

Epub free Ansible up and running automating configuration management and deployment the easy way [PDF]

Ansible Ansible: Up and Running The Reference
Guide to Data Center Automation Learning Chef
Implementing Configuration Management
Mastering Ansible Learning Puppet 4 Pulling
Strings with Puppet Mastering Ansible
Mastering C++ Network Automation Software
Configuration Management Handbook Software
Configuration Management The Shortcut Guide to
Automating Network Management and Compliancee
Ansible Automation Platform Mastering Ansible
Implementing Configuration Management
Configuration Management with Bcfg2 Software
Configuration Management Software
Configuration Management IBM Tivoli Change and
Configuration Management Database (CCMDB)
V7.2.1 Implementation Guide Ansible for DevOps
Puppet: Mastering Infrastructure Automation
End-to-End Automation with Kubernetes and
Crossplane Pro PowerShell Desired State
Configuration Learning CFEngine 3 Mastering
System Center Configuration Manager 2007 R2
Software Configuration Management Handbook, Criminal
Third Edition Software Configuration classes

Management Plans Network Automation Made Easy
Evolution Control for Software Product Lines:
An Automation Layer Over Configuration
Management Ansible Playbook Essentials The
CMDB Imperative Practical CM Chef
Infrastructure Automation Cookbook Enterprise
Software Configuration Management Solutions
for Distributed and System Z A System
Engineer's Guide to Host Configuration and
Maintenance Using Cfengine CONFIGURATION
MANAGEMENT Mastering Python Network Automation
Continuous Delivery Ansible

Ansible 2017

among the many configuration management tools available ansible has some distinct advantages it s minimal in nature you don t need to install agents on your nodes and there s an easy learning curve with this updated third edition you ll quickly learn how to be productive with ansible whether you re a developer deploying code or a system administrator looking for a better automation solution authors bas meijer lorin hochstein and rene moser show 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 learn how ansible has all the functionality you need and the simplicity you desire explore ansible configuration management and deployment manage linux windows and network devices learn how to apply ansible best practices understand how to use the new collections format create custom modules and plug ins generate reusable ansible content for open source middleware build container images images for cloud instances and cloud infrastructure automate ci cd development environments learn how to use ansible automation platform for devops

Ansible: Up and Running 2022-07-12

get a hands on introduction to the chef the configuration management tool for solving

operations issues in enterprises large and small ideal for developers and sysadmins new to configuration management this guide shows you to automate the packaging and delivery of applications in your infrastructure you ll be able to build or rebuild your infrastructure s application stack in minutes or hours rather than days or weeks after teaching you how to write ruby based chef code this book walks you through different chef tools and configuration management concepts in each chapter using detailed examples throughout all you need to get started is command line experience and familiarity with basic system administration configure your chef development environment and start writing recipes create chef cookbooks with recipes for each part of your infrastructure use test kitchen to manage sandbox testing environments manage single nodes with chef client and multiple nodes with chef server use data bags for storing shared global data between nodes simulate production chef server environments with chef zero classify different types of services in your infrastructure with roles model life stages of your application including development testing staging and production

The Reference Guide to Data Center Automation 2006

explains configuration management an engineering discipline and process for maintaining the integrity of hardware software and firmware products as they evolve through

the development and production stages for implementers in both commercial and government environments outlines the four basic tasks identification change control status accounting and audits

Learning Chef 2014-11-06

mastering ansible a comprehensive guide to automating configuration management and deployment is an in depth guide to ansible a popular open source tool for automating infrastructure as code the book covers everything from the basics of ansible to advanced topics such as modules plugins roles and dynamic inventory it provides detailed guidance on how to write efficient modular and reusable playbooks and how to use ansible to automate a wide range of tasks from provisioning servers to deploying applications the book also includes best practices tips and tricks for working effectively with ansible as well as use cases and real world examples whether you re a beginner or an experienced user mastering ansible will help you become a master of ansible and take your automation skills to the next level

Implementing Configuration Management 1996

if you re a system administrator developer or site reliability engineer responsible for handling hundreds or even thousands of nodes in your network the puppet configuration

management tool will make your job a whole lot easier this practical guide shows you what puppet does how it works and how it can provide significant value to your organization through hands on tutorials devops engineer jo rnett demonstrates how puppet manages complex and distributed components to ensure service availability you ll learn how to secure configuration consistency across servers clients your router and even that computer in your pocket by setting up your own testing environment learn exactly what puppet is why it was created and what problems it solves tailor puppet to your infrastructure with a design that meets your specific needs write declarative puppet policies to produce consistency in your systems build test and publish your own puppet modules manage network devices such as routers and switches with puppet device and integrated puppet agents scale puppet servers for high availability and performance explore web dashboards and orchestration tools that supplement and complement puppet

Mastering Ansible 2023-03-09

competent system administrators know their success hinges upon being able to perform often tedious tasks with rigor and punctuality such metrics are often achieved only by instituting a considerable degree of automation something that has become even more crucial as it environments continue to scale both in terms of size and complexity one of the most powerful system administration tools

to be released is puppet a solution capable of automating nearly every aspect of a system administrator s job from user management to software installation to even configuring server services such as ftp and ldap pulling strings with puppet configuration management made easy is the first book to introduce the powerful puppet system administration tool author james turnbull will guide you through puppet s key features showing you how to install and configure the software create automated puppet tasks known as recipes and even create reporting solutions and extend puppet further to your own needs a bonus chapter is included covering the facter library which makes it a breeze to automate the retrieval of server configuration details such as ip and mac addresses

Learning Puppet 4 2016-03-24

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 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 ansible 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

Pulling Strings with Puppet

2008-09-02

50 sample automation programs across configuration management container orchestration kubernetes and cloud networking this book is an in depth guide for network administrators cloud architects and container and kubernetes administrators who want to learn how to automate networking tasks in c from setting up a network automation environment to automating configuration management and working with containers and container orchestration tools such as kubernetes the book covers a wide range of topics the first section of the book covers the fundamentals of automation scripting and testing readers will learn how to create successful automation scripts and test them to ensure they perform properly the next section describes how to set up a network automation environment this includes configuring network devices servers and other components required for automation the readers will learn about the various protocols as well as how to use ansible to automate the configuration management of these devices it covers containerization and container orchestration systems such as docker and kubernetes readers will learn how to use tools such as docker compose and kubernetes to automate workload management and deployment the final section of the book focuses on cloud networking the readers will learn how to handle network resources in cloud systems such as aws google

cloud and azure readers get to work with tools and services available for cloud networking automation best practices and how to use them in their regular cloud networking operations key learnings setting up gns3 eclipse ide cpp netlib boost openssl and zlib libraries configure the ports hosts and servers using c scripting writing testing and validating network automation scripts in both test and production environment building docker images running containers and managing container deployments using ansible for server provisioning automated system identification and managing auto updates automating container scheduling service discovery and load balancing setting up kubernetes cluster nginx ingress implementing service mesh and automating firewall configuration working with aws azure and google cloud networking services for cloud automation table of content c basics for networks c advanced for networks preparing network automation setup script test and validate network automation automating configuration management working with docker and containers container orchestration and workload automation kubernetes automation administering aws networking administering google cloud networking administering azure networking audience this is a fantastic desk reference for network administrators cloud architects devops engineers and automation engineers wishing to automate networking tasks with c it is a must have book for anyone who wants to keep ahead of the curve in the field of networking automation

Mastering Ansible 2019-03-25

this completely revised edition of an artech house bestseller goes far beyond other scm books as the only complete guide that integrates scm principles advanced topics and implementation procedures in one easy access resource the second edition has been greatly expanded with new chapters on documentation control product data management scm standards and software process improvement models like cmm cmmi bootstrap iso spice and trillium moreover it explores the latest advances in scm tools tool selection and implementation level of automation needed scm organization implementation operation and maintenance of the scm system in addition to the traditional software development models this edition discusses the role of scm in new software development methodologies such as xp adaptive software development asd and the dynamic systems development method dsdm

Mastering C++ Network Automation 2023-03-13

designed for software product developers provides comprehensive coverage of the theory practice and techniques of good software configuration management and a structured approach to implementing these practices on large software development projects as such it serves as a step by step guide for project managers who need to plan implement and control the process associated with data

control features include a chapter on software configuration management and automation including software tools the teaching of procedures for identifying the code documents and data to be controlled as the product definition and a systematic approach to maximizing reuse of software and implementing change control a glossary plus an appendix on procedures forms and forms control complete this work

Software Configuration Management Handbook 2005

ansible is a profoundly simple it automation motor that computerizes cloud provisioning configuration management application organization intra service coordination and many other it needs designed for multi level arrangements since day one ansible models your it foundation by describing how all of your systems inter relate rather than just managing one framework at a time it utilizes no specialists and no additional custom security framework so it s easy to deploy and most importantly it uses a very simple language yaml in the form of ansible playbooks that permit you to describe your automation jobs in a way that approaches plain english

Software Configuration Management 1992

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 yml 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 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

The Shortcut Guide to Automating Network Management and Compliance 2006

the configuration management environment
configuration management planning
configuration identification hardware
identification software identification
firmware identification identification of
drawings and others documents configuration
control configuration control of hardware
configuration control of software
configuration control documentation
configuration status accounting the
configuration management facility

configuration audits

Ansible Automation Platform **2021-04-23**

configuration is the medium in which system administrators work ranging from the most sweeping decisions to minor troubleshooting of software problems the act of helping people use computers necessitates a stream of decisions that result in the configuration and software infrastructures that each of us uses on a daily basis configuration management is a process whereby administrator interactions with configuration are streamlined and simplified as the scale of infrastructures grows and the complexity of software systems increases the cost of system administration rises rapidly automation techniques such as configuration management can reduce these costs by streamlining common tasks automation also implements rigorous processes automated processes are usually performed more consistently than manual ones the authors intention is to enable you to understand the basics of configuration management and how to use bcfg2 to achieve common configuration goals with this booklet you will be able both to design appropriate configuration processes and policies for your site and to analyze configuration processes to assess their effectiveness

Mastering Ansible 2021-12-09

an effective systems development and design process is far easier to explain than it is to implement a framework is needed that organizes the life cycle activities that form the process this framework is configuration management cm software configuration management discusses the framework from a standards viewpoint using the original

Implementing Configuration Management 1996

the ibm tivoli change and configuration management database ccmdb is one of the key components of the ibm service management ism strategy it is the foundation for automating and supporting change and configuration management processes as described by the information technology infrastructure library itil these process solutions provide best practice implementations of processes based not only on itil but on the ibm process reference model for ittm and other standards as well this ibm redbooks publication provides information that can be used by clients partners or ibm field personnel who are looking to engage in an effort to implement change and configuration management processes in an enterprise environment utilizing the ibm tivoli change and configuration management database ccmdb v 7 2 1 product it covers the new features available with ccmdb v7 2 and ccmdb v7 2 1 as well as details about the

underlying components of the product and utilizing the product to support robust it processes such as change and configuration management it also focuses on the details of the data model process engine and the change and configuration management process management programs pmps this book provides a reference for it specialists and it architects working with the ccmdb v7 2 1 product

Configuration Management with Bcfg2 2008

ansible is a simple but powerful server and configuration management tool learn to use ansible effectively whether you manage one server or thousands

Software Configuration Management 2004-02-24

start pulling the strings of your it infrastructure effectively with puppet learn how to configure customize and manage your systems more intelligently in an enterprise deployment about this book step by step instructions to jump start your puppet deployment and automate your it configurations design implement and deploy puppet in your infrastructure and tackle everyday it infrastructure challenges gain expert understanding of puppet s latest and most advanced features who this book is for if you re an experienced it professional and a new

puppet user this course will provide you with all you need to know to go from installation to advanced automation what you will learn write and employ individual puppet manifests understand how puppet implements system abstraction use puppet to manage network cloud and virtualization devices manage and test the puppet code workflow tweak hack and adapt the puppet extension points use exported resources to orchestrate change between machines debug a puppetserver using java techniques in detail puppet is a configuration management tool that allows you to automate all your it configurations giving you control it was written for and by system administrators to manage large numbers of systems efficiently and prevent configuration drifts puppet gives you control of what you do to each node when you do it and how you do it this learning path will take you from the basics of puppet to extending it and then mastering it we will start off with a primer on puppet its installation and get a sneak peek under its hood we will then move on to designing and deploying your puppet architecture learning best practices for writing reusable and maintainable code and executing testing and deploying puppet across your systems finally we will deal with problems of scale and exceptions in your code automate workflows and support multiple developers working simultaneously this course is based on the following books puppet 4 essentials second edition extending puppet second edition mastering puppet second edition style and approach this learning path follows a

practical approach starting from the basic commands to advanced aspects through a series of examples you will learn the most important skills essential to manage your it infrastructure effectively

Software Configuration Management 1992

a complete journey to automating infrastructure provisioning and cloud native application deployment key features leverage crossplane and kubernetes for a unified automation experience of infrastructure and apps build a modern self service infrastructure platform abstracting recipes and in house policies clear guidance on trade offs to manage kubernetes configuration and ecosystem tools book description in the last few years countless organizations have taken advantage of the disruptive application deployment operating model provided by kubernetes with crossplane the same benefits are coming to the world of infrastructure provisioning and management the limitations of infrastructure as code with respect to drift management role based access control team collaboration and weak contract make people move towards a control plane based infrastructure automation but setting it up requires a lot of know how and effort this book will cover a detailed journey to building a control plane based infrastructure automation platform with kubernetes and crossplane the cloud native landscape has an

overwhelming list of configuration management tools that can make it difficult to analyze and choose this book will guide cloud native practitioners to select the right tools for kubernetes configuration management that best suit the use case you ll learn about configuration management with hands on modules built on popular configuration management tools such as helm kustomize argo and kubevela the hands on examples will be patterns that one can directly use in their work by the end of this book you ll be well versed with building a modern infrastructure automation platform to unify application and infrastructure automation what you will learn understand the context of kubernetes based infrastructure automation get to grips with crossplane concepts with the help of practical examples extend crossplane to build a modern infrastructure automation platform use the right configuration management tools in the kubernetes environment explore patterns to unify application and infrastructure automation discover top engineering practices for infrastructure platform as a product who this book is for this book is for cloud architects platform engineers infrastructure or application operators and kubernetes enthusiasts who want to simplify infrastructure and application automation a basic understanding of kubernetes and its building blocks like pod deployment service and namespace is needed before you can get started with this book

IBM Tivoli Change and Configuration Management Database (CCMDB) V7.2.1 Implementation Guide 2010-12-13

use windows powershell desired state configuration dsc to configure your infrastructure on premises and in the cloud in an environment where changes and deployments are happening all the time dsc makes the necessary adjustments to the system so you don't have to pro powershell desired state configuration shows you how powershell desired state configuration dsc is a powerful configuration management platform that makes it easier than ever to perform configuration management of your infrastructure whether on premises or in the cloud with pro powershell desired state configuration ravikanth chaganti revises and significantly expands his previous edition bringing you a complete in depth reference for applying this evolving technology in your day to day work what's new in this edition get up to date in depth guidance on dsc in the data center understand the central role that dsc plays in devops today integrate dsc into build and release management tools learn to think and act like a developer when automating your configuration management creating a testable robust process that you can use again and again find out why and how dsc has an important role to play in public and private cloud deployments apply dsc

in the cloud with microsoft azure or amazon services or google cloud platform who this book is for it administrators developers and devops engineers working in windows based data center environments with a little prior powershell scripting experience this book can be used as an in depth reference to creating customizing and extending dsc in windows it administrators with limited scripting experience will also find this book a useful overview of what dsc offers and how to use dsc resources to automate configuration management and deployment

Ansible for DevOps 2020-08-05

get up to speed on cfengine 3 the open source configuration management software that enables you to automate everything from one server shops to enterprise computer networks this hands on introduction shows you how to use cfengine 3 to implement and manage and your it infrastructure in a sustainable scalable and efficient manner through numerous examples you ll learn how to use cfengine to perform tasks such as user management software installation and security you ll also learn how to focus on higher level issues of design implementation and maintenance knowing that cfengine is handling the lower level details for you automatically discover how far you can go with system automation using cfengine become familiar with the software s principles components and policy structure configure cfengine step by step to perform routine tasks on your system specify custom machine

configuration without making changes by hand
get tricks and patterns that you can use in
your own cfengine policies maintain separate
cfengine environments for development testing
production or other uses

Puppet: Mastering Infrastructure Automation 2017-06-13

mastering system center configuration manager
2007 provides intermediate and advanced
coverage of all aspects of the product
including planning and installation upgrading
systems management server 2003 deploying
software and operating systems security
monitoring and troubleshooting and automating
and customizing sccm 2007 with scripts the
authors take a hands on approach by providing
many real world scenarios to show readers how
to use the tool in various contexts this
anchors the conceptual explanations in
practical application this book s web site
will contain a collection of ready to use
scripts with directions for implementing them
in network systems

End-to-End Automation with Kubernetes and Crossplane 2022-08-12

software configuration management scm is one
of the scientific tools that is aimed to bring

control to the software development process this new resource is a complete guide to implementing operating and maintaining a successful scm system for software development project managers system designers and software developers are presented with not only the basics of scm but also the different phases in the software development lifecycle and how scm plays a role in each phase the factors that should be considered and the pitfalls that should be avoided while designing the scm system and scm plan are also discussed in addition this third edition is updated to include cloud computing and on demand systems this book does not rely on one specific tool or standard for explaining the scm concepts and techniques in fact it gives readers enough information about scm the mechanics of scm and scm implementation so that they can successfully implement a scm system

Pro PowerShell Desired State Configuration 2018-04-25

practical strategies and techniques for automating network infrastructure as networks grow ever more complex network professionals are seeking to automate processes for configuration management testing deployment and operation using automation they aim to lower expenses improve productivity reduce human error shorten time to market and improve agility in this guide expert practitioner ivo pinto presents all the concepts and techniques you ll need to move your entire physical and

virtual infrastructure towards greater automation and maximize the value it delivers writing for experienced professionals the author reviews today s leading use cases for automation compares leading tools and presents a deep dive into using the open source ansible engine to automate common tasks you ll find everything you need from practical code snippets to real world case studies to a complete methodology for planning strategy this guide is for everyone seeking to improve network operations and productivity including system network storage and virtualization administrators network and security engineers and many other technical professionals and managers you can apply its vendor neutral concepts throughout your entire environment from servers to the cloud switches to security explore modern use cases for network automation and compare today s most widely used automation tools capture essential data for use in network automation using standard formats such as json xml and yaml get more value from the data your network can provide install ansible and master its building blocks including plays tasks modules variables conditionals loops and roles perform common networking tasks with ansible playbooks manage files devices vms cloud constructs apis and more see how ansible can be used to automate even the largest global network architectures discover how netdevops can transform your approach to automation and create a new netdevops pipeline step by step build a network automation strategy from the ground up reflecting lessons from the world s largest

enterprises

Learning CFEngine 3 2012-03-21

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 coordinated 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 System Center Configuration Manager 2007 R2 2011-01-07

implement configuration management databases that deliver rapid roi and sustained business value implementing an enterprise wide configuration management database cmdb is one of the most influential actions an it organization can take to improve service delivery and bridge the gap between technology and the business with a well designed cmdb in place companies are better positioned to manage and optimize it infrastructure applications and services automate more it management tasks and restrain burgeoning costs now there s an objective vendor independent guide to making a cmdb work in your organization the cmdb imperative presents a start to finish implementation methodology that works and describes how the cmdb is shifting to the superior configuration management system cms expert cmdb industry analyst glenn o donnell and leading edge architect and practitioner carlos casanova first review the drivers behind a cmdb and the technical economic cultural and political obstacles to success drawing on the experiences of hundreds of organizations they present indispensable guidance on architecting and customizing cmdb solutions to your specific environment they ll guide you through planning implementation transitioning into production day to day operation and maintenance and much more coverage includes

defining the tasks and activities associated with configuration management understanding the cmdb s role in itil and the relationship between cmdbs and itil v3 s cms building software models that accurately represent each entity in your it environment ensuring information accuracy via change management and automated discovery understanding the state of the cmdb market and selling the cmdb within your organization creating federated cmdb architectures that successfully balance autonomy with centralized control planning a deployment strategy that sets appropriate priorities and reflects a realistic view of your organization s maturity integrating systems and leveraging established and emerging standards previewing the future of the cmdb cms and how it will be impacted by key trends such as virtualization soa mobility convergence and flexi sourcing

Software Configuration

Management Handbook, Third

Edition 2015-02-01

practical cm best configuration management practices for the 21st century includes money saving cm control methodologies and provides comprehensive and user friendly guidelines for the transition from paper based cm systems to electronic product data management pdm systems practical cm covers both hardware and software cm best practices and describes the process for planning implementing and integrating pdm systems into existing business processes to

put these cm best practices to their most effective use also included are templates and sample plans and forms with many ideas for tailoring them to the overall cm process common traps and pitfalls to be avoided in the cm process are also described beginning with a clear examination of the conventional classical cm process in a manufacturing environment david d lyon then proceeds to describe the step by step implementation of the new cm process using well adapted software tools such as pdm the complete planning implementation and integration process for a pdm system is also clearly laid out in a series of templates through the use of specific procedures and guidelines the book clearly maps out the steps to implement a fully automated cm environment in a cost effective manner a practical how to book for professionals provides cm best practices processes procedures methodologies guidelines and lessons learned provides a generic methodology that can be utilized to plan implement and integrate pdm systems within businesses of all sizes

Software Configuration Management Plans 1992

chef infrastructure automation cookbook contains practical recipes on everything you will need to automate your infrastructure using chef the book is packed with illustrated code examples to automate your server and cloud infrastructure the book first shows you

the simplest way to achieve a certain task then it explains every step in detail so that you can build your knowledge about how things work eventually the book shows you additional things to consider for each approach that way you can learn step by step and build profound knowledge on how to go about your configuration management automation this book is for system engineers and administrators who have a fundamental understanding of information management systems and infrastructure it helps if you ve already played around with chef however the book covers all the important topics you will need to know if you don t want to dig through a whole book before you can get started this book is for you as it features a set of independent recipes you can try out immediately

Network Automation Made Easy

2021-11-04

optimize your development process with precision using this comprehensive mcq mastery guide on configuration management tailored for software engineers developers and project managers this resource offers a curated selection of practice questions covering key concepts techniques and best practices in configuration management delve deep into version control change management and release processes while enhancing your problem solving skills whether you re preparing for exams or seeking to reinforce your practical knowledge

this guide equips you with the tools needed to excel master configuration management and streamline your development workflows with confidence using this indispensable resource

Evolution Control for Software Product Lines: An Automation Layer Over Configuration Management 2014-05-16

numerous sample programs examples demonstrating the application of python tools to streamline network automation with mastering python network automation you can streamline container orchestration configuration management and resilient networking with python and its libraries allowing you to emerge as a skilled network engineer or a strong devops professional from the ground up this guide walks readers through setting up a network automation lab using the ns3 network simulator and python programming this includes the installation of ns3 as well as python libraries like nornir paramiko netmiko and pyez as well as the configuration of ports hosts and servers this book will teach you the skills to become a proficient automation developer who can test and fix any bugs in automation scripts this book examines the emergence of the service mesh as a solution to the problems associated with service to service communication over time this book walks you through automating various container related tasks in python and its

libraries including container orchestration service discovery load balancing container storage management container performance monitoring and rolling updates calico and istio are two well known service mesh tools and you ll find out how to set them up and configure them to manage traffic routing security and monitoring additional topics covered in this book include the automation of network policies the routing of workloads and the collection and tracking of metrics logs and traces you ll also pick up some tips and tricks for collecting and visualizing istio metrics with the help of tools like grafana key learnings use of istio for cluster traffic management traffic routing and service mesh implementation utilizing cilium and calico to solve pod networking and automate network policy and workload routing monitoring and managing kubernetes clusters with etcd and haproxy load balancers and container storage establishing network automation lab with tools like ns3 emulator python virtual environment and vs code establishing connectivity between hosts port connectivity ssh connectivity python libraries ns3 and network encryption table of content python essentials for networks file handling and modules in python preparing network automation lab configuring libraries and lab components code test validate network automation automation of configuration management managing docker and container networks orchestrating container workloads pod networking implementing service mesh audience mastering python network automation is an essential guide for network

engineers devops professionals and developers who want to streamline container orchestration and resilient networking with the help of terraform calico and istio knowing python and the basics of networking is sufficient to pursue this book

Ansible Playbook Essentials **2015-08-05**

winner of the 2011 jolt excellence award getting software released to users is often a painful risky and time consuming process this groundbreaking new book sets out the principles and technical practices that enable rapid incremental delivery of high quality valuable new functionality to users through automation of the build deployment and testing process and improved collaboration between developers testers and operations delivery teams can get changes released in a matter of hours sometimes even minutes no matter what the size of a project or the complexity of its code base jez humble and david farley begin by presenting the foundations of a rapid reliable low risk delivery process next they introduce the deployment pipeline an automated process for managing all changes from check in to release finally they discuss the ecosystem needed to support continuous delivery from infrastructure data and configuration management to governance the authors introduce state of the art techniques including automated infrastructure management and data migration and the use of virtualization for

each they review key issues identify best practices and demonstrate how to mitigate risks coverage includes automating all facets of building integrating testing and deploying software implementing deployment pipelines at team and organizational levels improving collaboration between developers testers and operations developing features incrementally on large and distributed teams implementing an effective configuration management strategy automating acceptance testing from analysis to implementation testing capacity and other non functional requirements implementing continuous deployment and zero downtime releases managing infrastructure data components and dependencies navigating risk management compliance and auditing whether you re a developer systems administrator tester or manager this book will help your organization move from idea to release faster than ever so you can deliver value to your business rapidly and reliably

The CMDB Imperative 2009-02-19

annotation 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

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