

## Cloud Foundry The Cloud Native Platform

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### ~~What is Cloud Native?~~

~~Cloud Native Architectures - Cornelia Davis~~~~Cloud Foundry Explained~~ ~~What is Cloud Native? | Cloud Native Vs Traditional Application - What is the difference?~~ ~~Cloud Native 101 Video~~ ~~Traditional vs Cloud Native Applications~~ ~~Come learn about Cloud Foundry, the open source, cloud native platform~~ ~~Cloud Native-Application Development with Cloud Foundry on Oracle Cloud~~ ~~Deploying Microservice Architectures with Cloud Foundry~~ **Cloud Foundry Pictures Presents an Animated Journey through the Cloud Native Galaxy** ~~Building Cloud Native Applications with Cloud Foundry and Spring~~ ~~OpenShift? Rancher? Cloud Foundry? - PaaS frameworks from a public cloud providers point of view~~

### ~~What is Kubernetes~~

~~Mastering Chaos - A Netflix Guide to Microservices~~~~Building cloud native applications with Kubernetes and Istio, by Kelsey Hightower~~ ~~Kubernetes for Beginners~~ ~~Docker Introduction in 15 Minutes~~ ~~Containers and VMs - A Practical Comparison~~ ~~Kubernetes in 5 mins~~ ~~What is OpenShift? Public Cloud vs Private Cloud vs Hybrid Cloud~~ ~~Cloud Migration Strategy for AWS \u0026 Azure: 6 Common Techniques~~ ~~Kubernetes vs. Docker: It's Not an Either/Or Question~~ ~~Keynote: Cloud Native at AWS~~ ~~Adrian Cockcroft, Amazon Web Services~~ ~~Cloud Foundry vs Docker vs Kubernetes~~ ~~GOTO 2019 • In Search of the Perfect Cloud Native Developer Experience • Daniel Bryant~~ ~~Cloud Native Infrastructure~~ ~~What is the difference between cloud and cloud native?~~ ~~Building a Cloud Native Application from Scratch (Cloud Next '19)~~ ~~Cloud Native Batch Processing~~ ~~Decoding Cloud Foundry: Cloud Native~~ **Cloud Foundry The Cloud Native**

Easily deliver and manage service offerings running on Cloud Native platforms such as Cloud Foundry or Kubernetes. Paketo Buildpacks provide language runtime support for applications. They leverage the Cloud Native Buildpacks framework to make image builds easy, performant, and secure.

### **Cloud Foundry - Open Source Cloud Native Application Delivery**

This free, hands-on training workshop is an introduction to cloud-native software architecture, as well as the Cloud Foundry platform and its components, distributions,?? and what it means to be Cloud Foundry certified. Expect to spend about 20-30 hours with this course to be successful.

### **Introduction to Cloud Foundry and Cloud Native Software ...**

The Foundry is a web-based marketplace for those just getting started, or who want to expand their use of the platform. If you're seeking a technology solution, learning opportunities, or help with the transition to cloud native development - you can find what you need in The Foundry. Learn how to get your company listed in The Foundry.

### **The Foundry | Cloud Foundry**

The Cloud-Native Platform Cloud Foundry is a platform for running applications, tasks, and services. Its purpose is to change the way applications, tasks, and services are deployed and run by significantly reducing the develop-to-deployment cycle time.

### **1. The Cloud-Native Platform - Cloud Foundry: The ...**

This O'Reilly report explains the capabilities of cloud-native platforms and examines the fundamental changes enterprises need to make in process, organization, and culture if they're to take real advantage of this approach. Author Duncan Winn focuses on the open source platform Cloud Foundry, one of the more prominent cloud-native providers.

### **Cloud Foundry : The Cloud-Native Platform by Duncan C. E ...**

Author Duncan Winn focuses on the open source platform Cloud Foundry, one of the more prominent Cloud-Native providers. You'll learn how Cloud-Native applications are designed to be "infrastructure unaware" so they can thrive and move at will in the highly distributed and constantly evolving cloud environment.

### **VMware Tanzu | Cloud Foundry: The Cloud Native Platform**

Push your code to production at lightning speed with Cloud Foundry Maximize your productivity and unlock the complexity of Kubernetes with the simplicity, control and speed of Cloud Foundry, the modern model for cloud native application delivery. Use Cloud Foundry to write code in any language, with any framework, on any Kubernetes cluster.

### **Why Cloud Foundry - Cloud Native Application Delivery ...**

Global Cloud Foundry end users tell their success stories with our cloud native technologies. Read all of the user stories and share your own here. Across industries from financial services to insurance to

government and more, Cloud Foundry users share the many ways they implement Cloud Foundry.

### **Cloud Foundry User Stories | Cloud Native Technology ...**

Cloud native is about unlocking the potential of our organizations and the cloud by striving for high levels of confidence. Confidence allows us to build the right thing QUICKLY. However, it is not a free lunch.

### **Cloud Native Evolution - Cloud Foundry**

Built with the flexibility and modularity of Kubernetes and the simplicity and efficiency of Cloud Foundry. A Collaborative Approach to Cloud Foundry for Kubernetes The Cloud Foundry community has spent the last few years evolving the Cloud Foundry architecture to include Kubernetes and other cloud native open source projects.

### **Kubernetes and Cloud Foundry Technology | Cloud Foundry**

Author Duncan Winn focuses on the open source platform Cloud Foundry, one of the more prominent cloud-native providers. You'll learn how cloud-native applications are designed to be "infrastructure unaware" so they can thrive and move at will in the highly distributed and constantly evolving cloud environment. With this report, you'll explore:

### **Amazon.com: Cloud Foundry: The Cloud-Native Platform ...**

Cloud Foundry focuses on bringing a world-class, cloud-native developer experience to its users. In Cloud Foundry, the application is the unit of currency. The platform frees developers to focus on application code only, handing off the complexity of building, managing, and running containerized workloads to Cloud Foundry.

### **What is Cloud Foundry? - What is Cloud Foundry?**

A set of free Cloud Foundry and cloud-native technology tutorials maintained by the Cloud Foundry Foundation. What is Cloud Foundry? A quick overview of what Cloud Foundry is, what it is not, and why Cloud Foundry matters for software organizations. Start tutorial »...

### **Tutorials by Cloud Foundry**

Cloud Foundry Certified Developer (CFCD) is a professional cloud native developer certification. It's the best way for developers to demonstrate cloud skills and expertise, and helps developers set themselves apart in a competitive job market.

### **Tutorials & Certification - Get Started Here | Cloud Foundry**

Author Duncan Winn focuses on the open source platform Cloud Foundry, one of the more prominent cloud-native providers. You'll learn how cloud-native applications are designed to be "infrastructure unaware" so they can thrive and move at will in the highly distributed and constantly evolving cloud environment. With this report, you'll explore:

### **Cloud Foundry : The Cloud-Native Platform (Paperback ...**

Pivotal Cloud Foundry is a high-level abstraction of cloud-native application development. You give PCF an application, and the platform does the rest. It does everything from understanding application dependencies to container building and scaling and wiring up networking and routing.

### **Pivotal Cloud Foundry vs Kubernetes: Choosing The Right ...**

Terrific primer on cloud foundry - the business value and a high level overview of requirements, advantages and implications. Appreciated the focus on 'why' and 'how' of the technology versus a deep dive into the feature functionality (I hear part II is the deep dive?).

### **Amazon.com: Customer reviews: Cloud Foundry: The Cloud ...**

SAN FRANCISCO, April 21, 2020 /PRNewswire/ -- Cloud Foundry Foundation, in collaboration with VMware, today announced the launch of Paketo Buildpacks, Cloud Native Buildpack-compliant for the most...

What exactly is a cloud-native platform? It's certainly a hot topic in IT, as enterprises today assess this option for developing and delivering software quickly and repeatedly. This O'Reilly report explains the capabilities of cloud-native platforms and examines the fundamental changes enterprises need to make in process, organization, and culture if they're to take real advantage of this approach. Author Duncan Winn focuses on the open source platform Cloud Foundry, one of the more prominent cloud-native providers. You'll learn how cloud-native applications are designed to be "infrastructure unaware" so they can thrive and move at will in the highly distributed and constantly evolving cloud environment. With this report, you'll explore: Technical driving forces that are rapidly changing the way organizations develop and deliver software today How key concepts underpinning the Cloud Foundry platform leverage each of the technical forces discussed How cloud-native platforms remove the requirement to perform undifferentiated heavy lifting, such as provisioning VMs, middleware, and databases Why cloud-native platforms enable fast feedback loops as you move from agile development to agile deployment Recommended changes and practical considerations for organizations that want to build cloud-native applications

How can Cloud Foundry help you develop and deploy business-critical applications and tasks with

velocity? This practical guide demonstrates how this open source, cloud-native application platform not only significantly reduces the develop-to-deploy cycle time, but also raises the value line for application operators by changing the way applications and supporting services are deployed and run. Learn how Cloud Foundry can help you improve your product velocity by handling many of essential tasks required to run applications in production. Author Duncan Winn shows DevOps and operations teams how to configure and run Cloud Foundry at scale. You'll examine Cloud Foundry's technical concepts—including how various platform components interrelate—and learn how to choose your underlying infrastructure, define the networking architecture, and establish resiliency requirements. This book covers: Cloud-native concepts that make the app build, test, deploy, and scale faster How to deploy Cloud Foundry and the BOSH release engineering toolchain Concepts and components of Cloud Foundry's runtime architecture Cloud Foundry's routing mechanisms and capabilities The platform's approach to container tooling and orchestration BOSH concepts, deployments, components, and commands Basic tools and techniques for debugging the platform Recent and soon-to-emerge features of Cloud Foundry

What separates the traditional enterprise from the likes of Amazon, Netflix, and Etsy? Those companies have refined the art of cloud native development to maintain their competitive edge and stay well ahead of the competition. This practical guide shows Java/JVM developers how to build better software, faster, using Spring Boot, Spring Cloud, and Cloud Foundry. Many organizations have already waded into cloud computing, test-driven development, microservices, and continuous integration and delivery. Authors Josh Long and Kenny Bastani fully immerse you in the tools and methodologies that will help you transform your legacy application into one that is genuinely cloud native. In four sections, this book takes you through: The Basics: learn the motivations behind cloud native thinking; configure and test a Spring Boot application; and move your legacy application to the cloud Web Services: build HTTP and RESTful services with Spring; route requests in your distributed system; and build edge services closer to the data Data Integration: manage your data with Spring Data, and integrate distributed services with Spring's support for event-driven, messaging-centric architectures Production: make your system observable; use service brokers to connect stateful services; and understand the big ideas behind continuous delivery

Deploy and scale applications on Cloud Foundry About This Book Gain hands-on experience using Cloud Foundry Implement deployment, management and scaling of applications on Cloud Foundry Learn best practices and troubleshooting tips for running applications on Cloud Foundry Who This Book Is For This book is aimed at developers, engineers and architects who want to learn key aspects of developing and running applications on the Cloud Foundry Platform. Prior knowledge Cloud Foundry is not necessary. What You Will Learn Understand Cloud Foundry (CF) tools and concepts. Understand the breadth of possibilities unleashed through a lightweight agile approach to building and deploying applications. Design and deploy cloud native applications that run well on Cloud Foundry. Learn Microservice design concepts and worker applications. Customize service brokers to publish your services in the Cloud Foundry marketplace. Using, managing and creating buildpacks for the Cloud Foundry Platform. Troubleshoot applications on Cloud Foundry Perform zero-downtime deployments using blue/green routes, A/B testing, and painless rollbacks to earlier versions of the application. In Detail Cloud Foundry is the open source platform to deploy, run, and scale applications. Cloud Foundry is growing rapidly and a leading product that provides PaaS (Platform as a Service) capabilities to enterprise, government, and organizations around the globe. Giants like Dell Technologies, GE, IBM, HP and the US government are using Cloud Foundry innovate faster in a rapidly changing world. Cloud Foundry is a developer's dream. Enabling them to create modern applications that can leverage the latest thinking, techniques and capabilities of the cloud, including: DevOps Application Virtualization Infrastructure agnosticism Orchestrated containers Automation Zero downtime upgrades A/B deployment Quickly scaling applications out or in This book takes readers on a journey where they will first learn the Cloud Foundry basics, including how to deploy and scale a simple application in seconds. Readers will build their knowledge of how to create highly scalable and resilient cloud-native applications and microservices running on Cloud Foundry. Readers will learn how to integrate their application with services provided by Cloud Foundry and with those external to Cloud Foundry. Readers will learn how to structure their Cloud Foundry environment with orgs and spaces. After that, we'll discuss aspects of continuous integration/continuous delivery (CI/CD), monitoring and logging. Readers will also learn how to enable health checks, troubleshoot and debug applications. By the end of this book, readers will have hands-on experience in performing various deployment and scaling tasks. Additionally, they will have an understanding of what it takes to migrate and develop applications for Cloud Foundry. Style and Approach A practitioner's guide to Cloud Foundry that covers the areas of application development, deployment and services.

How can Cloud Foundry help you develop and deploy business-critical applications and tasks with velocity? This practical guide demonstrates how this open source, cloud-native application platform not only significantly reduces the develop-to-deploy cycle time, but also raises the value line for application operators by changing the way applications and supporting services are deployed and run. Learn how Cloud Foundry can help you improve your product velocity by handling many of essential tasks required to run applications in production. Author Duncan Winn shows DevOps and operations teams how to configure and run Cloud Foundry at scale. You'll examine Cloud Foundry's technical concepts—including how various platform components interrelate—and learn how to choose your underlying infrastructure, define the networking architecture, and establish resiliency requirements. This book covers: Cloud-native concepts that make the app build, test, deploy, and scale faster How to deploy Cloud Foundry and the BOSH release engineering toolchain Concepts and components of Cloud Foundry's runtime architecture Cloud Foundry's routing mechanisms and capabilities The platform's approach to container tooling and orchestration BOSH concepts, deployments, components, and commands Basic tools and techniques for

debugging the platform Recent and soon-to-emerge features of Cloud Foundry

Highly available microservice-based web apps for Cloud with Java Key Features Take advantage of the simplicity of Spring to build a full-fledged application Let your applications run faster while generating smaller cloud service bills Integrate your application with various tools such as Docker and Elasticsearch and use specific tools in Azure and AWS Book Description Businesses today are evolving so rapidly that they are resorting to the elasticity of the cloud to provide a platform to build and deploy their highly scalable applications. This means developers now are faced with the challenge of building build applications that are native to the cloud. For this, they need to be aware of the environment, tools, and resources they're coding against. If you're a Java developer who wants to build secure, resilient, robust, and scalable applications that are targeted for cloud-based deployment, this is the book for you. It will be your one stop guide to building cloud-native applications in Java Spring that are hosted in On-prem or cloud providers - AWS and Azure The book begins by explaining the driving factors for cloud adoption and shows you how cloud deployment is different from regular application deployment on a standard data centre. You will learn about design patterns specific to applications running in the cloud and find out how you can build a microservice in Java Spring using REST APIs You will then take a deep dive into the lifecycle of building, testing, and deploying applications with maximum automation to reduce the deployment cycle time. Gradually, you will move on to configuring the AWS and Azure platforms and working with their APIs to deploy your application. Finally, you'll take a look at API design concerns and their best practices. You'll also learn how to migrate an existing monolithic application into distributed cloud native applications. By the end, you will understand how to build and monitor a scalable, resilient, and robust cloud native application that is always available and fault tolerant. What you will learn See the benefits of the cloud environment when it comes to variability, provisioning, and tooling support Understand the architecture patterns and considerations when developing on the cloud Find out how to perform cloud-native techniques/patterns for request routing, RESTful service creation, Event Sourcing, and more Create Docker containers for microservices and set up continuous integration using Jenkins Monitor and troubleshoot an application deployed in the cloud environment Explore tools such as Docker and Kubernetes for containerization and the ELK stack for log aggregation and visualization Use AWS and Azure specific tools to design, develop, deploy, and manage applications Migrate from monolithic architectures to a cloud native deployment Who this book is for Java developers who want to build secure, resilient, robust and scalable applications that are targeted for cloud based deployment, will find this book helpful. Some knowledge of Java, Spring, web programming and public cloud providers (AWS, Azure) should be sufficient to get you through the book.

Summary Cloud Native Patterns is your guide to developing strong applications that thrive in the dynamic, distributed, virtual world of the cloud. This book presents a mental model for cloud-native applications, along with the patterns, practices, and tooling that set them apart. Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications. About the Technology Cloud platforms promise the holy grail: near-zero downtime, infinite scalability, short feedback cycles, fault-tolerance, and cost control. But how do you get there? By applying cloudnative designs, developers can build resilient, easily adaptable, web-scale distributed applications that handle massive user traffic and data loads. Learn these fundamental patterns and practices, and you'll be ready to thrive in the dynamic, distributed, virtual world of the cloud. About the Book With 25 years of experience under her belt, Cornelia Davis teaches you the practices and patterns that set cloud-native applications apart. With realistic examples and expert advice for working with apps, data, services, routing, and more, she shows you how to design and build software that functions beautifully on modern cloud platforms. As you read, you will start to appreciate that cloud-native computing is more about the how and why rather than the where. What's inside The lifecycle of cloud-native apps Cloud-scale configuration management Zero downtime upgrades, versioned services, and parallel deploys Service discovery and dynamic routing Managing interactions between services, including retries and circuit breakers About the Reader Requires basic software design skills and an ability to read Java or a similar language. About the Author Cornelia Davis is Vice President of Technology at Pivotal Software. A teacher at heart, she's spent the last 25 years making good software and great software developers. Table of Contents PART 1 - THE CLOUD-NATIVE CONTEXT You keep using that word: Defining "cloud-native" Running cloud-native applications in production The platform for cloud-native software PART 2 - CLOUD-NATIVE PATTERNS Event-driven microservices: It's not just request/response App redundancy: Scale-out and statelessness Application configuration: Not just environment variables The application lifecycle: Accounting for constant change Accessing apps: Services, routing, and service discovery Interaction redundancy: Retries and other control loops Fronting services: Circuit breakers and API gateways Troubleshooting: Finding the needle in the haystack Cloud-native data: Breaking the data monolith

The Complete Guide to Building Cloud-Based Services Cloud Native Go shows developers how to build massive cloud applications that meet the insatiable demands of today's customers, and will dynamically scale to handle virtually any volume of data, traffic, or users. Kevin Hoffman and Dan Nemeth describe the modern cloud-native application in detail, illuminating factors, disciplines, and habits associated with rapid, reliable cloud-native development. They also introduce Go, a "simply elegant" high-performance language that is especially well-suited for cloud development. You'll walk through creating microservices in Go, adding front-end web components using ReactJS and Flux, and mastering advanced Go-based cloud-native techniques. Hoffman and Nemeth show how to build a continuous delivery pipeline with tools like Wercker, Docker, and Dockerhub; automatically push apps to leading platforms; and systematically monitor app performance in production. Learn "The Way of the Cloud": why developing good cloud software is fundamentally about mindset and discipline Discover why Go is ideal for cloud-native microservices development Plan cloud apps that support continuous delivery and deployment Design service

ecosystems, and then build them in a test-first manner Push work-in-progress to a cloud Use Event Sourcing and CQRS patterns to react and respond to enormous volume and throughput Secure cloud-based web applications: do's, don'ts, and options Create reactive applications in the cloud with third-party messaging providers Build massive-scale, cloud-friendly GUIs with React and Flux Monitor dynamic scaling, failover, and fault tolerance in the cloud

Enter the fast-paced world of SAP HANA 2.0 with this introductory guide. Begin with an exploration of the technological backbone of SAP HANA as a database and platform. Then, step into key SAP HANA user roles and discover core capabilities for administration, application development, advanced analytics, security, data integration, and more. No matter how SAP HANA 2.0 fits into your business, this book is your starting point. In this book, you'll learn about: a. Technology Discover what makes an in-memory database platform. Learn about SAP HANA's journey from version 1.0 to 2.0, take a tour of your technology options, and walk through deployment scenarios and implementation requirements. b. Tools Unpack your SAP HANA toolkit. See essential tools in action, from SAP HANA cockpit and SAP HANA studio, to the SAP HANA Predictive Analytics Library and SAP HANA smart data integration. c. Key Roles Understand how to use SAP HANA as a developer, administrator, data scientist, data center architect, and more. Explore key tasks like backend programming with SQLScript, security setup with roles and authorizations, data integration with the SAP HANA Data Management Suite, and more. Highlights include: 1) Architecture 2) Administration 3) Application development 4) Analytics 5) Security 6) Data integration 7) Data architecture 8) Data center

To facilitate scalability and resilience, many organizations now run applications in cloud native environments using containers and orchestration. But how do you know if the deployment is secure? This practical book examines key underlying technologies to help developers, operators, and security professionals assess security risks and determine appropriate solutions. Author Liz Rice, Chief Open Source Officer at Isovalent, looks at how the building blocks commonly used in container-based systems are constructed in Linux. You'll understand what's happening when you deploy containers and learn how to assess potential security risks that could affect your deployments. If you run container applications with kubectl or docker and use Linux command-line tools such as ps and grep, you're ready to get started. Explore attack vectors that affect container deployments Dive into the Linux constructs that underpin containers Examine measures for hardening containers Understand how misconfigurations can compromise container isolation Learn best practices for building container images Identify container images that have known software vulnerabilities Leverage secure connections between containers Use security tooling to prevent attacks on your deployment

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