Cloud Foundry Architecture

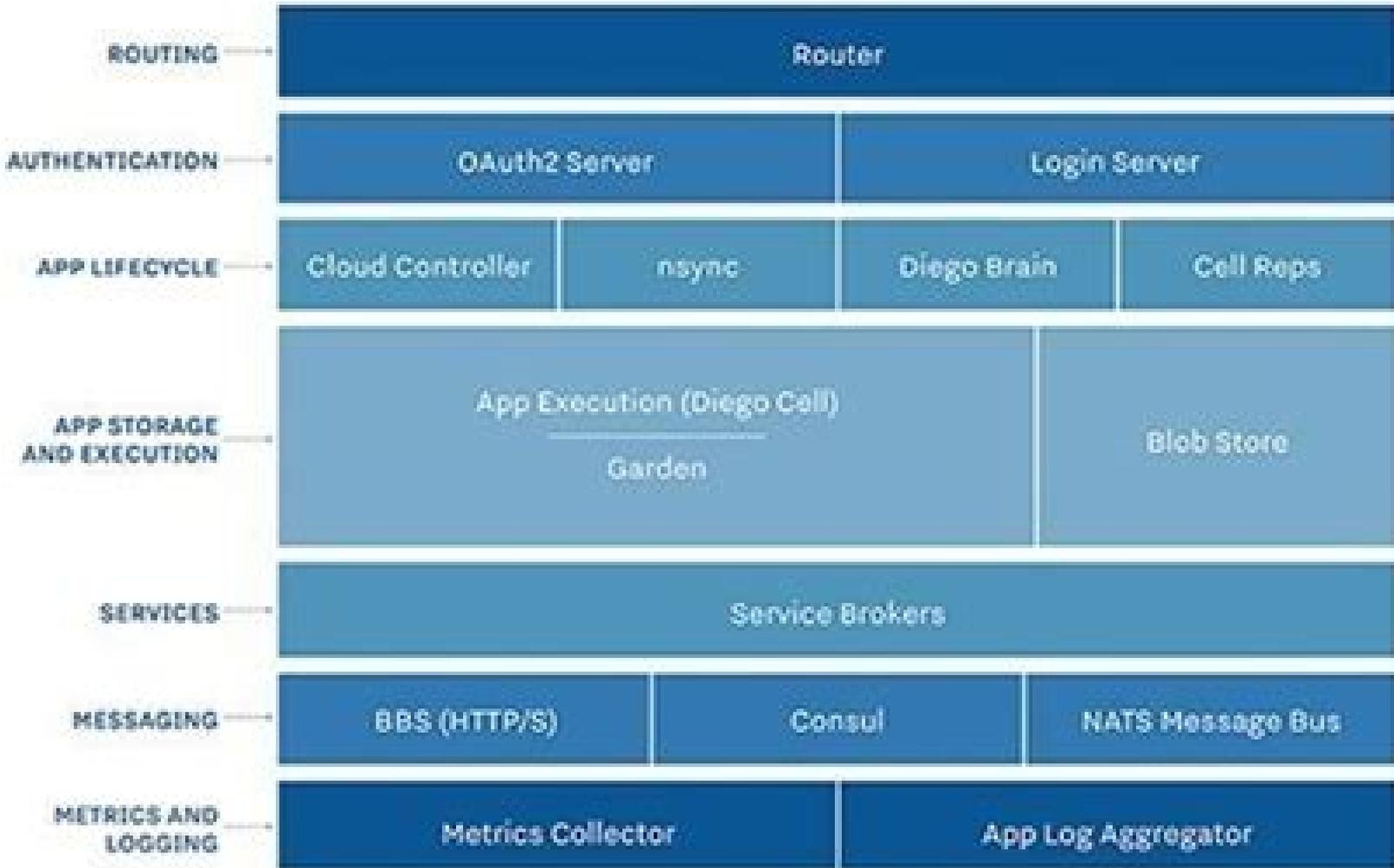|			
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SERVICES	Service Brokers		
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METRICS AND LOGGING	Metrics Collector	App Log Aggregator	

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Raffaela Di Napoli

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Encyclopedia of Cloud Computing San Murugesan,Irena Bojanova,2016-05-09 The Encyclopedia of Cloud Computing provides IT professionals educators researchers and students with a compendium of cloud computing knowledge Authored by a spectrum of subject matter experts in industry and academia this unique publication in a single volume covers a wide range of cloud computing topics including technological trends and developments research opportunities best practices standards and cloud adoption Providing multiple perspectives it also addresses questions that stakeholders might have in the context of development operation management and use of clouds Furthermore it examines cloud computing s impact now and in the future The encyclopedia presents 56 chapters logically organized into 10 sections Each chapter covers a major topic area with cross references to other chapters and contains tables illustrations side bars as appropriate Furthermore each chapter presents its summary at the beginning and backend material references and additional resources for further information

Service-Oriented Computing--ICSOC 2013 Workshops Alessio Lomuscio,Surya Nepal,Fabio Patrizi,Boualem Benatallah,Ivona Brandić,2014-05-02 This book constitutes the revised selected papers of the workshops of the 11th International Conference on Service Oriented Computing ICSOC 2013 held in Berlin Germany in December 2013 The conference hosted the following five workshops 3rd International Workshop on Cloud Computing and Scientific Applications CCSA 13 1st International Workshop on Cloud Service Brokerage CSB 13 1st International Workshop on Pervasive Analytical Service Clouds for the Enterprise and Beyond PASCEB 13 9th International Workshop on Semantic Web Enabled Software Engineering SWESE 13 9th International Workshop on Engineering Service Oriented Applications WESOA 13 and a PhD Symposium with best papers also being included in this book The 54 papers included in this volume were carefully reviewed and selected from numerous submissions They address various topics in the service oriented computing domain and its emerging applications **Developing Interoperable and Federated Cloud Architecture** Kecskemeti, Gabor,Kertesz, Attila,Nemeth, Zsolt,2016-04-11 As cloud technology continues to advance and be utilized many service providers have begun to employ multiple networks or cloud federations however as the popularity of these federations increases so does potential utilization challenges Developing Interoperable and Federated Cloud Architecture provides valuable insight into current and emergent research occurring within the field of cloud infrastructures Featuring barriers recent developments and practical applications on the interoperability issues of federated cloud architectures this book is a focused reference for administrators developers and cloud users interested in energy awareness scheduling and federation policies and usage Application Development and Design: Concepts, Methodologies, Tools, and Applications Management Association, Information Resources,2017-08-11 Advancements in technology have allowed for the creation of new tools and innovations that can improve different aspects of life These applications can be utilized across different technological platforms Application Development and Design Concepts Methodologies Tools and Applications is a comprehensive reference source for the latest

scholarly material on trends techniques and uses of various technology applications and examines the benefits and challenges of these computational developments Highlighting a range of pertinent topics such as software design mobile applications and web applications this multi volume book is ideally designed for researchers academics engineers professionals students and practitioners interested in emerging technology applications **Web-Based Services: Concepts, Methodologies, Tools, and Applications** Management Association, Information Resources,2015-11-09 The recent explosion of digital media online networking and e commerce has generated great new opportunities for those Internet savvy individuals who see potential in new technologies and can turn those possibilities into reality It is vital for such forward thinking innovators to stay abreast of all the latest technologies Web Based Services Concepts Methodologies Tools and Applications provides readers with comprehensive coverage of some of the latest tools and technologies in the digital industry The chapters in this multi volume book describe a diverse range of applications and methodologies made possible in a world connected by the global network providing researchers computer scientists web developers and digital experts with the latest knowledge and developments in Internet technologies **On the Portability of Applications in Platform as a Service** Stefan Kolb,2019-02-21 *Programming for PaaS* Lucas Carlson,2013-07-31 Platform as a Service PaaS is gaining serious traction among web and mobile developers but as new PaaS providers emerge and existing vendors upgrade their features it s hard to keep track of what PaaS has to offer This thorough introduction takes you through the PaaS model from a developer s point of view and breaks down the types of services that Google App Engine Windows Azure Heroku Cloud Foundry and others deliver Whether you re an entrepreneur or part of a large enterprise development team this book shows you how PaaS can help you focus on innovative applications rather than spend your time worrying about technical operations Track the cloud s evolution from IaaS and DevOps to PaaS Learn how PaaS combines the simplicity of shared web hosting with the control of dedicated hosting Explore the benefits of both portable and non portable PaaS options Apply best practices for moving legacy apps to PaaS and understand the challenges involved Write new applications for PaaS from scratch with RESTful meta services Use PaaS to build mobile apps with backend services that scale Examine the core services that each major provider currently offers Learn the situations in which PaaS might not be advantageous **Comparison Between SDP in Cloud PaaS and Traditional Hosting Platform** Samuel Chinenyeze,2013 API centric cloud PaaS is concerned with cloud platform as a service delivery that provisions development and deployment tools specific to underlying cloud provider s infrastructure for developing cloud aware applications With the advent of API centric cloud PaaS and the new approach to software development it poses there still stands some uncertainties as to whether development processes for these platforms are same as traditional application development and deployment processes The significance of this work is evaluating and establishing a comparison of the software development process between the API centric cloud PaaS and traditional development platform following the MVC design pattern with comparison case studies as

Google App Engine and Glassfish respectively An experimental approach was adopted for this research and empirical results show that traditional development platform may require more processes at selected development stages and consequently more flexibility from an MVC perspective compared to API centric cloud PaaS development depending on the nature of requirement or deterministic factors   <u>Cloud Foundry</u> Duncan C. E. Winn,2016-07-18 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   <u>VMware Cloud Foundry</u> Andrew M. Isaacs,Sam Kanakamedala,Lisa Reed,2012 In April 2011 VMware announced the worlds first open Platform as a Service PaaS offering Cloud Foundry The service provided a platform for building deploying and running cloud applications It offered developers a choice of developer frameworks infrastructure services and clouds to which to deploy applications Cloud Foundry was intended to allow software developers to focus on applications development rather than infrastructure Jerry Chen VMwares Vice President of Cloud and Application Services was responsible for identifying the appropriate business model for Cloud Foundry He knew that success for the service would be measured both in terms of establishing a vibrant ecosystem and building a successful business on the platform itself He and his team needed to find the right balance between VMwares own in house Software as a service SaaS offerings and potential partners or acquisitions   **Cloud Foundry for Developers** Rick Farmer,Rahul Jain,David Wu,2017-11-28 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

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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 *Cloud Native Go* Kevin Hoffman,Dan Nemeth,2016-12-05 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 **Cloud Foundry** Duncan Winn C. E.,2017 Open by Design Philip Estes,2015 *Open Source Cloud Computing Systems: Practices and Paradigms* Vaquero, Luis M.,Cáceres, Juan,Hierro, Juan J.,2012-01-31 This book bridges the gap between solutions and users needs pertaining to the most relevant open source cloud technologies available today from a practical perspective **A Platform as a Service for Concurrency-based Applications Provisioning in Internet of Things** Deepak Kumar Aggarwal,2018 The Internet of Things IoT is becoming ubiquitous with

sensor nodes getting more intelligent and capable of transmitting their processed data to a cloud Concurrency based applications play a vital role in the rise of the IoT A concurrency based application has multiple processes running independently and interacting with each other An example of the concurrency based application in IoT is wildfire management application In a forest various sensor devices are deployed in the different areas The processes of the wildfire management application are running on the sensor devices of different areas independently The process of a particular area monitors the temperature and interacts with the processes in the neighboring areas This interaction is based on the fire contour algorithm which allows the application to provide the real time direction and evolution of the fire in case of the fire incident Cloud computing is a paradigm for swiftly provisioning a shared pool of configurable resources e g services applications network and storage on demand Cloud computing can help to tackle the challenges of IoT based applications provisioning by offering the Platform as a Service PaaS Therefore developers of such concurrency based applications can use cloud s PaaS for faster development as well as cost efficiency However the PaaS faces several challenges at the time of provisioning of concurrency based application i e development deployment and management For the concurrency based application development phase PaaS should support the various API and frameworks for the development of multiple processes of the concurrency based application which helps to start development quickly For the deployment of the concurrency based application the PaaS must offer the facility of hosting of different processes in an isolated environment and enable process s edges to allow inter process communication In management phase of the concurrency based application PaaS should be able to orchestrate the chain of processes defined during the development phase The main intent of this dissertation is to provide a PaaS solution for concurrency based applications provisioning in IoT to solve the challenges as mentioned above The major contributions of the thesis are in twofold First we propose a PaaS architecture for concurrency based applications provisioning in IoT Second we provide a proof of concept in which a prototype is built using as basis Cloud Foundry an existing PaaS platform and TelosB as the IoT Infrastructure devices The performance measurements have also been made to validate the results claimed *Cloud Foundry Complete Self-Assessment Guide* Gerardus Blokdyk,2018 Cloud Foundry Complete Self Assessment Guide

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