

Testing Java Microservices

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Microservices Testing
Hands-On Microservices –
Monitoring and Testing
Microservices Best Practices for Java
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Spring Microservices
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Kubernetes Native Microservices with Quarkus and
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Effective Software Testing
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Spring Microservices in
Action, Second Edition
Bootstrapping Microservices, Second Edition
Kubernetes Native Microservices with Quarkus and MicroProfile

Effective Software Testing *Jason Porter Andy Porter Kenneth Finnigan Aditya Pratap Bhuyan Dinesh Rajput Michael Hofmann Piotr Mikowski Binildas A. Christudas Magnus Larsson Dileep Kumar Pandiya Claus Ibsen Magnus Larsson Sanghamithra Duggirala, Dr. Ashish Gupta Magnus Larsson Sung-Shik Jongmans CloudRoar Consulting Services John Carnell Ashley Davis John Clingan Maurizio Aniche*

summary testing java microservices teaches you to implement unit and integration tests for microservice systems running on the jvm you ll work with a microservice environment built using java ee wildfly swarm and docker you ll learn how to increase your test coverage and productivity and gain confidence that your system will work as you expect purchase of the print book includes a free ebook in pdf kindle and epub formats from manning publications about the technology microservice applications present special testing challenges even simple services need to handle unpredictable loads and distributed message based designs pose unique security and performance concerns these challenges increase when you throw in asynchronous communication and containers about the book testing java microservices teaches you to implement unit and integration tests for microservice systems running on the jvm you ll work with a microservice environment built using java ee wildfly swarm and docker you ll advance from writing simple unit tests for individual services to more advanced practices like chaos or integration tests as you move towards a continuous delivery pipeline you ll also master live system testing using technologies like the arquillian wiremock and mockito frameworks along with techniques like contract testing and over the wire service virtualization master these microservice specific practices and tools and you ll greatly increase your test coverage and productivity and gain confidence that your system will work as you expect what s inside test automation integration testing microservice systems testing container centric systems service virtualization about the reader written for java developers familiar with java ee ee4j spring or spring boot about the authors alex soto bueno and jason porter are arquillian team members andy gumbrecht is an apache tomee developer and pmc they all have extensive enterprise testing experience table of contents an introduction to microservices application under test unit testing microservices component testing microservices integration testing microservices contract tests end to end testing docker and testing service virtualization continuous delivery in microservices

testing java microservices teaches you to implement unit and integration tests for microservice systems running on the jvm youll work with a microservice environment built using java ee wildfly swarm and docker youll learn how to increase your test coverage and productivity and gain confidence that your system will work as you expect about the technology microservice applications present special testing challenges even simple services need to handle unpredictable loads and distributed message based designs pose unique security and performance concerns these challenges increase when you throw in asynchronous communication and containers about the book testing java microservices teaches you to implement unit and integration tests for microservice systems running on the jvm youll work with a microservice environment built using java ee wildfly swarm and docker youll advance from writing simple unit tests for individual services to more advanced practices like chaos or integration tests as you move towards a continuous delivery pipeline youll also master live system testing using technologies like the arquillian wiremock and mockito frameworks along with techniques like contract testing and over the wire service virtualization master these microservice specific practices and tools and youll greatly increase your test coverage and productivity and gain confidence that your system will work as you expect whats inside test automation integration testing microservice systems testing container centric systems service virtualization about the reader written for java developers familiar with java ee ee4j spring or spring boot about the authors alex soto bueno and jason porter are arquillian team members andy gumbrecht is an apache tomee developer and pmc they all have extensive enterprise testing experience

summary enterprise java microservices is an example rich tutorial that shows how to design and manage large scale java applications as a collection of microservices purchase of the print book includes a free ebook in pdf kindle and epub formats from manning publications about the technology large applications are easier to develop and maintain when you build them from small simple components java developers now enjoy a wide range of tools that support microservices application development including right sized app servers open source frameworks and well defined patterns best of all you can build microservices applications using your existing java skills about the book enterprise java microservices teaches you to design and build jvm based microservices applications you ll

start by learning how microservices designs compare to traditional java ee applications always practical author ken finnigan introduces big picture concepts along with the tools and techniques you ll need to implement them you ll discover ecosystem components like netflix hystrix for fault tolerance and master the just enough application server jeas approach to ensure smooth operations you ll also examine monitoring security testing and deploying to the cloud what s inside the microservices mental model cloud native development strategies for fault tolerance and monitoring securing your finished applications about the reader this book is for java developers familiar with java ee about the author ken finnigan leads the thornail project at red hat which seeks to make developing microservices for the cloud with java and java ee as easy as possible table of contents part 1 microservices basics enterprise java microservices developing a simple restful microservice just enough application server for microservices microservices testing cloud native development part 2 implementing enterprise java microservices consuming microservices discovering microservices for consumption strategies for fault tolerance and monitoring securing a microservice architecting a microservice hybrid data streaming with apache kafka

in the rapidly evolving world of software development microservices architecture has emerged as a transformative approach offering unparalleled scalability flexibility and resilience however with these advantages come significant challenges particularly in ensuring that complex distributed systems function seamlessly and reliably microservices testing ensuring robust and fault tolerant architectures is your comprehensive guide to mastering the art and science of testing in a microservices environment this book dives deep into the intricacies of microservices testing providing a detailed roadmap for developers testers and architects aiming to build robust fault tolerant systems it starts with the fundamentals explaining what microservices are and why they matter the book then progresses to advanced testing strategies covering every aspect of the testing lifecycle from unit testing to end to end testing performance testing and security testing readers will gain insights into the unique challenges of testing microservices such as handling service dependencies ensuring reliable communication between services and maintaining system integrity under load the book emphasizes the importance of automation continuous integration and continuous delivery showing how these practices can be effectively integrated into your testing

strategy to enhance efficiency and reliability each chapter is filled with practical examples real world case studies and actionable advice learn how industry leaders like netflix and amazon have successfully implemented microservices testing to maintain their competitive edge explore tools and frameworks such as junit mockito and service meshes that can help you streamline your testing processes in addition to technical guidance microservices testing ensuring robust and fault tolerant architectures also addresses the human and organizational aspects of testing discover how to foster a culture of collaboration and shared responsibility between development testing and operations teams understand the importance of monitoring and observability in maintaining a healthy microservices ecosystem whether you are transitioning from a monolithic architecture or refining your existing microservices framework this book provides the knowledge and tools you need to succeed by the end of this comprehensive guide you will be equipped to design and implement effective testing strategies that ensure your microservices are robust fault tolerant and ready to meet the demands of today s dynamic digital landscape embark on your journey to mastering microservices testing with microservices testing ensuring robust and fault tolerant architectures and build systems that stand the test of time

learn and implement various techniques related to testing monitoring and optimization for microservices architecture key featureslearn different approaches for testing microservices to design and implement robust and secure applicationsbecome more efficient while working with microservicesexplore testing and monitoring tools such as jmeter ready api and appdynamicsbook description microservices are the latest right way of developing web applications microservices architecture has been gaining momentum over the past few years but once you ve started down the microservices path you need to test and optimize the services this book focuses on exploring various testing monitoring and optimization techniques for microservices the book starts with the evolution of software architecture style from monolithic to virtualized to microservices architecture then you will explore methods to deploy microservices and various implementation patterns with the help of a real world example you will understand how external apis help product developers to focus on core competencies after that you will learn testing techniques such as unit testing integration testing functional testing and

load testing next you will explore performance testing tools such as jmeter and gatling then we deep dive into monitoring techniques and learn performance benchmarking of the various architectural components for this you will explore monitoring tools such as appdynamics dynatrace aws cloudwatch and nagios finally you will learn to identify address and report various performance issues related to microservices what you will learn understand the architecture of microservices and how to build services establish how external apis help to accelerate the development process understand testing techniques such as unit testing integration testing end to end testing and ui functional testing explore various tools related to the performance testing monitoring and optimization of microservices design strategies for performance testing identify performance issues and fine tune performance who this book is for this book is for developers who are involved with microservices architecture to develop robust and secure applications basic knowledge of microservices is essential in order to get the most out of this book

microservices is an architectural style in which large complex software applications are composed of one or more smaller services each of these microservices focuses on completing one task that represents a small business capability these microservices can be developed in any programming language this ibm redbooks publication covers microservices best practices for java it focuses on creating cloud native applications using the latest version of ibm websphere application server liberty ibm bluemix and other open source frameworks in the microservices ecosystem to highlight microservices best practices for java

learn how to build test secure deploy and efficiently consume services across distributed systems key features explore the wealth of options provided by spring cloud for wiring service dependencies in microservice systems create microservices utilizing spring cloud s netflix oss architect your cloud native data using spring cloud book description developing deploying and operating cloud applications should be as easy as local applications this should be the governing principle behind any cloud platform library or tool spring cloud an open source library makes it easy to develop jvm applications for the cloud in this book you will be introduced to spring cloud and will

master its features from the application developer's point of view this book begins by introducing you to microservices for spring and the available feature set in spring cloud you will learn to configure the spring cloud server and run the eureka server to enable service registration and discovery then you will learn about techniques related to load balancing and circuit breaking and utilize all features of the feign client the book now delves into advanced topics where you will learn to implement distributed tracing solutions for spring cloud and build message driven microservice architectures before running an application on docker containers you will master testing and securing techniques with spring cloud what you will learn abstract spring cloud's feature set create microservices utilizing spring cloud's netflix oss create synchronous api microservices based on a message driven architecture explore advanced topics such as distributed tracing security and contract testing manage and deploy applications on the production environment who this book is for this book appeals to developers keen to take advantage of spring cloud an open source library which helps developers quickly build distributed systems knowledge of java and spring framework will be helpful but no prior exposure to spring cloud is required

spring boot helps developers create applications that simply run when minimal configuration is required to start up an application even novice java developers are ready to start but this simplicity shouldn't constrain developers in addressing more complex enterprise requirements where microservice architecture is concerned with the need to rapidly deploy patch or scale applications containers provide solutions which can accelerate development testing as well as production cycles the cloud helps companies to scale and adapt at speed accelerate innovation and drive business agility without heavy upfront investment what if we can equip even a novice developer with all that is required to help enterprises achieve all of this this book does this and more java microservices and containers in the cloud offers a comprehensive guide to both architecture and programming aspects to java microservices development providing a fully hands on experience we not only describe various architecture patterns but also provide practical implementations of each pattern through code examples despite the focus on architecture this book is designed to be accessible to novice developers with only basic programming skills such as writing a hello world program and using maven to compile and run java code it ensures that even such

readers can easily comprehend deploy and execute the code samples provided in the book regardless of your current knowledge or lack thereof in docker kubernetes and cloud technologies this book will empower you to develop programming skills in these areas there is no restriction on beginners attempting to understand serious and non trivial architecture constraints while mastering concurrency and scalability techniques often requires years of experience this book promises to empower you to write microservices as well as how to containerize and deploy them in the cloud if you are a non programming manager who is not afraid to read code snippets this book will empower you to navigate the challenges posed by seasoned architects it will equip you with the necessary understanding of specialized jargon enabling you to engage in more meaningful discussions and break through barriers when collaborating with programmers architects and engineers across the table the code examples provided in the book are intentionally designed to be simple and accessible to all regardless of your programming background even if you are a c or python programmer and not familiar with java you will find the code examples easy to follow and understand you will acquire proficiency in both rpc style and messaging style inter microservice communication construct microservices utilizing a combination of sql postgresql and nosql mongodb databases leverage liquibase a database schema version control tool and administer ui in conjunction with postgresql leverage both graphql and conventional rest approaches side by side gain practical experience in implementing hexagonal and onion architectures through hands on exercises integrate asynchronous processing into your java applications using powerful apis such as deferredresult and completablefuture who it s for developers programmers and architects who want to level up their java micoservices and archtecture knowledge as well as managers who want to brush up on their technical knowledge around the topic

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this book explores how artificial intelligence ai is transforming the design and operation of microservices and api architecture it provides a clear and practical guide to using ai to automate tasks enhance performance and improve the scalability of microservice based systems starting with the basics you will learn about the core concepts of microservices and api design gradually building an understanding of how ai can be seamlessly integrated through real world examples visual diagrams and mock apis the book shows you how to bring theory into practice making complex systems easier to manage and more efficient you will also discover strategies for

testing and scaling systems securing apis and addressing ethical challenges in ai powered environments case studies highlight successful implementations offering valuable insights you can apply to your own projects whether you re a developer architect or tech enthusiast this book gives you the tools and inspiration to build smarter more resilient systems while staying ahead of future trends in ai and distributed computing what you ll learn understand the basics of microservices and api design and see how ai can make these systems smarter and more efficient discover how to use ai in microservices and apis to automate tasks improve performance and boost security learn how to design scalable and secure systems by following best practices and innovative approaches get practical tips on troubleshooting and solving challenges in ai powered microservice architectures who is this book for software architects and engineers ai and machine learning professionals and devops engineers

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a senior principal engineer working for red hat specializing in cloud and integration he has worked on apache camel for the last nine years where he heads the project claus lives in denmark jonathan anstey is an engineering manager at red hat and a core camel contributor he lives in newfoundland canada table of contents part 1 first steps meeting camel routing with camel part 2 core camel transforming data with camel using beans with camel enterprise integration patterns using components part 3 developing and testing microservices developing camel projects testing restful web services part 4 going further with camel error handling transactions and idempotency parallel processing securing camel part 5 running and managing camel running and deploying camel management and monitoring part 6 out in the wild clustering microservices with docker and kubernetes camel tooling bonus online chapters available at manning com books camel in action second edition and in electronic versions of this book reactive camel camel and the iot by henryk konsek

a step by step guide to creating and deploying production quality microservices based applications key featuresbuild cloud native production ready microservices with this comprehensively updated guideunderstand the challenges of building large scale microservice architectureslearn how to get the best out of spring cloud kubernetes and istio in combinationbook description with this book you ll learn how to efficiently build and deploy microservices this new edition has been updated for the most recent versions of spring java kubernetes and istio demonstrating faster and simpler handling of spring boot local kubernetes clusters and istio installation the expanded scope includes native compilation of spring based microservices support for mac and windows with wsl2 and an introduction to helm 3 for packaging and deployment a revamped security chapter now follows the oauth 2 1 specification and makes use of the newly launched spring authorization server from the spring team starting with a set of simple cooperating microservices you ll add persistence and resilience make your microservices reactive and document their apis using openapi you ll understand how fundamental design patterns are applied to add important functionality such as service discovery with netflix eureka and edge servers with spring cloud gateway you ll learn how to deploy your microservices using kubernetes and adopt istio you ll explore centralized log

management using the elasticsearch fluentd and kibana efk stack and monitor microservices using prometheus and grafana by the end of this book you will be confident in building microservices that are scalable and robust using spring boot and spring cloud what you will learn build reactive microservices using spring boot develop resilient and scalable microservices using spring cloud use oauth 2.1 oidc and spring security to protect public APIs implement docker to bridge the gap between development testing and production deploy and manage microservices with kubernetes apply istio for improved security observability and traffic management write and run automated microservice tests with junit testcontainers gradle and bash who this book is for if you are a java or spring boot developer who wants to learn how to build microservice landscapes from scratch this book is for you no familiarity with microservices architecture is required

preface in recent years microservices architecture has emerged as one of the most effective ways to build scalable resilient and flexible software systems traditional monolithic applications while functional often suffer from limitations when it comes to scalability deployment and maintenance as organizations increasingly strive for agility speed and efficiency in delivering value to their customers microservices have become a key enabler for achieving these goals microservices architecture a comprehensive guide is designed to provide a detailed understanding of the microservices paradigm from its foundational principles to its practical applications in real world scenarios this book offers a thorough exploration of microservices making it a valuable resource for developers architects and engineers who are either adopting microservices or looking to deepen their understanding of the approach the world of microservices is vast and can seem overwhelming especially given the complexity of distributed systems and the challenges that come with managing multiple independent services through this book we aim to demystify the microservices architecture and offer both theoretical insights and practical guidance on how to design develop and manage microservices based systems effectively whether you're building a new system or transitioning from a monolithic architecture this guide will help you navigate the key aspects of microservices including service design communication patterns deployment strategies performance optimization security and fault tolerance each chapter is carefully structured to provide readers with a clear progression from foundational concepts to advanced topics the book covers the

design principles that underpin successful microservices architectures including service decomposition database management and communication patterns we also delve into crucial areas like deployment orchestration fault tolerance security and scalability which are critical for ensuring that microservices based systems perform well under pressure to bring these concepts to life this book includes several case studies and real world applications these case studies highlight how organizations in various industries have successfully implemented microservices to address specific business challenges improve operational efficiency and enable rapid growth by showcasing these real world examples we aim to provide practical insights and lessons learned that readers can apply to their own projects we recognize that adopting microservices is not without its challenges while the architecture offers significant advantages it also requires careful planning and a thoughtful approach to design and implementation this book is meant to be a guide to help you understand both the opportunities and complexities of microservices equipping you with the knowledge and tools needed to build and maintain modern distributed systems finally we hope that this book will serve as an ongoing resource as you continue to explore and implement microservices in your own work the landscape of software architecture is constantly evolving and microservices will undoubtedly continue to play a crucial role in shaping the future of scalable maintainable and high performance systems whether you re a novice just beginning your journey into microservices or an experienced professional looking to refine your expertise microservices architecture a comprehensive guide will provide you with the insights and practical guidance to navigate the challenges and reap the benefits of this transformative approach authors

apply microservices patterns to build resilient and scalable distributed systems key features understand the challenges of building large scale microservice landscapes build cloud native production ready microservices with this comprehensive guide discover how to get the best out of spring cloud kubernetes and istio when used together book descriptionmicroservices architecture allows developers to build and maintain applications with ease and enterprises are rapidly adopting it to build software using spring boot as their default framework with this book you ll learn how to efficiently build and deploy microservices using spring boot this microservices book will take you

through tried and tested approaches to building distributed systems and implementing microservices architecture in your organization starting with a set of simple cooperating microservices developed using spring boot you ll learn how you can add functionalities such as persistence make your microservices reactive and describe their apis using swagger openapi as you advance you ll understand how to add different services from spring cloud to your microservice system the book also demonstrates how to deploy your microservices using kubernetes and manage them with istio for improved security and traffic management finally you ll explore centralized log management using the efk stack and monitor microservices using prometheus and grafana by the end of this book you ll be able to build microservices that are scalable and robust using spring boot and spring cloud what you will learn build reactive microservices using spring boot develop resilient and scalable microservices using spring cloud use oauth 2 0 oidc and spring security to protect public apis implement docker to bridge the gap between development testing and production deploy and manage microservices using kubernetes apply istio for improved security observability and traffic management who this book is for this book is for java and spring developers and architects who want to learn how to break up their existing monoliths into microservices and deploy them either on premises or in the cloud using kubernetes as a container orchestrator and istio as a service mesh no familiarity with microservices architecture is required to get started with this book

this book constitutes the refereed proceedings of the 25th ifip wg 6 1 international conference on coordination models and language coordination 2023 held in lisbon portugal in june 2023 as part of the 18th international federated conference on distributed computing techniques discotec 2023 the 12 regular papers and 2 short paper presented in this book were carefully reviewed and selected from 27 submissions the papers deal with the following topics collective adaptive systems and aggregate computing cyber physical systems verification and testing languages and processes and run time changes

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spring microservices in action second edition teaches you to build microservice based applications using java and spring summary by dividing large applications into separate self contained units microservices are a great step toward reducing complexity and increasing flexibility spring microservices in action second edition teaches you how to build microservice based applications using java and the spring platform this second edition is fully updated for the latest version of spring with expanded coverage of api routing with spring cloud gateway logging with the elk stack metrics with prometheus and grafana security with the hashicorp vault and modern deployment practices with kubernetes and istio purchase of the print book includes a free ebook in pdf kindle and epub formats from manning publications about the technology building and deploying microservices can be easy in spring libraries like spring boot spring cloud and spring cloud gateway reduce the boilerplate code in rest based services they provide an effective toolbox to get your microservices up and running on both public and private clouds about the book spring microservices in action second edition teaches you to build microservice based applications using java and spring you ll start by creating basic services then move to efficient logging and monitoring learn to refactor java applications with spring s intuitive tooling and master api management with spring cloud gateway you ll even deploy spring cloud applications with aws and kubernetes what s inside microservice design principles and best practices configuration with spring cloud config and hashicorp vault client side resiliency with resilience4j and spring cloud load balancer metrics monitoring with prometheus and grafana distributed tracing with spring cloud sleuth zipkin and elk stack about the reader for experienced java and spring developers about the author john carnell is a senior cloud engineer with 20 years of java experience illary huaylupo sánchez is a software engineer with over 13 years of experience table of contents 1 welcome to the cloud spring 2 exploring

the microservices world with spring cloud 3 building microservices with spring boot 4 welcome to docker 5 controlling your configuration with the spring cloud configuration server 6 on service discovery 7 when bad things happen resiliency patterns with spring cloud and resilience4j 8 service routing with spring cloud gateway 9 securing your microservices 10 event driven architecture with spring cloud stream 11 distributed tracing with spring cloud sleuth and zipkin 12 deploying your microservices

bootstrapping microservices second edition is a guide to microservices and cloud native distributed applications in it you ll learn how to configure cloud infrastructure with terraform package microservices using docker and deploy your finished project to a kubernetes cluster

build fast efficient kubernetes based java applications using the quarkus framework microprofile and java standards most popular java frameworks like spring were designed long before the advent of kubernetes and cloud native systems a new generation of tools including quarkus and microprofile have been cloud native and kubernetes aware from the beginning kubernetes native microservices with quarkus and microprofile teaches you how to create efficient enterprise java applications that are easy to deploy maintain and expand in kubernetes native microservices with quarkus and microprofile you ll learn how to deploy enterprise java applications on kubernetes develop applications using the quarkus runtime framework compile natively using graalvm for blazing speed create efficient microservices applications take advantage of microprofile specifications

go beyond basic testing great software testing makes the entire development process more efficient this book reveals a systemic and effective approach that will help you customize your testing coverage and catch bugs in tricky corner cases in effective software testing you will learn how to engineer tests with a much higher chance of finding bugs read code coverage metrics and use them to improve your test suite understand when to use unit tests integration tests and system tests use mocks and stubs to simplify your unit testing think of pre conditions post conditions invariants and contracts implement property based tests utilize coding practices like

dependency injection and hexagonal architecture that make your software easier to test write good and maintainable test code effective software testing teaches you a systematic approach to software testing that will ensure the quality of your code it s full of techniques drawn from proven research in software engineering and each chapter puts a new technique into practice follow the real world use cases and detailed code samples and you ll soon be engineering tests that find bugs in edge cases and parts of code you d never think of testing along the way you ll develop an intuition for testing that can save years of learning by trial and error about the technology effective testing ensures that you ll deliver quality software for software engineers testing is a key part of the development process mastering specification based testing boundary testing structural testing and other core strategies is essential to writing good tests and catching bugs before they hit production about the book effective software testing is a hands on guide to creating bug free software written for developers it guides you through all the different types of testing from single units up to entire components you ll also learn how to engineer code that facilitates testing and how to write easy to maintain test code offering a thorough systematic approach this book includes annotated source code samples realistic scenarios and reasoned explanations what s inside design rigorous test suites that actually find bugs when to use unit tests integration tests and system tests pre and post conditions invariants contracts and property based tests design systems that are test friendly test code best practices and test smells about the reader the java based examples illustrate concepts you can use for any object oriented language about the author dr maurício aniche is the tech academy lead at adyen and an assistant professor in software engineering at the delft university of technology table of contents 1 effective and systematic software testing 2 specification based testing 3 structural testing and code coverage 4 designing contracts 5 property based testing 6 test doubles and mocks 7 designing for testability 8 test driven development 9 writing larger tests 10 test code quality 11 wrapping up the book

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