Kubernetes With Terraform Ansible And Openshift On

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If you have the output from the terraform apply command, the public IP addresses were outputted at the bottom or run terraform output. macbook:terraform_aws_spot_instance brad$ terraform output master_ip = 54.218.113.71 worker_ips = [54.190.7.158, 34.211.12.22] Change the ip addresses to the public IP address of your hosts.

Getting started with kubernetes using Ansible and Terraform

I wrote an article about VMware Harbor deployment with Terraform, Ansible and GitLab CI in my previous post.I thought to publish a writeup about building a Kubernetes cluster on AWS using Terraform, Ansible and GitlLab CI. This is a cluster with a Master and three worker nodes running on the AWS cloud platform.

Building A Kubernetes Cluster on AWS With Terraform ...

into your Terraform resource module, then apply changes of your infrastructure via terraform apply. Here Ansible part started! Secondly and more interesting case is to ensure ProviderIDlabel for...

VSphere CSI in Kubernetes using Ansible and Terraform ...

All Kubernetes and etcd components run as services directly in the VM (not in Containers). Automation Tools. I used the pair Terraform and Ansible for many reasons: Terraform declarative approach works very well in describing and *provisioning infrastructure resources, while it is very limited when you have to install and configure;

Kubernetes from scratch to AWS with Terraform and Ansible ...

Terraform also can provision the servers it creates in a number of ways, and I found this provisioner for Ansible that can automatically execute an Ansible playbook with each server. I also use a provisioner to run the Docker command required by Rancher so that the node can join the Kubernetes cluster.

From zero to Kubernetes in Hetzner Cloud with Terraform ...

This template certainly looks a little confusing, but what is happening is that Terraform is taking the information for the created Kubernetes masters and nodes and outputting the hostnames and IP addresses into the Ansible inventory format at a local path of ./kargo/inventory/inventory.

Deploy Kubernetes w/ Ansible & Terraform – Spencer's Blog

Kubernetes from scratch to AWS with Terraform and Ansible (part 3) This post is the last of a series of three tutorial articles introducing a sample, tutorial project, demonstrating how to provision Kubernetes on AWS from scratch, using Terraform and Ansible. To understand the goal of the project, you'd better start from the first part.

Kubernetes from scratch to AWS with Terraform and Ansible ...

Ansible should be installed in your machine. Refer to the Ansible installation guide for platform specific installation. Setup overview. We will be setting up a Kubernetes cluster that will consist of one master and two worker nodes. All the nodes will run Ubuntu Xenial 64-bit OS and Ansible playbooks will be used for provisioning.

Kubernetes Setup Using Ansible and Vagrant | Kubernetes

Both backward and forward compatibility with Kubernetes API is mostly defined by the official K8S Go library (prior to 1.1 release) and client Go library which we ship with Terraform. Below are versions of the library bundled with given versions of Terraform. Terraform <= 0.9.6 (prior to provider split) - Kubernetes 1.5.4

Docs overview | hashicorp/kubernetes | Terraform Registry

DevOps Engineer - Terraform, Kubernetes, Ansible SonicWall Inc. Bengaluru, Karnataka, India 4 days ago Be among the first 25 applicants. Apply on company website Save. Save job. Save this job with your existing LinkedIn profile, or create a new one. Your job seeking activity is only visible to you.

DevOps Engineer - Terraform, Kubernetes, Ansible

Sometimes, there confusion between Terraform and Kubernetes and what they actually do. The truth is that they are not alternatives and actually work effectively together. Kubernetes is an open source container orchestration system that lets developers schedule deployments onto nodes in a compute cluster and actively manages containerized workloads to ensure that their state matches the users' intentions.

What is Terraform? | IBM

?????Terraform?Ansible?Packer?Docker?Kubernetes ????????????????????????? DevOps ???? ????????????????????

5 ? DevOps ????????? – ??

Contrary to both Ansible and Terraform, Juju is an application modelling tool, developed and maintained by Canonical. You can use it to model and automate deployments of even very complex environments consisting of various interconnected applications. Examples of such environments include OpenStack, Kubernetes or Ceph clusters. Apart from the ...

Ansible vs Terraform vs Juju: Competition or cooperation ...

Setting up Kubernetes cluster on Azure using Kubeadm, Terraform & Ansible- Part 2. ... Joining worker nodes with Kubernetes master node. To check the status of the cluster, use the following ...

Setting up Kubernetes cluster on Azure using Kubeadm ...

The Ansible vs Terraform battle continues to escalate with every passing day as the DevOps movement gains momentum. These two names are prominent in the DevOps landscape now, and you can hear them frequently from time to time. Each tool is known for its distinct advantages in creating infrastructure as code (IAC).

Ansible vs Terraform: Understanding the Differences ...

Kubernetes not the hardest way (or "Provisioning a Kubernetes Cluster on AWS using Terraform and Ansible") A worked example to provision a Kubernetes cluster on AWS from scratch, using Terraform and Ansible. A scripted version of the famous tutorial Kubernetes the hard way.

GitHub - nicusX/k8s-terraform-ansible-sample: Provisioning ...

200+ Videos. 20+ Hours. 6 DevOps Tools - Docker, Kubernetes, Azure Devops, Jenkins, Terraform, and Ansible. 3 Different Clouds - AWS, Azure and Google Cloud. Do you need more reasons for enrolling for this amazing course on DevOps? Do you have ZERO experience with DevOps with Docker, Kubernetes ...

Docker, Kubernetes, Terraform and Azure Devops - GitHub

Kubernetes and Terraform are both open source tools. It seems that Kubernetes with 55K GitHub stars and 19.1K forks on GitHub has more adoption than Terraform with 17.7K GitHub stars and 4.83K GitHub forks.

Simplify your DevOps roles with DevOps tools and techniques Key Features Learn to utilize business resources effectively to increase productivity and collaboration Leverage the ultimate open source DevOps tools to achieve continuous integration and continuous delivery (CI/CD) Ensure faster time-to-market by reducing overall lead time and deployment downtime Book Description The implementation of DevOps processes requires the efficient use of various tools, and the choice of these tools is crucial for the sustainability of projects and collaboration between development (Dev) and operations (Ops). This book presents the different patterns and tools that you can use to provision and configure an infrastructure in the cloud. You'll begin by understanding DevOps culture, the application of DevOps in cloud infrastructure, provisioning with Terraform, configuration with Ansible, and image building with Packer. You'll then be taken through source code versioning with Git and the construction of a DevOps CI/CD pipeline using Jenkins, GitLab CI, and Azure Pipelines. This DevOps handbook will also guide you in containerizing and deploying your applications with Docker and Kubernetes. You'll learn how to reduce deployment downtime with blue-green deployment and the feature flags technique, and study DevOps practices for open source projects. Finally, you'll grasp some best practices for reducing the overall application lead time to ensure faster time to market. By the end of this book, you'll have built a solid foundation in DevOps, and developed the skills necessary to enhance a traditional software delivery process using modern software delivery tools and techniques What you will learn Become well versed with DevOps culture and its practices Use Terraform and Packer for cloud infrastructure provisioning Implement Ansible for infrastructure configuration Use basic Git commands and understand the Git flow process Build a DevOps pipeline with Jenkins, Azure Pipelines, and GitLab CI Containerize your applications with Docker and Kubernetes Check application quality with SonarQube and Postman Protect DevOps processes and applications using DevSecOps tools Who this book is for If you are a developer or a system administrator interested in understanding continuous integration, continuous delivery, and containerization with DevOps tools and techniques, this book is for you.

Design, build, and operate scalable and reliable Kubernetes infrastructure for production Key Features Implement industry best practices to build and manage production-grade Kubernetes infrastructure Learn how to architect scalable Kubernetes clusters, harden container security, and fine-tune resource management Understand, manage, and operate complex business workloads confidently Book Description Although out-of-the-box solutions can help you to get a cluster up and running quickly, running a Kubernetes cluster that is optimized for production workloads is a challenge, especially for users with basic or intermediate knowledge. With detailed coverage of cloud industry standards and best practices for achieving scalability, availability, operational excellence, and cost optimization, this Kubernetes book is a blueprint for managing applications and services in production. You'll discover the most common way to deploy and operate Kubernetes clusters, which is to use a public cloud-managed service from AWS, Azure, or Google Cloud Platform (GCP). This book explores Amazon Elastic Kubernetes Service (Amazon EKS), the AWS-managed version of Kubernetes, for working through practical exercises. As you get to grips with implementation details specific to AWS and EKS, you'll understand the design concepts, implementation best practices, and configuration applicable to other cloud-managed services. Throughout the book, you'll also discover standard and cloud-agnostic tools, such as Terraform and Ansible, for provisioning and configuring infrastructure. By the end of this book, you'll be able to leverage Kubernetes to operate and manage your production environments confidently. What you will learn Explore different infrastructure architectures for Kubernetes deployment Implement optimal open source and commercial storage management solutions Apply best practices for provisioning and configuring Kubernetes clusters, including infrastructure as code (IaC) and configuration as code (CAC) Configure the cluster networking plugin and core networking components to get the best out of them Secure your Kubernetes environment using the latest tools and best practices Deploy core observability stacks, such as monitoring and logging, to fine-tune your infrastructure Who this book is for This book is for cloud infrastructure experts, DevOps engineers, site reliability engineers, and engineering managers looking to design and operate Kubernetes infrastructure for production. Basic knowledge of Kubernetes, Terraform, Ansible, Linux, and AWS is needed to get the most out of this book.

Deploy a SharePoint farm in a repeatable, predictable, and reliable fashion using Infrastructure as Code (IaC) techniques to automate provisioning. Savvy IT pros will learn how to use DevOps practices and open source tools to greatly reduce costs, and streamline management operations for SharePoint farms deployed via Amazon Web Services (AWS), Azure, or on premise. DevOps for SharePoint will help you navigate the complex challenges of deploying and managing SharePoint Server farms. You will learn how to reduce time-consuming tasks and errors when generating development, testing, or production environments. And you will benefit from learning proven methods to apply Microsoft updates with minimal downtime and productivity loss. Whether you are a SharePoint architect, IT pro, or developer helping customers with the SharePoint platform, this book will teach you the most useful DevOps practices to tackle those issues and broaden your skill set. What You'll Learn Understand the basics of the most popular open source tools—Vagrant, Packer, Terraform, and Ansible—and how to use them in the context of deploying and scaling a SharePoint farm Use Vagrant to build SharePoint development environments in less than an hour, and add automated testing Use Packer to create a "golden image" with preconfigured settings, and then use it as the base image in your Terraform configuration for both AWS and Azure farms Use Terraform to scale your SharePoint farm topology Use Red Hat's Ansible Playbooks to perform configuration management on your farm Use Terraform to deploy immutable infrastructure environments using IaC (Infrastructure as Code) Use InSpec 2.0 to stay in compliance by testing your cloud infrastructure Use Ansible to apply Microsoft updates and patches Who This Book Is For IT pros and developers who are looking to expand their knowledge and take a modern approach by using open source technologies to work with Microsoft products. Experience installing SharePoint, and a basic understanding of either Azure or AWS, is helpful.

This book is a guide for how to use Ansible in the AWS (Amazon Web Services). The AWS is becoming a popular form of cloud computing in which most businesses, organizations and individuals keep huge amounts of their sensitive data. With Ansible, we can automate most of the tasks such organizations do on the AWS. The first part of the book explains how to create an immutable infrastructure in the AWS using Ansible. It will guide you on all the necessary steps, starting from setup of the AWS account to creation of an inventory. The book also guides you on how to provision and auto scale your AWS infrastructure with Ansible. With this, it will be easy for you or the organization to upload huge amounts of data and have the infrastructure scale to accommodate the data. Please note that with auto scaling, Ansible will do much of the management automatically on the organization's behalf, so there will be little or no effort involved for the organization itself. This results in ease of management and the simplification of tasks. A Dynamic Inventory is also of great significance in AWS. This book explains how to create a Dynamic Inventory using both AWS and Ansible. Ansible and Terraform can also be used to manage Kubernetes on AWS. This book guides you on how to do this. The following topics are discussed in this book: - Creating an Immutable Infrastructure - Provision and Autoscaling your Infrastructure with Ansible - Dynamic Inventory with AWS and Ansible - Ansible and Terraform for Kubernetes to AWS

Deploy a SharePoint farm in a repeatable, predictable, and reliable fashion using Infrastructure as Code (IaC) techniques to automate provisioning. Savvy IT pros will learn how to use DevOps practices and open source tools to greatly reduce costs, and streamline management operations for SharePoint farms deployed via Amazon Web Services (AWS), Azure, or on premise. DevOps for SharePoint will help you navigate the complex challenges of deploying and managing SharePoint Server farms. You will learn how to reduce time-consuming tasks and errors when generating development, testing, or production environments. And you will benefit from learning proven methods to apply Microsoft updates with minimal downtime and productivity loss. Whether you are a SharePoint architect, IT pro, or developer helping customers with the SharePoint platform, this book will teach you the most useful DevOps practices to tackle those issues and broaden your skill set. What You'll Learn Understand the basics of the most popular open source tools—Vagrant, Packer, Terraform, and Ansible—and how to use them in the context of deploying and scaling a SharePoint farm Use Vagrant to build SharePoint development environments in less than an hour, and add automated testing Use Packer to create a "golden image" with preconfigured settings, and then use it as the base image in your Terraform configuration for both AWS and Azure farms Use Terraform to scale your SharePoint farm topology Use Red Hat's Ansible Playbooks to perform configuration management on your farm Use Terraform to deploy immutable infrastructure environments using IaC (Infrastructure as Code) Use InSpec 2.0 to stay in compliance by testing your cloud infrastructure Use Ansible to apply Microsoft updates and patches Who This Book Is For IT pros and developers who are looking to expand their knowledge and take a modern approach by using open source technologies to work with Microsoft products. Experience installing SharePoint, and a basic understanding of either Azure or AWS, is helpful.

Terraform has become a key player in the DevOps world for defining, launching, and managing infrastructure as code (IaC) across a variety of cloud and virtualization platforms, including AWS, Google Cloud, Azure, and more. This hands-on second edition, expanded and thoroughly updated for Terraform version 0.12 and beyond, shows you the fastest way to get up and running. Gruntwork cofounder Yevgeniy (Jim) Brikman walks you through code examples that demonstrate Terraform's simple, declarative programming language for deploying and managing infrastructure with a few commands. Veteran sysadmins, DevOps engineers, and novice developers will quickly go from Terraform basics to running a full stack that can support a massive amount of traffic and a large team of developers. Explore changes from Terraform 0.9 through 0.12, including backends, workspaces, and first-class expressions Learn how to write production-grade Terraform modules Dive into manual and automated testing for Terraform code Compare Terraform to Chef, Puppet, Ansible, CloudFormation, and Salt Stack Deploy server clusters, load balancers, and databases Use Terraform to manage the state of your infrastructure Create reusable infrastructure with Terraform modules Use advanced Terraform syntax to achieve zero-downtime deployment

Ansible is a simple, but powerful, server and configuration management tool. Learn to use Ansible effectively, whether you manage one server--or thousands.

Build, Manage and Improve your infrastructure effortlessly. About This Book An up-to-date and comprehensive resource on Terraform that lets you quickly and efficiently launch your infrastructure Learn how to implement your infrastructure as code and make secure, effective changes to your infrastructure Learn to build multi-cloud fault-tolerant systems and simplify the management and orchestration of even the largest scale and most complex cloud infrastructures Who This Book Is For This book is for developers and operators who already have some exposure to working with infrastructure but want to improve their workflow and introduce infrastructure as a code practice. Knowledge of essential Amazon Web Services components (EC2, VPC, IAM) would help contextualize the examples provided. Basic understanding of Jenkins and Shell scripts will be helpful for the chapters on the production usage of Terraform. What You Will Learn Understand what Infrastructure as Code (IaC) means and why it matters Install, configure, and deploy Terraform Take full control of your infrastructure in the form of code Manage complete infrastructure, starting with a single server and scaling beyond any limits Discover a great set of production-ready practices to manage infrastructure Set up CI/CD pipelines to test and deliver Terraform stacks Construct templates to simplify more complex provisioning tasks In Detail Terraform is a tool used to efficiently build, configure, and improve the production infrastructure. It can manage the existing infrastructure as well as create custom in-house solutions. This book shows you when and how to implement infrastructure as a code practices with Terraform. It covers everything necessary to set up the complete management of infrastructure with Terraform, starting with the basics of using providers and resources. It is a comprehensive guide that begins with very small infrastructure templates and takes you all the way to managing complex systems, all using concrete examples that evolve over the course of the book. The book ends with the complete workflow of managing a production infrastructure as code—this is achieved with the help of version control and continuous integration. The readers will also learn how to combine multiple providers in a single template and manage different code bases with many complex modules. It focuses on how to set up continuous integration for the infrastructure code. The readers will be able to use Terraform to build, change, and combine infrastructure safely and efficiently. Style and approach This book will help and guide you to implement Terraform in your infrastructure. The readers will start by working on very small infrastructure templates and then slowly move on to manage complex systems, all by using concrete examples that will evolve during the course of the book.

Build and deploy scalable cloud applications using Windows containers and Kubernetes Key Features Run, deploy, and orchestrate containers on the Windows platform with this Kubernetes book Use Microsoft SQL Server 2019 as a data store to deploy Kubernetes applications written in .NET Framework Set up a Kubernetes development environment and deploy clusters with Windows Server 2019 nodes Book Description With the adoption of Windows containers in Kubernetes, you can now fully leverage the flexibility and robustness of the Kubernetes container orchestration system in the Windows ecosystem. This support will enable you to create new Windows applications and migrate existing ones to the cloud-native stack with the same ease as for Linux-oriented cloud applications. This practical guide takes you through the key concepts involved in packaging Windows-distributed applications into containers and orchestrating these using Kubernetes. You'll also understand the current limitations of Windows support in Kubernetes. As you advance, you'll gain hands-on experience deploying a fully functional hybrid Linux/Windows Kubernetes cluster for development, and explore production scenarios in on-premises and cloud environments, such as Microsoft Azure Kubernetes Service. By the end of this book, you'll be well-versed with containerization, microservices architecture, and the critical considerations for running Kubernetes in production environments successfully. What you will learn Understand containerization as a packaging format for applications Create a development environment for Kubernetes on Windows Grasp the key architectural concepts in Kubernetes Discover the current limitations of Kubernetes on the Windows platform Provision and interact with a Kubernetes cluster from a Windows machine Create hybrid Windows Kubernetes clusters in on-premises and cloud environments Who this book is for This book is for software developers, system administrators, DevOps engineers, and architects working with Kubernetes on Windows, Windows Server 2019, and Windows containers. Knowledge of Kubernetes as well as the Linux environment will help you get the most out of this book.

Terraform in Action shows you how to automate and scale infrastructure programmatically using the Terraform toolkit. Summary In Terraform in Action you will learn: Cloud architecture with Terraform Terraform module sharing and the private module registry Terraform security in a multitenant environment Strategies for performing blue/green deployments Refactoring for code maintenance and reusability Running Terraform at scale Creating your own Terraform provider Using Terraform as a continuous development/continuous delivery platform Terraform in Action introduces the infrastructure-as-code (IaC) model that lets you instantaneously create new components and respond efficiently to changes in demand. You'll use the Terraform automation tool to design and manage servers that can be provisioned, shared, changed, tested, and deployed with a single command. Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications. About the technology Provision, deploy, scale, and clone your entire stack to the cloud at the touch of a button. In Terraform, you create a collection of simple declarative scripts that define and manage application infrastructure. This powerful infrastructure-as-code approach automates key tasks like versioning and testing for everything from low-level networking to cloud services. About the book Terraform in Action shows you how to automate and scale infrastructure programmatically using the Terraform toolkit. Using practical, relevant examples, you'll use Terraform to provision a Kubernetes cluster, deploy a multiplayer game, and configure other hands-on projects. As you progress to advanced techniques like zero-downtime deployments, you'll discover how to think in Terraform rather than just copying and pasting scripts. What's inside Cloud architecture with Terraform Terraform module sharing and the private module registry Terraform security in a multitenant environment Strategies for performing blue/green deployments About the reader For readers experienced with a major cloud platform such as AWS. Examples in JavaScript and Golang. About the author Scott Winkler is a DevOps engineer and a distinguished Terraform expert. He has spoken multiple times at HashiTalks and HashiConf, and was selected as a HashiCorp Ambassador and Core Contributor in 2020. Table of Contents PART 1 TERRAFORM BOOTCAMP 1 Getting started with Terraform 2 Life cycle of a Terraform resource 3 Functional programming 4 Deploying a multi-tiered web application in AWS PART 2 TERRAFORM IN THE WILD 5 Serverless made easy 6 Terraform with friends 7 CI/CD pipelines as code 8 A multi-cloud MMORPG PART 3 MASTERING TERRAFORM 9 Zero-downtime deployments 10 Testing and refactoring 11 Extending Terraform by writing a custom provider 12 Automating Terraform 13 Security and secrets management