will get accustomed with the new features of Ansible 2 such as cleaner architecture task blocks playbook parsing new execution strategy plugins and modules You will also learn how to integrate Ansible with cloud platforms such as AWS The book ends with the enterprise versions of Ansible Ansible Tower and Ansible Galaxy where you will learn to interact Ansible with different OSes to speed up your work to previously unseen levelsBy the end of the book you ll able to leverage the Ansible parameters to create expeditious tasks for your organization by implementing the Ansible 2 techniques and paradigms Style and approachThis book is a step by step learning guide on the all new Ansible 2 which is an ideal configuration management tool *Ansible* Lorin Hochstein,Rene Moser,2017 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 With this updated second edition you ll learn 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

Learning Ansible 2 Fabio Alessandro Locati,2016-11-21 Learn everything you need to manage and handle your systems with ease with Ansible 2 using this comprehensive guide About This Book Simplify the automation of applications and systems using the newest version of Ansible Get acquainted with fundamentals of Ansible such as playbooks modules and various testing strategies A comprehensive learning guide that provides you with great skills to automate your organization s infrastructure using Ansible 2 Who This Book Is For The book is for sys admins who want to automate their organization s

infrastructure using Ansible 2 No prior knowledge of Ansible is required What You Will Learn Set up Ansible 2 and an Ansible 2 project in a future proof way Perform basic operations with Ansible 2 such as creating copying moving changing and deleting files and creating and deleting users Deploy complete cloud environments using Ansible 2 on AWS and DigitalOcean Explore complex operations with Ansible 2 Ansible vault e mails and Nagios Develop and test Ansible playbooks Write a custom module and test it In Detail Ansible is an open source automation platform that assists organizations with tasks such as configuration management application deployment orchestration and task automation With Ansible even complex tasks can be handled easier than before In this book you will learn about the fundamentals and practical aspects of Ansible 2 by diving deeply into topics such as installation Linux BSD and Windows Support playbooks modules various testing strategies provisioning deployment and orchestration In this book you will get accustomed with the new features of Ansible 2 such as cleaner architecture task blocks playbook parsing new execution strategy plugins and modules You will also learn how to integrate Ansible with cloud platforms such as AWS The book ends with the enterprise versions of Ansible Ansible Tower and Ansible Galaxy where you will learn to interact Ansible with different OSes to speed up your work to previously unseen levels By the end of the book you ll able to leverage the Ansible parameters to create expeditious tasks for your organization by implementing the Ansible 2 techniques and paradigms Style and approach This book is a step by step learning guide on the all new Ansible 2 which is an ideal configuration management tool   Ansible 2 Cloud Automation Cookbook Aditya Patawari,Vikas Aggarwal,2018-02-28 Orchestrate your cloud infrastructure Key Features Recipe based approach to install and configure cloud resources using Ansible Covers various cloud related modules and their functionalities Includes deployment of a sample application to the cloud resources that we create Learn the best possible way to manage and automate your cloud infrastructure Book Description Ansible has a large collection of inbuilt modules to manage various cloud resources The book begins with the concepts needed to safeguard your credentials and explain how you interact with cloud providers to manage resources Each chapter begins with an introduction and prerequisites to use the right modules to manage a given cloud provider Learn about Amazon Web Services Google Cloud Microsoft Azure and other providers Each chapter shows you how to create basic computing resources which you can then use to deploy an application Finally you will be able to deploy a sample application to demonstrate various usage patterns and utilities of resources What you will learn Use Ansible Vault to protect secrets Understand how Ansible modules interact with cloud providers to manage resources Build cloud based resources for your application Create resources beyond simple virtual machines Write tasks that can be reused to create resources multiple times Work with self hosted clouds such as OpenStack and Docker Deploy a multi tier application on various cloud providers Who this book is for If you are a system administrator infrastructure engineer or a DevOps engineer who wants to obtain practical knowledge about Ansible and its cloud deliverables then this book is for you Recipes in this book are designed for people who would like to manage their cloud infrastructures efficiently using Ansible

which is regarded as one of the best tools for cloud management and automation **Learning Ansible 2.7** Fabio Alessandro Locati,2019-04-30 Use Ansible to configure your systems deploy software and orchestrate advanced IT tasks Key FeaturesGet familiar with the fundamentals of Ansible 2 7Understand how to use Ansible Tower to scale your IT automationGain 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 learnCreate 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 DigitalOceanWho 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 FeaturesUse Ansible 2 9 to automate and control your infrastructureDelve into advanced functionality such as plugins and custom modules in AnsibleAutomate and orchestrate major cloud platforms such as OpenStack AWS and Azure using AnsibleBook 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 learnBecome familiar with the fundamentals of the Ansible frameworkSet up role based variables and dependenciesAvoid common mistakes and pitfalls when writing automation code in AnsibleExtend Ansible by developing your own modules and pluginsContribute to the Ansible project by submitting your own codeFollow best practices for working with cloud environment inventoriesTroubleshoot issues triggered during Ansible playbook runsWho 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 **Mastering Ansible - Second Edition** Jesse Keating,2017-03-30 Master the ins and outs of advanced operations with AnsibleAbout This Book Learn how to extend Ansible with custom modules plugins and inventory sources Utilize advanced Ansible features to orchestrate rolling updates with little to no service disruptions An up to date book that brings to light the newly added features in Ansible 2 xWho This Book Is ForThis book is 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 Gain an in depth understanding of how Ansible works under the covers Fully automate the Ansible playbook executions with encrypted data Access and manipulate variable data within playbooks 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 Develop custom modules plugins and dynamic inventory sourcesIn DetailThis book provides you with the knowledge you need to understand how Ansible 2 1 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 By the end of the book the readers will be able to unlock the true power of the Ansible automation engine and will tackle complex real world actions with ease Style and approachThis clear practical guide illustrates the advanced functionalities of Ansible its system architecture and design aspects that will help you to master Ansible with ease **OpenStack Cloud Computing Cookbook** Kevin Jackson,Cody Bunch,Egle Sigler,James Denton,2018-01-29 The Fourth Edition of the industry acclaimed OpenStack Cloud Computing Cookbook from four recognized experts updated to the latest OpenStack build including Cinder Nova and Neutron Key Features Over 100 recipes created by a team of OpenStack experts Updated to work with the latest OpenStack builds with recipes covering the

installation and use of OpenStack with Ansible It covers topics such as Keystone Glance Neutron Nova Cinder and more plus recipes for OpenStack storage networking and orchestrating workloads Test drive OpenStack using the accompanying Vagrant environment Book Description This is the fourth edition of the industry acclaimed OpenStack Cloud Computing Cookbook created by four recognized OpenStack experts It has now been updated to work with the latest OpenStack builds using tools and processes based on their collective and vast OpenStack experience OpenStack Open Source Cloud software is one of the most used cloud infrastructures to support a wide variety of use cases from software development to big data analysis It is developed by a thriving community of individual developers from around the globe and backed by most of the leading players in the cloud space today We make it simple to implement massively scalable and able to store a large pool of data and networking resources OpenStack has a strong ecosystem that helps you provision your cloud storage needs Add OpenStack s enterprise features to reduce the cost of your business This book will begin by showing you the steps to build up an OpenStack private cloud environment using Ansible You ll then discover the uses of cloud services such as the identity service image service and compute service You ll dive into Neutron the OpenStack Networking service and get your hands dirty with configuring networks routers load balancers and more You ll then gather more expert knowledge on OpenStack cloud computing by managing your cloud s security and migration After that we delve into OpenStack Object storage and you ll see how to manage servers and work with objects cluster and storage functionalities Finally you will learn about OpenStack dashboard Ansible Keystone and other interesting topics What you will learn Understand install configure and manage a complete OpenStack Cloud platform using OpenStack Ansible Configure networks routers load balancers and more with Neutron Use Keystone to setup domains roles groups and user access Learn how to use Swift and setup container access control lists Gain hands on experience and familiarity with Horizon the OpenStack Dashboard user interface Automate complete solutions with our recipes on Heat the OpenStack Orchestration service as well as using Ansible to orchestrate application workloads Follow practical advice and examples to run OpenStack in production Who this book is for This book is written for cloud system engineers system administrators and technical architects who are moving from a virtualized environment to cloud environments This book assumes that you are familiar with cloud computing platforms and have knowledge of virtualization networking and managing Linux environments   Hands-On Linux Administration on Azure Kamesh Ganesan,Rithin Skaria,Frederik Vos,2020-02-20 Develop a solid understanding of cloud computing Linux virtual machine container virtualization and other fundamental concepts to create and manage your Linux workload in Azure Key FeaturesDeploy and manage virtual machines in the Azure environmentExplore open source tools to integrate automation and orchestrationImplement Linux features to create and manage containersBook Description Thanks to its flexibility in delivering scalable cloud solutions Microsoft Azure is a suitable platform for managing all your workloads You can use it to implement Linux virtual machines and containers and to create applications in open source languages with open APIs This

Linux administration book first takes you through the fundamentals of Linux and Azure to prepare you for the more advanced Linux features in later chapters With the help of real world examples you ll learn how to deploy virtual machines VMs in Azure expand their capabilities and manage them efficiently You will manage containers and use them to run applications reliably and in the concluding chapter you ll explore troubleshooting techniques using a variety of open source tools By the end of this book you ll be proficient in administering Linux on Azure and leveraging the tools required for deployment What you will learnGrasp the fundamentals of virtualization and cloud computingUnderstand file hierarchy and mount new filesystemsMaintain the life cycle of your application in Azure Kubernetes ServiceManage resources with the Azure CLI and PowerShellManage users groups and filesystem permissionsUse Azure Resource Manager to redeploy virtual machinesImplement configuration management to configure a VM correctlyBuild a container using DockerWho this book is for If you are a Linux administrator or a Microsoft professional looking to deploy and manage your workload in Azure this book is for you Although not necessary knowledge of Linux and Azure will assist with understanding core concepts

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 **Learn Ansible** Russ McKendrick,2018-06-28 Run Ansible playbooks to launch complex multi tier applications hosted in public clouds Key Features Build your learning curve using Ansible Automate cloud network and security infrastructures with ease Gain hands on exposure on Ansible Book Description Ansible has grown from a small open source orchestration tool to a full blown orchestration and configuration management tool owned by Red Hat Its powerful core modules cover a wide range of infrastructures including on premises systems and public clouds operating systems devices and services meaning it can be used to manage pretty much your entire end to end environment Trends and surveys say that Ansible is the first choice of tool among system administrators as it is so easy to use This end to end practical guide will take you on a learning curve from beginner to pro You ll start by installing and configuring the Ansible to perform various automation tasks Then we ll dive deep into the various facets of infrastructure such as cloud compute and network infrastructure along with security By the end of this book you ll have an end to end understanding of Ansible and how you can apply it to your own environments What you will learn Write your own playbooks to configure servers running CentOS Ubuntu and Windows Identify repeatable tasks and write playbooks to automate them Define a highly available public cloud infrastructure in code making it easy to distribute your infrastructure configuration Deploy and configure Ansible Tower and Ansible AWX Learn to use community contributed roles Use Ansible in your day to day role and projects Who this book is for Learn Ansible is perfect for system administrators and developers who want to take their current workflows and transform them into repeatable playbooks using Ansible No prior knowledge of Ansible is required 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   Practical Ansible 2 Daniel Oh,James Freeman,Fabio Locati,2020 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   *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 **Practical Ansible - Second Edition** JAMES. LOCATI FREEMAN (FABIO ALESSANDRO. OH, DANIEL.),Fabio Alessandro Locati,Daniel Oh,2023-09-29 In Practical Ansible you ll work with the latest release of Ansible and learn to solve complex issues quickly with the help of task oriented scenarios

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