

IBM DEVOPS AND SOFTWARE ENGINEERING PROFESSIONAL CERTIFICATE

IBM DEVOPS AND SOFTWARE ENGINEERING PROFESSIONAL CERTIFICATE REPRESENTS A COMPREHENSIVE EDUCATIONAL PROGRAM DESIGNED TO EQUIP LEARNERS WITH ESSENTIAL SKILLS IN BOTH DEVOPS PRACTICES AND SOFTWARE ENGINEERING PRINCIPLES. THIS PROFESSIONAL CERTIFICATE OFFERS A UNIQUE BLEND OF THEORETICAL KNOWLEDGE AND PRACTICAL APPLICATION, ENABLING PARTICIPANTS TO EXCEL IN MODERN SOFTWARE DEVELOPMENT ENVIRONMENTS. BY FOCUSING ON AUTOMATION, CONTINUOUS INTEGRATION, AND DEPLOYMENT, AS WELL AS SOFTWARE DESIGN AND TESTING, THE PROGRAM PREPARES INDIVIDUALS TO MEET THE DEMANDS OF TODAY'S TECH INDUSTRY. THE CURRICULUM EMPHASIZES INDUSTRY BEST PRACTICES, CLOUD TECHNOLOGIES, AND COLLABORATIVE WORKFLOWS CRUCIAL FOR EFFICIENT SOFTWARE DELIVERY. THIS ARTICLE EXPLORES THE KEY FEATURES, BENEFITS, AND COURSE COMPONENTS OF THE IBM DEVOPS AND SOFTWARE ENGINEERING PROFESSIONAL CERTIFICATE, PROVIDING INSIGHTS INTO HOW IT ENHANCES CAREER PROSPECTS. ADDITIONALLY, IT OUTLINES THE SKILLS ACQUIRED AND THE PROFESSIONAL OPPORTUNITIES OPENED THROUGH CERTIFICATION.

- OVERVIEW OF THE IBM DEVOPS AND SOFTWARE ENGINEERING PROFESSIONAL CERTIFICATE
- CORE COMPONENTS AND CURRICULUM STRUCTURE
- SKILLS DEVELOPED THROUGH THE CERTIFICATE PROGRAM
- BENEFITS OF EARNING THE IBM PROFESSIONAL CERTIFICATE
- CAREER OPPORTUNITIES AND INDUSTRY RELEVANCE
- ENROLLMENT PROCESS AND CERTIFICATION REQUIREMENTS

OVERVIEW OF THE IBM DEVOPS AND SOFTWARE ENGINEERING PROFESSIONAL CERTIFICATE

THE IBM DEVOPS AND SOFTWARE ENGINEERING PROFESSIONAL CERTIFICATE IS AN INDUSTRY-RECOGNIZED CREDENTIAL DESIGNED TO VALIDATE PROFICIENCY IN MODERN SOFTWARE DEVELOPMENT METHODOLOGIES. THIS CERTIFICATE INTEGRATES DEVOPS CONCEPTS WITH SOFTWARE ENGINEERING FOUNDATIONS, CREATING A HOLISTIC LEARNING EXPERIENCE THAT ADDRESSES THE ENTIRE SOFTWARE LIFECYCLE. THE PROGRAM IS TAILORED FOR DEVELOPERS, ENGINEERS, AND IT PROFESSIONALS SEEKING TO IMPROVE THEIR ABILITY TO DESIGN, BUILD, TEST, AND DEPLOY APPLICATIONS EFFECTIVELY. IBM'S APPROACH EMPHASIZES AUTOMATION, INFRASTRUCTURE AS CODE, CONTINUOUS FEEDBACK, AND COLLABORATIVE PRACTICES TO STREAMLINE DEVELOPMENT PROCESSES. THE CERTIFICATE PROGRAM IS ACCESSIBLE ONLINE, ENABLING LEARNERS WORLDWIDE TO BENEFIT FROM IBM'S EXPERTISE AND RESOURCES.

PURPOSE AND TARGET AUDIENCE

THIS PROFESSIONAL CERTIFICATE AIMS TO BRIDGE THE GAP BETWEEN SOFTWARE ENGINEERING THEORY AND PRACTICAL DEVOPS EXECUTION. IT TARGETS INDIVIDUALS WHO WANT TO ENHANCE THEIR TECHNICAL SKILLS AND ADOPT AGILE AND DEVOPS METHODOLOGIES IN THEIR WORKFLOWS. SUITABLE CANDIDATES INCLUDE SOFTWARE DEVELOPERS, SYSTEM ADMINISTRATORS, QUALITY ASSURANCE ENGINEERS, AND PROJECT MANAGERS WHO WORK CLOSELY WITH SOFTWARE DELIVERY TEAMS. BY COMPLETING THE PROGRAM, PARTICIPANTS DEMONSTRATE THEIR ABILITY TO USE IBM TOOLS AND INDUSTRY-STANDARD TECHNOLOGIES TO ACCELERATE SOFTWARE DEVELOPMENT WHILE MAINTAINING HIGH QUALITY.

PROGRAM DURATION AND FORMAT

THE IBM DEVOPS AND SOFTWARE ENGINEERING PROFESSIONAL CERTIFICATE IS STRUCTURED AS A SERIES OF MODULAR COURSES, TYPICALLY COMPLETED OVER SEVERAL MONTHS DEPENDING ON THE LEARNER'S PACE. THE FORMAT COMBINES VIDEO LECTURES, HANDS-ON LABS, QUIZZES, AND PROJECT ASSIGNMENTS THAT SIMULATE REAL-WORLD SCENARIOS. THIS BLENDED

APPROACH ENSURES COMPREHENSIVE UNDERSTANDING AND PRACTICAL EXPERTISE. LEARNERS RECEIVE CONTINUOUS FEEDBACK AND CAN ENGAGE IN PEER DISCUSSIONS, ENHANCING THE EDUCATIONAL EXPERIENCE. THE FLEXIBILITY OF THE PROGRAM ALLOWS PROFESSIONALS TO BALANCE THEIR STUDIES WITH OTHER COMMITMENTS.

CORE COMPONENTS AND CURRICULUM STRUCTURE

THE CURRICULUM OF THE IBM DEVOPS AND SOFTWARE ENGINEERING PROFESSIONAL CERTIFICATE COVERS A WIDE RANGE OF TOPICS ESSENTIAL FOR MASTERING DEVOPS AND SOFTWARE ENGINEERING. IT IS DIVIDED INTO SEVERAL FOCUSED MODULES, EACH ADDRESSING CRITICAL ASPECTS OF THE SOFTWARE DEVELOPMENT LIFECYCLE. THE PROGRAM EMPHASIZES BOTH FOUNDATIONAL KNOWLEDGE AND ADVANCED TECHNIQUES, INCLUDING AUTOMATION, CONTAINERIZATION, CONTINUOUS INTEGRATION/CONTINUOUS DEPLOYMENT (CI/CD), AND CLOUD-NATIVE DEVELOPMENT.

KEY COURSE MODULES

- **INTRODUCTION TO DEVOPS AND AGILE METHODOLOGIES:** UNDERSTANDING THE PRINCIPLES, CULTURE, AND BENEFITS OF DEVOPS AND AGILE FRAMEWORKS.
- **SOFTWARE DEVELOPMENT FUNDAMENTALS:** COVERING PROGRAMMING LANGUAGES, SOFTWARE DESIGN PATTERNS, AND DEVELOPMENT BEST PRACTICES.
- **CONTINUOUS INTEGRATION AND CONTINUOUS DELIVERY (CI/CD):** IMPLEMENTING PIPELINES FOR AUTOMATED TESTING, BUILDING, AND DEPLOYMENT.
- **INFRASTRUCTURE AS CODE AND AUTOMATION:** USING TOOLS SUCH AS TERRAFORM, ANSIBLE, AND JENKINS TO AUTOMATE INFRASTRUCTURE PROVISIONING AND CONFIGURATION.
- **CONTAINERIZATION AND CLOUD TECHNOLOGIES:** WORKING WITH DOCKER, KUBERNETES, AND CLOUD PLATFORMS TO MANAGE SCALABLE APPLICATIONS.
- **TESTING AND QUALITY ASSURANCE:** APPLYING AUTOMATED TESTING STRATEGIES AND MONITORING TO ENSURE SOFTWARE RELIABILITY.

HANDS-ON PROJECTS AND LABS

THE PROGRAM INCLUDES PRACTICAL PROJECTS THAT REQUIRE LEARNERS TO APPLY THEORETICAL CONCEPTS IN SIMULATED ENVIRONMENTS. THESE EXERCISES INVOLVE CREATING CI/CD PIPELINES, DEPLOYING APPLICATIONS IN CLOUD ENVIRONMENTS, AND MANAGING INFRASTRUCTURE VIA CODE. BY COMPLETING THESE PROJECTS, PARTICIPANTS GAIN CONFIDENCE IN REAL-WORLD SCENARIOS, PREPARING THEM FOR PROFESSIONAL CHALLENGES.

SKILLS DEVELOPED THROUGH THE CERTIFICATE PROGRAM

PARTICIPANTS IN THE IBM DEVOPS AND SOFTWARE ENGINEERING PROFESSIONAL CERTIFICATE PROGRAM ACQUIRE A DIVERSE SKILL SET THAT ENCOMPASSES BOTH TECHNICAL AND COLLABORATIVE COMPETENCIES. THESE SKILLS ARE CRITICAL FOR DRIVING EFFICIENT SOFTWARE DELIVERY AND MAINTAINING HIGH-QUALITY STANDARDS THROUGHOUT THE DEVELOPMENT LIFECYCLE.

TECHNICAL SKILLS

- **PROFICIENCY IN DEVOPS TOOLS:** MASTERY OF JENKINS, GIT, DOCKER, KUBERNETES, AND OTHER INDUSTRY-STANDARD TOOLS.
- **AUTOMATION AND SCRIPTING:** ABILITY TO WRITE SCRIPTS AND AUTOMATE WORKFLOWS TO REDUCE MANUAL TASKS AND ERRORS.

- **CONTINUOUS INTEGRATION AND DEPLOYMENT:** DESIGNING AND IMPLEMENTING PIPELINES THAT SUPPORT RAPID AND RELIABLE SOFTWARE RELEASES.
- **CLOUD INFRASTRUCTURE MANAGEMENT:** MANAGING CLOUD RESOURCES AND DEPLOYING APPLICATIONS USING INFRASTRUCTURE AS CODE PRINCIPLES.
- **SOFTWARE TESTING AND MONITORING:** IMPLEMENTING AUTOMATED TESTS AND MONITORING SOLUTIONS TO ENHANCE SOFTWARE QUALITY AND PERFORMANCE.

SOFT SKILLS AND COLLABORATION

BEYOND TECHNICAL EXPERTISE, THE CERTIFICATE PROGRAM FOSTERS ESSENTIAL SOFT SKILLS SUCH AS EFFECTIVE COMMUNICATION, TEAMWORK, AND PROBLEM-SOLVING. PARTICIPANTS LEARN TO WORK COLLABORATIVELY IN CROSS-FUNCTIONAL TEAMS, ALIGNING DEVELOPMENT AND OPERATIONS GOALS TO ACHIEVE CONTINUOUS IMPROVEMENT.

BENEFITS OF EARNING THE IBM PROFESSIONAL CERTIFICATE

THE IBM DEVOPS AND SOFTWARE ENGINEERING PROFESSIONAL CERTIFICATE OFFERS NUMEROUS ADVANTAGES FOR INDIVIDUALS SEEKING TO ADVANCE THEIR CAREERS IN SOFTWARE DEVELOPMENT AND IT OPERATIONS. THIS CREDENTIAL SERVES AS A TESTAMENT TO THE HOLDER'S CAPABILITIES AND COMMITMENT TO INDUSTRY STANDARDS.

INDUSTRY RECOGNITION AND CREDIBILITY

IBM IS A GLOBALLY RECOGNIZED LEADER IN TECHNOLOGY AND ENTERPRISE SOLUTIONS. EARNING A PROFESSIONAL CERTIFICATE FROM IBM ENHANCES A CANDIDATE'S CREDIBILITY AND SIGNALS PROFICIENCY TO EMPLOYERS AND PEERS. THIS RECOGNITION CAN BE A DECISIVE FACTOR IN COMPETITIVE JOB MARKETS.

CAREER ADVANCEMENT AND SALARY POTENTIAL

CERTIFIED PROFESSIONALS OFTEN EXPERIENCE IMPROVED JOB PROSPECTS, PROMOTIONS, AND HIGHER SALARIES. THE SKILLS ACQUIRED THROUGH THIS PROGRAM ARE IN HIGH DEMAND AS ORGANIZATIONS INCREASINGLY ADOPT DEVOPS PRACTICES TO ACCELERATE SOFTWARE DELIVERY AND IMPROVE QUALITY.

ACCESS TO IBM RESOURCES AND COMMUNITY

CERTIFICATION GRANTS ACCESS TO IBM'S EXTENSIVE RESOURCES, INCLUDING TECHNICAL DOCUMENTATION, FORUMS, AND NETWORKING OPPORTUNITIES WITH OTHER PROFESSIONALS. THIS COMMUNITY SUPPORT FOSTERS CONTINUOUS LEARNING AND PROFESSIONAL GROWTH.

CAREER OPPORTUNITIES AND INDUSTRY RELEVANCE

THE IBM DEVOPS AND SOFTWARE ENGINEERING PROFESSIONAL CERTIFICATE OPENS DOORS TO A WIDE ARRAY OF ROLES WITHIN THE TECHNOLOGY SECTOR. ORGANIZATIONS ACROSS INDUSTRIES ARE EMBRACING DEVOPS TO ENHANCE THEIR SOFTWARE DEVELOPMENT LIFECYCLE, CREATING SIGNIFICANT DEMAND FOR CERTIFIED PROFESSIONALS.

COMMON JOB ROLES

- DEVOPS ENGINEER
- SOFTWARE ENGINEER
- SITE RELIABILITY ENGINEER (SRE)

- AUTOMATION ENGINEER
- CLOUD ENGINEER
- CONTINUOUS INTEGRATION/CONTINUOUS DEPLOYMENT (CI/CD) SPECIALIST

INDUSTRY SECTORS

CERTIFIED INDIVIDUALS FIND OPPORTUNITIES IN VARIOUS SECTORS, INCLUDING FINANCE, HEALTHCARE, TELECOMMUNICATIONS, GOVERNMENT, AND TECHNOLOGY STARTUPS. THE VERSATILITY OF THE SKILLS LEARNED ENSURES ADAPTABILITY TO DIVERSE PROJECT ENVIRONMENTS AND ORGANIZATIONAL NEEDS.

ENROLLMENT PROCESS AND CERTIFICATION REQUIREMENTS

ENROLLING IN THE IBM DEVOPS AND SOFTWARE ENGINEERING PROFESSIONAL CERTIFICATE PROGRAM IS STRAIGHTFORWARD AND DESIGNED TO ACCOMMODATE LEARNERS OF VARYING BACKGROUNDS. THE ONLINE FORMAT ALLOWS GLOBAL ACCESS, PROMOTING FLEXIBILITY AND CONVENIENCE.

PREREQUISITES AND ELIGIBILITY

WHILE THERE ARE NO STRICT PREREQUISITES, FAMILIARITY WITH BASIC PROGRAMMING AND SOFTWARE DEVELOPMENT CONCEPTS IS BENEFICIAL. THE PROGRAM IS SUITABLE FOR BEGINNERS WITH SOME TECHNICAL EXPERIENCE AS WELL AS PROFESSIONALS AIMING TO DEEPEN THEIR KNOWLEDGE.

STEPS TO ENROLL

1. CREATE AN ACCOUNT ON THE IBM TRAINING PLATFORM OR PARTNERING EDUCATIONAL SITE.
2. REGISTER FOR THE IBM DEVOPS AND SOFTWARE ENGINEERING PROFESSIONAL CERTIFICATE PROGRAM.
3. COMPLETE THE REQUIRED COURSES AND HANDS-ON LABS WITHIN THE DESIGNATED TIMEFRAME.
4. PASS ALL ASSESSMENTS AND PROJECT EVALUATIONS TO DEMONSTRATE COMPETENCY.
5. RECEIVE THE PROFESSIONAL CERTIFICATE UPON SUCCESSFUL COMPLETION.

THE CERTIFICATION REMAINS VALID INDEFINITELY, BUT ONGOING LEARNING AND SKILL UPDATES ARE RECOMMENDED TO STAY CURRENT WITH EVOLVING TECHNOLOGIES AND PRACTICES.

FREQUENTLY ASKED QUESTIONS

WHAT IS THE IBM DEVOPS AND SOFTWARE ENGINEERING PROFESSIONAL CERTIFICATE?

THE IBM DEVOPS AND SOFTWARE ENGINEERING PROFESSIONAL CERTIFICATE IS AN ONLINE PROGRAM DESIGNED TO TEACH LEARNERS THE FUNDAMENTALS OF DEVOPS PRACTICES AND SOFTWARE ENGINEERING PRINCIPLES, INCLUDING CONTINUOUS INTEGRATION, CONTINUOUS DELIVERY, AUTOMATION, AND COLLABORATION.

WHO IS THE TARGET AUDIENCE FOR THE IBM DEVOPS AND SOFTWARE ENGINEERING

PROFESSIONAL CERTIFICATE?

THE PROGRAM IS IDEAL FOR ASPIRING SOFTWARE ENGINEERS, DEVELOPERS, IT PROFESSIONALS, AND ANYONE INTERESTED IN GAINING PRACTICAL SKILLS IN DEVOPS AND MODERN SOFTWARE ENGINEERING PRACTICES.

WHAT SKILLS WILL I GAIN FROM THE IBM DEVOPS AND SOFTWARE ENGINEERING PROFESSIONAL CERTIFICATE?

LEARNERS WILL ACQUIRE SKILLS IN SOFTWARE DEVELOPMENT LIFECYCLE, VERSION CONTROL USING GIT, AUTOMATION TOOLS, CONTAINERIZATION WITH DOCKER, CONTINUOUS INTEGRATION AND DELIVERY (CI/CD), MONITORING, AND CLOUD-NATIVE APPLICATION DEVELOPMENT.

HOW LONG DOES IT TYPICALLY TAKE TO COMPLETE THE IBM DEVOPS AND SOFTWARE ENGINEERING PROFESSIONAL CERTIFICATE?

THE CERTIFICATE PROGRAM USUALLY TAKES AROUND 6 TO 8 MONTHS TO COMPLETE IF DEDICATING A FEW HOURS PER WEEK, BUT PACING DEPENDS ON THE LEARNER'S SCHEDULE AND PRIOR EXPERIENCE.

IS PRIOR PROGRAMMING EXPERIENCE REQUIRED TO ENROLL IN THE IBM DEVOPS AND SOFTWARE ENGINEERING PROFESSIONAL CERTIFICATE?

WHILE SOME BASIC PROGRAMMING KNOWLEDGE IS HELPFUL, THE PROGRAM IS DESIGNED TO ACCOMMODATE BEGINNERS BY STARTING WITH FOUNDATIONAL CONCEPTS BEFORE ADVANCING TO COMPLEX TOPICS.

WHAT KIND OF PROJECTS OR HANDS-ON EXPERIENCE DOES THE IBM DEVOPS AND SOFTWARE ENGINEERING PROFESSIONAL CERTIFICATE OFFER?

THE CERTIFICATE INCLUDES PRACTICAL LABS AND PROJECTS SUCH AS BUILDING AND DEPLOYING APPLICATIONS, SETTING UP AUTOMATED PIPELINES, MANAGING CONTAINERIZED ENVIRONMENTS, AND WORKING WITH CLOUD SERVICES TO SIMULATE REAL-WORLD DEVOPS SCENARIOS.

CAN THE IBM DEVOPS AND SOFTWARE ENGINEERING PROFESSIONAL CERTIFICATE HELP ME GET A JOB IN THE TECH INDUSTRY?

YES, THE CERTIFICATE EQUIPS LEARNERS WITH IN-DEMAND SKILLS AND HANDS-ON EXPERIENCE VALUED BY EMPLOYERS, IMPROVING JOB PROSPECTS IN ROLES LIKE DEVOPS ENGINEER, SOFTWARE DEVELOPER, AND SITE RELIABILITY ENGINEER.

IS THE IBM DEVOPS AND SOFTWARE ENGINEERING PROFESSIONAL CERTIFICATE RECOGNIZED BY INDUSTRY PROFESSIONALS?

IBM IS A REPUTABLE TECHNOLOGY LEADER, AND THIS PROFESSIONAL CERTIFICATE IS WIDELY RECOGNIZED IN THE INDUSTRY AS A CREDIBLE CREDENTIAL DEMONSTRATING PRACTICAL DEVOPS AND SOFTWARE ENGINEERING EXPERTISE.

WHERE CAN I ENROLL IN THE IBM DEVOPS AND SOFTWARE ENGINEERING PROFESSIONAL CERTIFICATE PROGRAM?

THE CERTIFICATE PROGRAM IS AVAILABLE ON POPULAR ONLINE LEARNING PLATFORMS SUCH AS COURSERA, WHERE LEARNERS CAN ENROLL, ACCESS COURSE MATERIALS, COMPLETE ASSIGNMENTS, AND EARN THE CERTIFICATE UPON COMPLETION.

ADDITIONAL RESOURCES

1. *IBM DevOps ESSENTIALS*

THIS BOOK OFFERS A COMPREHENSIVE INTRODUCTION TO IBM'S DEVOPS TOOLS AND PRACTICES. IT COVERS THE INTEGRATION OF DEVELOPMENT AND OPERATIONS TEAMS, AUTOMATION OF WORKFLOWS, AND CONTINUOUS DELIVERY PIPELINES USING IBM TECHNOLOGIES. READERS WILL GAIN PRACTICAL INSIGHTS INTO IMPLEMENTING DEVOPS STRATEGIES WITHIN ENTERPRISE ENVIRONMENTS.

2. *MASTERING DEVOPS WITH IBM CLOUD*

FOCUSED ON LEVERAGING IBM CLOUD FOR DEVOPS, THIS BOOK GUIDES PROFESSIONALS THROUGH THE DEPLOYMENT, MONITORING, AND SCALING OF APPLICATIONS. IT HIGHLIGHTS IBM'S CLOUD-NATIVE TOOLS AND SERVICES THAT SUPPORT AGILE DEVELOPMENT AND OPERATIONAL EXCELLENCE. IDEAL FOR SOFTWARE ENGINEERS AIMING TO ENHANCE THEIR CLOUD DEVOPS SKILLS.

3. *SOFTWARE ENGINEERING PRINCIPLES FOR IBM PROFESSIONALS*

THIS TITLE DELVES INTO CORE SOFTWARE ENGINEERING CONCEPTS TAILORED FOR IBM'S ECOSYSTEM. IT EMPHASIZES DESIGN PATTERNS, SOFTWARE ARCHITECTURE, AND BEST CODING PRACTICES ALIGNED WITH IBM STANDARDS. THE BOOK IS DESIGNED TO PREPARE PROFESSIONALS FOR ADVANCED CERTIFICATION AND REAL-WORLD APPLICATION DEVELOPMENT.

4. *CONTINUOUS INTEGRATION AND DELIVERY WITH IBM URBANCODE*

DEDICATED TO IBM URBANCODE DEPLOY, THIS BOOK EXPLAINS HOW TO IMPLEMENT CONTINUOUS INTEGRATION AND CONTINUOUS DELIVERY (CI/CD) PIPELINES EFFECTIVELY. IT INCLUDES STEP-BY-STEP TUTORIALS ON AUTOMATING DEPLOYMENTS AND MANAGING RELEASES. READERS WILL LEARN HOW TO REDUCE DOWNTIME AND INCREASE DEPLOYMENT FREQUENCY.

5. *DEVOPS TRANSFORMATION STRATEGY: IBM CASE STUDIES*

THROUGH DETAILED CASE STUDIES, THIS BOOK ILLUSTRATES SUCCESSFUL DEVOPS TRANSFORMATIONS WITHIN IBM AND ITS CLIENTS. IT EXPLORES CULTURAL SHIFTS, TOOLCHAIN INTEGRATIONS, AND METRICS FOR MEASURING DEVOPS SUCCESS. THE REAL-WORLD EXAMPLES PROVIDE VALUABLE LESSONS FOR ORGANIZATIONS ADOPTING DEVOPS.

6. *IBM CLOUD PAK FOR APPLICATIONS: A DEVELOPER'S GUIDE*

THIS GUIDE FOCUSES ON IBM CLOUD PAK FOR APPLICATIONS, A KEY PLATFORM FOR MODERN SOFTWARE ENGINEERING AND DEVOPS. IT COVERS CONTAINERIZATION, MICROSERVICES ARCHITECTURE, AND AUTOMATION TOOLS THAT ENHANCE APPLICATION LIFECYCLE MANAGEMENT. THE BOOK EQUIPS DEVELOPERS WITH SKILLS TO BUILD SCALABLE, RESILIENT APPLICATIONS.

7. *PROFESSIONAL CERTIFICATE GUIDE: IBM SOFTWARE ENGINEERING*

DESIGNED TO SUPPORT CANDIDATES PURSUING THE IBM SOFTWARE ENGINEERING PROFESSIONAL CERTIFICATE, THIS BOOK REVIEWS ESSENTIAL TOPICS SUCH AS SOFTWARE DEVELOPMENT METHODOLOGIES, TESTING STRATEGIES, AND PROJECT MANAGEMENT. IT INCLUDES PRACTICE QUESTIONS AND TIPS TO SUCCEED IN CERTIFICATION EXAMS.

8. *MONITORING AND LOGGING IN IBM DEVOPS ENVIRONMENTS*

EFFECTIVE MONITORING AND LOGGING ARE CRITICAL IN DEVOPS, AND THIS BOOK ADDRESSES THESE NEEDS USING IBM TOOLS LIKE INSTANA AND LOG ANALYSIS. IT EXPLAINS HOW TO IMPLEMENT OBSERVABILITY, TROUBLESHOOT ISSUES, AND OPTIMIZE SYSTEM PERFORMANCE. READERS WILL LEARN BEST PRACTICES FOR MAINTAINING RELIABLE SERVICES.

9. *AGILE AND DEVOPS INTEGRATION WITH IBM TOOLS*

THIS BOOK EXPLORES THE SYNERGY BETWEEN AGILE METHODOLOGIES AND DEVOPS PRACTICES USING IBM'S SUITE OF TOOLS. IT COVERS SPRINT PLANNING, COLLABORATION TECHNIQUES, AND AUTOMATED TESTING WITHIN IBM'S DEVELOPMENT ENVIRONMENT. THE CONTENT IS IDEAL FOR TEAMS AIMING TO ACCELERATE DELIVERY WHILE MAINTAINING QUALITY.

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ibm devops and software engineering professional certificate: IBM Power Systems Virtual Server Guide for IBM i Dino Quintero, Jose Martin Abeleira, Adriano Almeida, Marcelos Avalos, Sanjeev Chhabra, Michael Easlon, Luis Ferreira, Ahmad Y Hussein, Diego Kesselman, Sergio Leyva, Gabriel Padilla Jimenez, Bogdan Savu, Deepak C Shetty, Luis Eduardo Silva Viera, Travis Siegfried, IBM Redbooks, 2022-03-30 This IBM® Redbooks® publication delivers a how-to usage content perspective that describes deployment, networking, and data management tasks on the IBM Power Systems Virtual Server by using sample scenarios. During the content development, the team used available documentation, IBM Power Systems Virtual Server environment, and other software and hardware resources to document the following information: IBM Power Systems Virtual Server networking and data management deployment scenarios Migrations use case scenarios Backups case scenarios Disaster recovery case scenarios This book addresses topics for IT architects, IT specialists, developers, sellers, and anyone who wants to implement and manage workloads in the IBM Power Systems Virtual Server. This publication also describes transferring the how-to-skills to the technical teams, and solution guidance to the sales team. This book compliments the documentation that available at the IBM Documentation web page and aligns with the educational materials that are provided by IBM Garage for Systems Technical Education.

ibm devops and software engineering professional certificate: *Integration Testing for Hybrid Cloud Applications using Galasa* Michael Baylis, Russell Bonner, James Davies, Clive Harris, Caroline McNamara, Catherine Moxey, Richard Somers, Will Yates, IBM Redbooks, 2021-03-29 In this IBM® Redpaper publication, we focus on the importance equality. This paper explains how this testing can be achieved only in an effective and efficient way by automating such automation. We specifically focus on Galasa. Galasa is an open-source deep integration test framework for hybrid cloud applications that allows teams to automate tests to run as part of a DevOps pipeline. Galasa was built as an integration test framework to test applications spanning multiple platforms as part of a hybrid multi-cloud. It also integrates all the test tools that are needed to test such an application. This feature gives you a single test catalog, single endpoint to run tests and a single UI to review the reports from those tests. These enterprise-level features are key to unlocking the value of your automation and allow you to deliver your DevOps journey.

ibm devops and software engineering professional certificate: *Intelligent Automation Simplified* DEBANJANA DASGUPTA, 2021-11-02 A guide to understand the potential of Intelligent Automation across businesses and enterprises. KEY FEATURES ● A comprehensive discussion of key concepts, techniques, and key elements of intelligent automation. ● Expert coverage on combining various technologies, including RPA, AI, Blockchain, and IoT. ● Includes case studies and use cases for successful automation applications. ● Precise guidance on how to scale automation in enterprises. DESCRIPTION 'Intelligent Automation Simplified' guides tech professionals to take a much more simplified and sophisticated step towards developing intelligent automation. This book will explain the basic concepts of smart automation and how to put it into practice for a company. This book explores each stage of automation design and explains how these automation fragments can be brought together in the end-to-end automation of workflow. This book discusses numerous examples and scenarios that will help relate and understand how technology can be used in real life to solve business problems. This book provides a lot of information and insights and helps readers grasp the methodology used to develop an automation solution correctly. With detailed illustrations and real use-cases, you will be able to easily create smart automation solutions and practice how to modify them. Towards the end, the book describes how smart automation expands in a company and discusses the various strategies for large-scale use. The book also highlights the latest trends in intelligent automation and its progress into the future of work. WHAT YOU WILL LEARN ● Learn about the essential and primary components of intelligent automation. ● Investigate the capabilities of RPA and AI in the development of Intelligent Automation solutions. ● Recognize the factors that will help you choose the best processes for automation. ● Learn how to use the framework to create an Intelligent Automation solution. ● Create a blueprint to scale automation in the enterprise. ●

Discover the most recent Intelligent Automation trends from industry experts. WHO THIS BOOK IS FOR This book is intended for current and future technical professionals who want to learn about Intelligent Automation, plan, and implement it in an enterprise or consult with clients. Readers should be familiar with the software development workflow and have a basic understanding of advanced technologies such as AI and RPA. TABLE OF CONTENTS 1. Introduction to Intelligent Automation 2. Robotic Process Automation 3. Artificial Intelligence in Automation 4. Other technologies in Automation 5. Intelligent Automation Use cases 6. Enterprise Automation Journey 7. Intelligent Automation - Trends and the future

ibm devops and software engineering professional certificate: Essentials of Application Development on IBM Cloud Ahmed Azraq, Hala A. Aziz, Uzma Siddiqui, IBM Redbooks, 2017-12-11 This IBM® Redbooks® publication is designed to teach university students and app developers the foundation skills that are required to develop, test, and deploy cloud-based applications on IBM Cloud. It shows the latest features of IBM Cloud for developing cloud applications, enhancing applications by using managed services, and the use of DevOps services to manage applications. This book is used as presentations guide for the IBM Skills Academy track Cloud Application Developer and as preparation material for the IBM professional certification exam IBM Certified Application Developer - Cloud Platform. The primary target audience for this course is university students in undergraduate computer science and computer engineer programs with no previous experience working in cloud environments. However, anyone new to cloud computing or IBM Cloud can also benefit from this course.

ibm devops and software engineering professional certificate: Learning IBM Bluemix Sreelatha Sankaranarayanan, 2016-10-25 Demystify application development on cloud platform by leveraging the power of IBM Bluemix About This Book The first book in the market that discusses the power of IBM Bluemix Shows developers how to develop and deploy applications on the cloud platform using IBM Bluemix A comprehensive guide to help you get started with IBM Bluemix also featuring samples applications Who This Book Is For This book is aimed at developers seeking to learn application development and deployment methods on IBM Bluemix. A basic knowledge of Java and Node.js is assumed. What You Will Learn Discover IBM Bluemix as a PaaS platform and learn about its three delivery models Develop and deploy a Hello World application on IBM Bluemix using the Cloud Foundry command line utility and the Bluemix console Extend your application by using the API or services provided by IBM Bluemix Understand microservices architecture and learn how to develop a sample application based on microservices architecture, using IBM Bluemix Learn how to leverage on-premise software and build an application on IBM Bluemix Scale and monitor an application on IBM Bluemix Explore the compute options on IBM Bluemix and work with each of them Build a mobile client application using Mobile services on IBM Bluemix In Detail IBM Bluemix is an open standard platform for building, running, and managing applications on the cloud. With Bluemix, developers can build innovative applications using various compute options and value added services , developers can also manage the application lifecycle using the platform provided DevOps services. Learning IBM Bluemix will take you on a journey from the basics of IBM Bluemix to working with the platform to developing and deploying of modern applications. The sample application use cases employed in the book will introduce you to the transformative nexus of cloud, mobile, and security, all enabled through capabilities provided out-of-the-box by IBM Bluemix. By the end of the book, you will have understood the benefits and use cases for IBM Bluemix, and will possess the skills to further explore the platform and thus develop, deploy, and secure your own innovative, new-age applications. Style and approach This comprehensive, step-by-step guide to learning IBM Bluemix will cover everything that is required to build, deploy, manage, and secure an application on the cloud.

ibm devops and software engineering professional certificate: IBM Software Defined Environment Dino Quintero, William M Genovese, KiWoon Kim, Ming Jun MJ Li, Fabio Martins, Ashish Nainwal, Dusan Smolej, Marcin Tabinowski, Ashu Tiwary, IBM Redbooks, 2015-08-14 This IBM® Redbooks® publication introduces the IBM Software Defined Environment (SDE) solution,

which helps to optimize the entire computing infrastructure--compute, storage, and network resources--so that it can adapt to the type of work required. In today's environment, resources are assigned manually to workloads, but that happens automatically in a SDE. In an SDE, workloads are dynamically assigned to IT resources based on application characteristics, best-available resources, and service level policies so that they deliver continuous, dynamic optimization and reconfiguration to address infrastructure issues. Underlying all of this are policy-based compliance checks and updates in a centrally managed environment. Readers get a broad introduction to the new architecture. Think integration, automation, and optimization. Those are enablers of cloud delivery and analytics. SDE can accelerate business success by matching workloads and resources so that you have a responsive, adaptive environment. With the IBM Software Defined Environment, infrastructure is fully programmable to rapidly deploy workloads on optimal resources and to instantly respond to changing business demands. This information is intended for IBM sales representatives, IBM software architects, IBM Systems Technology Group brand specialists, distributors, resellers, and anyone who is developing or implementing SDE.

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