

INEFOP en Coursera: Programa 1: Certificaciones Profesionales de IBM - Desarrollador de aplicaciones					
Nombre del curso	Descripción del curso	Idioma del curso	Cursos con subtítulos	Institución	Nivel de dificultad
Introduction to Cloud Computing	<p>This course introduces you to the core concepts of cloud computing. You gain the foundational knowledge required for understanding cloud computing from a business perspective as also for becoming a cloud practitioner. You understand the definition and essential characteristics of cloud computing, its history, the business case for cloud computing, and emerging technology use cases enabled by cloud. We introduce you to some of the prominent service providers of our times (e.g. AWS, Google, IBM, Microsoft, etc.) the services they offer, and look at some case studies of cloud computing across industry verticals.</p> <p>You learn about the various cloud service models (IaaS, PaaS, SaaS) and deployment models (Public, Private, Hybrid) and the key components of a cloud infrastructure (VMs, Networking, Storage - File, Block, Object, CDN). We also cover emergent cloud trends and practices including - Hybrid Multicloud, Microservices, Serverless, DevOps, Cloud Native and Application Modernization. And we go over the basics of cloud security, monitoring, and different job roles in the cloud industry.</p> <p>Even though this course does not require any prior cloud computing or programming experience, by the end of the course, you will have created your own account on IBM Cloud and gained some hands-on experience by provisioning a cloud service and working with it.</p> <p>This course is suitable for a large variety of audiences - whether you are an executive / manager / student who wants to become familiar with cloud computing terminology and concepts, or someone who wants foundational grounding in cloud computing to start a career in this field or become a cloud practitioner - such as a cloud engineer, developer, analyst, etc.</p> <p>The completion of this course also makes you eligible to earn the Cloud Computing Core IBM digital badge. More information about the badge can be found here: <a href="https://www.youracclaim.com/org/ibm/badge/introduction-to-cloud-computing">https://www.youracclaim.com/org/ibm/badge/introduction-to-cloud-computing</a></p>	Inglés	SI	IBM	Principiante
Introduction to Containers w/ Docker, Kubernetes & OpenShift	<p>After completing this course, you will be able to build applications in a cloud native way using containerization tools and technologies, and deploy your applications in any public, private or hybrid cloud at incredible scale. This course introduces you to containers and explains how containers differ from virtual machines. It also covers the importance of containers in cloud computing, as well as the emerging ecosystem of related technologies such as Docker, Kubernetes, Red Hat OpenShift, and Istio.</p> <p>Throughout the course you will apply what you learn with hands-on labs. From getting started with Docker, to orchestration and scaling with Kubernetes, and simplifying deployments with OpenShift. The labs are performed using your web browser on IBM Cloud and Skills Network Labs environments, that are made available to you at no charge. In the project at the end of the course you will build a container image and deploy and scale it on Cloud using OpenShift.</p> <p>Containerization is likely the most significant invention in IT since the introduction of virtualization. Open source projects like Kubernetes and products like Red Hat OpenShift have become standards for people looking to deploy and manage containers at scale. Everyone from small startups to large multinational corporations is transitioning to these technologies, and they are looking for people who are skilled in these areas.</p> <p>This course is of interest to anyone who wants to be a cloud practitioner - cloud developers, cloud architects, cloud system engineers, devops engineers, cloud networking specialists and many other roles. The material also serves the needs of those who perform the tasks of advising, consulting, building, moving and managing cloud solutions.</p> <p>There are no hard requirements needed to be able to take this course other than basic computer literacy, and a foundation level understanding of Cloud Computing.</p>	Inglés	SI	IBM	Principiante

<p>Python for Data Science and AI</p>	<p>Kickstart your learning of Python for data science, as well as programming in general, with this beginner-friendly introduction to Python. Python is one of the world's most popular programming languages, and there has never been greater demand for professionals with the ability to apply Python fundamentals to drive business solutions across industries. \n\nThis course will take you from zero to programming in Python in a matter of hours—no prior programming experience necessary! You will learn Python fundamentals, including data structures and data analysis, complete hands-on exercises throughout the course modules, and create a final project to demonstrate your new skills. \n\nBy the end of this course, you'll feel comfortable creating basic programs, working with data, and solving real-world problems in Python. You'll gain a strong foundation for more advanced learning in the field, and develop skills to help advance your career. \n\nThis course can be applied to multiple Specialization or Professional Certificate programs. Completing this course will count towards your learning in any of the following programs: \n\nIBM Applied AI Professional Certificate \n\nApplied Data Science Specialization \n\nIBM Data Science Professional Certificate \n\nUpon completion of any of the above programs, in addition to earning a Specialization completion certificate from Coursera, you'll also receive a digital badge from IBM recognizing your expertise in the field.</p>	<p>Inglés</p>	<p>SI</p>	<p>IBM</p>	<p>Principiante</p>
<p>Introduction to Cloud Development with HTML, CSS, JavaScript</p>	<p>Want to take the first steps to become a Cloud Application Developer? This course will lead you through the languages and tools you will need to develop your own Cloud Apps. \n\nBeginning with an explanation of how internet servers and clients work together to deliver applications to users, this course then takes you through the context for application development in the Cloud, introducing front-end, back-end, and full-stack development. \n\nYou'll then focus on the languages you need for front-end development, working with HTML, CSS, and JavaScript. \n\nFinally, you will discover tools that help you to store your projects and keep track of changes made to project files, such as Git and GitHub.</p>	<p>Inglés</p>	<p>NO</p>	<p>IBM</p>	<p>Principiante</p>
<p>Python Project for AI &amp; Application Development</p>	<p>This mini-course is intended to for you to demonstrate and apply foundational Python skills for developing applications and AI powered solutions. The completion of this course involves working on a hands-on project where you will develop an AI enabled application using Python, develop unit tests, and package it for distribution. \n\nPrior to starting this course please ensure that you have either completed the Python for Data Science, AI, Development &amp; Data Engineering course from IBM or have equivalent proficiency in working with Python.</p>	<p>Inglés</p>	<p>NO</p>	<p>IBM</p>	<p>Intermedio</p>

<p>Developing Applications with SQL, Databases, and Django</p>	<p>The essentials of application development are accessing, processing, and presenting data. Data is stored in various databases, either on-premise or on the cloud, and developers will need to learn how to talk to them via programming languages.</p> <p>In this course, you will be introduced to some fundamental database concepts. You will learn the basics of SQL, a simple and powerful programming language for querying and managing data. And you will learn about cloud database fundamentals and get hands-on cloud database experiences.</p> <p>In addition to SQL, you will discover how Object-Relational Mapping (ORM) allows you to use Object-Oriented Programming (OOP) languages to work with databases. You will gain full-stack Django skills by creating a Django web app to persist, process, and present data. And you will learn about cloud app platform fundamentals and get hands-on experience deploying your Django web app on the cloud.</p> <p>Course Learning Objectives:</p> <ul style="list-style-type: none"> <li>- Describe what is a database and how to model data</li> <li>- Compose SQL queries to insert, select, update, delete data in a database</li> <li>- Understand Object Relational Model (ORM)</li> <li>- Employ Django to develop database-powered applications</li> <li>- Deploy your Django app on the cloud</li> </ul> <p>Prerequisites:</p> <ul style="list-style-type: none"> <li>- GitHub</li> <li>- HTML &amp; CSS</li> <li>- Python</li> </ul>	<p>Inglés</p>	<p>NO</p>	<p>IBM</p>	<p>Intermedio</p>
<p>Application Development using Microservices and Serverless</p>	<p>Are you a developer ready to explore serverless application development? This intermediate-level course is for you!</p> <p>Begin with an understanding of how serverless benefits developers, learn when to use serverless programming, serverless deployment models, and discover its top use cases and design patterns. You'll also discover how serverless supports continuous integration and continuous delivery (CI/CD) and microservices integration.</p> <p>Hands-on labs reinforce serverless programming concepts for creation, deployment, and invocation of cloud-based functions—including the deployment of microservices using OpenShift and Istio. Complete the course with the confidence to build a multi-tier web app that uses IBM Cloud Functions, OpenShift, Istio, and more.</p>	<p>Inglés</p>	<p>NO</p>	<p>IBM</p>	<p>Intermedio</p>
<p>Full Stack Cloud Development Capstone Project</p>	<p>Demonstrate your proficiency in applying various Cloud Native tools and technologies to develop, deploy, run, and continuously enhance full stack applications on a cloud platform.</p>	<p>Inglés</p>	<p>NO</p>	<p>IBM</p>	<p>Intermedio</p>
<p>Developing Cloud Native Applications</p>	<p>Do you want to learn about developing applications that are cloud native right from conception to implementation? In this course, you'll begin with some crucial cloud concepts.</p> <p>Then, you will dive into specific tools and techniques for developing cloud native apps. Learning about the Cloud Native Computing Foundation, the significance of hybrid cloud infrastructures, and how they affect cloud app developers will be covered. You will then look at two key areas of cloud thinking: modernization and continuous integration/continuous delivery.</p>	<p>Inglés</p>	<p>NO</p>	<p>IBM</p>	<p>Avanzado</p>

<p>Developing Cloud Apps with Node.js and React</p>	<p>In this course, you will focus on server-side JavaScript and frameworks. You will discover ways to make development faster and easier in web browsers and embedded systems. You may ask, what is the relevance of developing cloud applications with Node.js and React? \n\nIn 2020, the Stack Overflow survey of developers reported that 51.4% of respondents are using Node.js, making it number one in the category of Other Frameworks, Libraries, and Tools. \n\nIn the Most Loved, Dreaded, and Wanted category for Other Frameworks, Libraries, and Tools, Node.js is in the top ten at 66.8%. In the Web Frameworks category, React is number two at 35.9% in usage and 66.9% in the Most Loved, Dreaded, and Wanted category for Web Frameworks. \n\nThis course is designed to help you achieve success in this fast-growing cloud computing area. You may be an IT person looking to step up in your career, a new graduate seeking to establish a solid skillset to score a job in the cloud or web development, an IT decision-maker who needs to manage more cloud-centric projects, or someone in another field who wants to be able to talk about cloud computing knowledgeably.</p>	<p>Inglés</p>	<p>NO</p>	<p>IBM</p>	<p>Avanzado</p>
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