SECURITY:

Getting Started with Threat Intelligence and Hunting: This is a foundational course, exposing the learner to threat intelligence concepts including: Attack trends by geography, threat intelligence tools and real-world use cases. Complete this course to get your badge.
Link:https://www.ibm.com/academic/topic/security?ach_id=3f13c64c-c7ca-45d8-bce1-f05711460f09

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Enterprise Security in Practice: This course content is intended to assist individuals looking for jobs that benefit from an outlook into the current cybersecurity challenges faced by the enterprise. People that are interested in acquiring a general understanding of the cybersecurity practices and tools available in the market.
Link:https://www.ibm.com/academic/topic/security?ach_id=27d09e4f-73b4-4006-b123-85a37e974a3c

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Security Operations Center in Practice: This course content is intended to assist individuals interested in elevating an organization's overall security posture by adopting practices, methods, and tools that increase enterprise cyber resilience.
link:https://www.ibm.com/academic/topic/security?ach_id=23f032a6-87b9-4d60-9cff-dd18a089b324

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Developing Secure Software: Learn the security basics to develop software that is hardened against attacks, and understand how you can reduce the damage and speed the response when a vulnerability is exploited. Thanks to the involvement of OpenSSF, a cross-industry collaboration that brings together leaders to improve the security of open source software by building a broader community, targeted initiatives, and best practices, this course provides specific tips on how to use and develop open source and other software securely.
link:https://www.ibm.com/academic/topic/security?ach_id=5fa327da-d138-4893-989f-7f46e625ecab

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IBM QRadar SIEM Foundations: IBM QRadar SIEM provides deep visibility into network, user, and application activity. It provides collection, normalization, correlation, and secure storage of events, flows, asset profiles, and vulnerabilities. QRadar SIEM classifies suspected attacks and policy violations as offenses.
Link:https://www.ibm.com/academic/topic/security?ach_id=391e3430-e89c-4aba-a067-605eb5f9f9a6

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IBM QRadar SIEM Advanced Topics: Using the skills taught in this course, you will be able to configure processing of uncommon events, work with reference data, and develop custom rules, custom actions, and custom anomoly detection rules using IBM Security QRadar.

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Cybersecurity Fundamentals: This course will provide you with an introduction to cybersecurity. From the offense perspective, you will learn about cyber attackers, their tactics, social engineering, and high-profile case studies. From the defense perspective, you will learn about common approaches organizations take to prevent, detect, and respond to cyberattacks. You will also learn about career opportunities in this exciting, growing field.
Link:https://www.ibm.com/academic/topic/security?ach_id=62dbdba2-fad7-43c1-bd4e-7596ff4c5511

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Quantum :

- Qiskit Textbook: Qiskit makes it easy to start learning quantum software to run on real quantum hardware. Teach your students with the same tools used by scientists and engineers worldwide to accelerate research towards practical applications for quantum computing

  Link:https://www.ibm.com/academic/topic/quantum-computing?ach_id=1b63f368-d46f-48d3-8221-75b7f9ec515d

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- Introduction to Quantum Computing and Quantum Hardware :
  This course is an introduction to the world of quantum computing, with an exploration of some of the key quantum algorithms and their implementations using quantum circuits, as well as the quantum hardware that is designed to run these algorithms.

  Link:https://www.ibm.com/academic/topic/quantum-computing?ach_id=c6ab97cf-7d60-4437-b3e5-a29ee75f72dc

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- Quantum Machine Learning: This course contains around eight hours of content, and is aimed at self-learners who are comfortable with undergraduate-level mathematics and quantum computing fundamentals. This course will take you through key concepts in quantum machine learning, such as parameterized quantum circuits, training these circuits, and applying them to basic problems. By the end of the course, you'll understand the state of the field, and you'll be familiar with recent developments in both supervised and unsupervised learning such as quantum kernels and general adversarial networks. This course finishes with a project that you can use to showcase what you've learnt.

  Link:https://www.ibm.com/academic/topic/quantum-computing?ach_id=4980ab77-f539-48de-926f-39ed73caa049

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Data Science:

OpenDS4All:

OpenDS4All is a project created to accelerate the creation of data science curriculum at academic institutions. The project hosts educational modules that may be used as building blocks for a data science curriculum.
link:https://www.ibm.com/academic/topic/data-science?ach_id=bcd9ff28-1bf5-45ba-9386-328ebb96a4ee

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ENTERPRISE DATA SCIENCE:

This course is intended to assist individuals with an active interest in understanding the foundational concepts related to the adoption of Data Science within the enterprise, and get a view inside an organization to appreciate which roles and technologies are involved for a data science project team to work in tandem, following the data science project lifecycle, tackling real-world industry challenges.
link:https://www.ibm.com/academic/topic/data-science?ach_id=8d72f699-26ac-4542-a701-6b69f50e6b5f

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ENTERPRISE DATA SCIENCE IN PRACTICE:

This course content is intended to assist individuals with an active interest in gaining a better positioning in the job marketplace through the acquisition of skills in the field of Data Science.
link:https://www.ibm.com/academic/topic/data-science?ach_id=9cd4e0d9-5c96-4866-9b29-c76e511e22b7

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MACHINE LEARNING FOR DATA SCIENCE PROJECTS:

This course content is intended to assist individuals with an active interest in gaining a better positioning in the job marketplace through the acquisition of skills in the field of Data Science.
link:https://www.ibm.com/academic/topic/data-science?ach_id=2bdf0308-8170-455d-8936-9a036ea290a3

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DATA FUNDAMENTALS:

This course content gives you the skills to;
Describe fundamental data concepts including types of data, big data, analytics techniques, typical steps in the data analytics process, and data visualization
Identify widely adopted data science methodologies and explain the activities in a typical data science project
Identify applications of data science across industries in the world
Describe the role of a data analyst, data scientist, and data engineer

Identify the purpose and use of some common data analysis and visualization tools Clean, refine, and visualize data using IBM Watson Studio with the data refinery tool Recognize the job market, responsibilities and skill sets of a data analyst and data scientist, and resources and learning opportunities to explore link:https://www.ibm.com/academic/topic/data-science?ach_id=e5c3f98b-ee96-45d4-b153-d58b1efb8b30

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CONSTRAINT PROGRAMMING WITH ILOG CP OPTIMIZER: Fundamentals of constraint programming (CP). CP is demonstrated through the use of ILOG CP Optimizer via ILOG OPL-CPLEX/ILOG Analyst Studio, a complete integrated development environment which leverages the powerful and intuitive algebraic modeling language, Optimization Programming Language. Link:https://www.ibm.com/academic/topic/data-science?ach_id=520052ab-1ee5-48c5-8f8f-a614a0971bb5

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IBM Planning Analytics Design and Develop Models in Planning Analytics Workspace: This course is designed to teach modelers how to build a complete model in IBM Planning Analytics. Through a series of lectures and hands-on exercises, students will learn how to set up dimensions and cubes, manually enter data into these structures, and define the data that users can see. Link:https://www.ibm.com/academic/topic/data-science?ach_id=94366672-0dd3-4ac6-bf44-9a0d78c43926

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IBM Planning Analytics Analyze Data and Create Reports: This course is designed to teach analysts how to use IBM Planning Analytics to analyze data to discover trends and exceptions, create and customize reports and templates, and contribute data to plans.

link:https://www.ibm.com/academic/topic/data-science?ach_id=202b1758-c742-45c3-a8d2-d227bc01c6b8

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IBM Cognos Framework Manager Design Metadata Models- This course provides an introduction to advanced knowledge of metadata modeling concepts, and how to model metadata for predictable reporting and analysis results using IBM Cognos Framework Manager.

link:https://www.ibm.com/academic/topic/data-science?ach_id=c6009472-5471-4d40-a3d4-c68fde05ceb4

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IBM Cognos Analytics - Author Reports Fundamentals: This course provides authors with an introduction to build reports using Cognos Analytics. Techniques to enhance, customize, and manage reports will be explored. Activities will illustrate and reinforce key concepts during this learning opportunity.

link:https://www.ibm.com/academic/topic/data-science?ach_id=72ba50d6-da72-407e-a8f8-1a0c1e3c972f

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IBM Cognos Analytics - Author Reports Advanced-This course teaches experienced authors advanced report building techniques to enhance, customize, manage, and distribute reports. Additionally, the student will learn how to create highly interactive and engaging reports that can be run offline by creating Active Reports.

link:https://www.ibm.com/academic/topic/data-science?ach_id=31fea6d3-db52-4277-9a4d-0dc964f41c80

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IBM Cognos Analytics - Author Reports with Multidimensional Data: Through interactive demonstrations and exercises, participants will learn how to author reports that navigate and manipulate dimensional data structures using the specific dimensional functions and features available in IBM Cognos Analytics.

link:https://www.ibm.com/academic/topic/data-science?ach_id=0fd39d43-923f-4c81-9d04-3eb642192833

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IBM Cognos Analytics - Architecture and Logging: Through lecture and interactive exercises participants will identify IBM Cognos Analytics components, examine how these components interact with Java, and will explore logging to assist when troubleshooting issues.

link:https://www.ibm.com/academic/topic/data-science?ach_id=cb5cf932-60fd-4bbd-9951-1bc8c0900e78

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Artificial Intelligence:

Getting Started with Artificial Intelligence:

Embark on a journey into the world of artificial intelligence with this course designed for beginners. Gain foundational knowledge in artificial intelligence systems, common industry applications, and a look into the innovative realm of generative AI. This course offers the perfect starting point for anyone who wants to understand and use the transformative power of AI technology.
Link:https://www.ibm.com/academic/topic/artificial-intelligence?ach_id=e0fdf687-5d00-49bf-9c15-395406bacd2a

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Getting Started with Enterprise-grade AI:

This course covers the foundations of Artificial Intelligence for business, including the following topics: AI Evolution, AI Industry Adoption Trends, Natural Language Processing and Virtual Agents.
How completing this course could benefit you?
Acquiring skills in AI will open a wide range of job opportunities, as roles in every industry will be touched by automation and AI.
Looking for a job? – Look for jobs where your domain knowledge can be combined with AI skills thus, achieving a higher employment opportunity.
Looking for a better job? – If you already have a job, ask yourself these questions. Is my job repetitive? Are there well-defined objectives to evaluate my job? Is there a large amount of data accessible to train an AI system?. If the answer to any of these questions is yes, you will most likely be able to benefit right away from the skills acquired through this course.
Link:https://www.ibm.com/academic/topic/artificial-intelligence?ach_id=256c0f15-a1f2-4b9e-b672-63f4d8b20018

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Artificial Intelligence Fundamentals:

Does artificial intelligence (AI) spark your interest? Here's your chance to visualize yourself in an AI career! You'll explore AI's history, then see how it can change the world. Along the way, you'll deep dive into ways that AI makes predictions, understands language and images, and learns using circuits inspired by the human brain. After a hands-on simulation in which you build and test a machine learning model, you'll finish with tips on how to find your own career in artificial intelligence.
Link:https://www.ibm.com/academic/topic/artificial-intelligence?ach_id=c7124e68-cce6-4dc4-b968-d65ba035a59f

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Fundamentals of Sustainability and Technology:

In this learning plan, you'll have the chance to learn about sustainability science and its applications in various fields of technology. Not only will you gain knowledge about sustainability, but you'll also develop practical skills to make a difference in various industries such as renewable energy, sustainable agriculture, green building, and waste management. You'll learn to define sustainability, identify ways that sustainability updates and extends the concept of conservation, and describe key applications of artificial intelligence and data analytics to drive sustainability.
Link:https://www.ibm.com/academic/topic/artificial-intelligence?ach_id=730ea2cf-c91f-4e4a-b4c9-b28eb26e979b

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Introduction to Generative AI in Action:

This credential earner has applied technical knowledge of principles of generative AI, prompt engineering techniques, and Python libraries. The individual has demonstrated general knowledge of the methods, applications, and ethical considerations of using GenAI models. The earner has practiced essential workplace skills and explored generative AI career pathways.
In this course, you'll learn about how generative AI (Gen-AI) works, how machine learning has evolved and has contributed to the progress of Gen-AI, and how foundation models are trained. You will also learn how to create a sandbox project using IBM watsonx and explore the basics of the prompt lab with provided sample prompts.

After completing this course, you should be able to:
• Explain how generative artificial intelligence (Gen-AI) works

• Describe what foundation models are and how they drive progress in machine learning systems
• Explain the functionality of transformer models and how they work to solve language-related tasks
Link:https://www.ibm.com/academic/topic/artificial-intelligence?ach_id=9217fca4-c36f-4e1d-ab87-da43469344a5

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OpenDS4All:
OpenDS4All is a project created to accelerate the creation of data science curriculum at academic institutions. The project hosts educational modules that may be used as building blocks for a data science curriculum.
Link:https://www.ibm.com/academic/topic/artificial-intelligence?ach_id=7de402f8-db6b-47a1-ad6c-d5ba028f7d2c

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Data Refinery Essentials:
Data Refinery is a self-service data preparation client for data scientists, data engineers, and business analysts. With it, you can quickly transform large amounts of raw data into consumable, quality information that's ready for analytics.
Link:https://www.ibm.com/academic/topic/artificial-intelligence?ach_id=84b143de-a18b-40b0-8c5c-46a6e9f511c3

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Automation:

IBM Process Mining Collection:
Process Mining is a process mining solution that automatically discovers, constantly monitors, and optimizes business processes. Process mining uses business system data to create and visualize an end-to-end process that includes all the process activities involved along with the various process paths. Businesses analyze the discovered process to gain actionable insights for improvement.
Link:https://www.ibm.com/training/collection/ibm-process-mining-business-analyst-342

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IBM Robotic Process Automation - Basic I

This is an introductory course to IBM Robotic Process Automation. In this course, students will learn the basics of inserting commands, publishing scripts, controlling the flow of scripts, and many other RPA essentials. This course provides students with the opportunity to learn and sharpen the basic skills needed to successfully learn IBM's Robotic Process Automation.
Link:https://www.ibm.com/academic/topic/ibm-automation?ach_id=eadb3ad7-335b-4152-b7b9-28ac8439844d

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IBM Robotic Process Automation - Basic II:

RPA Basic II is a continuation of the Basic I course, where students will further their RPA skills and learn more in-depth and essential concepts for the development of the programmer within IBM RPA resources. This course covers the use of assets, parameters, and the manipulation of PDFs, data tables, and databases
Link:https://www.ibm.com/academic/topic/ibm-automation?ach_id=ca833692-6a84-4db4-828e-44f38b7e432a

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CAPSTONE:

Enterprise Grade AI:

This course explores the topics, technology, and skills required to gain practice in the successful application of Artificial Intelligence to address key industry problems.This course covers the foundations of Artificial Intelligence for business, including the following topics: AI Evolution, AI Industry Adoption Trends, Natural Language Processing and Virtual Agents.
Link: IBM.com/ai
,https://www.ibm.com/academic/topic/capstone?ach_id=256c0f15-a1f2-4b9e-b672-63f4d8b20018

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ENTERPRISE DATA SCIENCE:

This course is intended to assist individuals with an active interest in understanding the foundational concepts related to the adoption of Data Science within the enterprise, and get a view inside an organization to appreciate which roles and technologies are involved for a data science project team to work in tandem, following the data science project lifecycle, tackling real-world industry challenges.
Link:https://www.ibm.com/academic/topic/capstone?ach_id=8d72f699-26ac-4542-a701-6b69f50e6b5f

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Threat intelligence and hunting:
This course is intended to assist individuals with an active interest in understanding the concepts related to the adoption of cybersecurity hardening practices within the enterprise, the course provides an inside view of the roles, technologies, and processes security teams adopt to tackle real-world cyber-attacks and insider threats affecting companies in all major industries across the globe today.
Link:https://www.ibm.com/academic/topic/capstone?ach_id=3f13c64c-c7ca-45d8-bce1-f05711460f09

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Cloud for the enterprise:
This course covers the basic foundations of cloud for the enterprise including: Consumer applications, Enterprise adoption, Delivery models and Industry Cloud Adoption.
Link:https://www.ibm.com/academic/topic/capstone?ach_id=b9de26db-b689-4894-bcad-5aa28deec936

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IBM CLOUD:

Journey to Cloud: Envisioning Your Solution:
This course is intended to assist individuals with an active interest in understanding the foundational concepts related to the adoption of Cloud Computing within the enterprise and get a view inside an organization to appreciate which roles and technologies are involved for a Cloud Computing project team to tackle real-world industry challenges.
Link:
https://www.ibm.com/academic/topic/cloud?ach_id=c0b2b320-7cac-4b42-b5d9-10bbf2c6890e

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Cloud Computing Fundamentals:

Computer and information technology (IT) jobs are in demand and the cloud market is growing. The cloud is driving technological innovation and serving as the foundation for business innovation. Are you ready for this and the future ahead? Learn the basics of cloud computing, service models, deployment models, software, and the many ways businesses benefit from cloud technology. Then, get practice working with cloud computing in a series of simulations to build and deploy a Docker container and create and review the security settings for an IBM Cloudant database. Finish by gathering tips and resources that can help you launch a great career in cloud computing. Upon completing the Cloud Computing Fundamentals course, you will gain a comprehensive understanding of cloud computing, including defining its concept and characteristics, exploring how it enables information sharing via local servers and the internet, and recognizing the problems it solves. You'll also become proficient in identifying various cloud service models, both proprietary and open source, understanding the services offered by major cloud providers, and assessing the business value of cloud services. Furthermore, you'll delve into on-premises hosting, cloud migration plans, and deployment models such as public, private, and hybrid clouds. Additionally, you'll learn about virtual resources, containers, microservices, APIs, and virtualization best practices, including hands-on experience creating, installing, and testing Docker containers. The course will also cover software development processes in the cloud, cloud orchestration benefits, and building and deploying Docker containers to the cloud. Moreover, you'll grasp the significance of cloud security, vulnerabilities, IAM features, DBaaS benefits, and cloud databases' support for data governance and compliance, with practical exercises like creating and reviewing security settings for an IBM Cloudant database. Lastly, you'll gain insights into the job market, roles, responsibilities, and skill sets of cloud computing professionals, along with resources and learning opportunities to further explore this dynamic field.
Link:
https://www.ibm.com/academic/topic/cloud?ach_id=a97d681b-ef48-4d70-b3e8-9fd87894e3a1

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Journey to Cloud: Transforming Your Culture:

This course is intended to assist individuals with an active interest in understanding the business impact of Cloud Adoption within the enterprise, and for those looking to learn the fundamentals of planning and architecting a cloud-native IT infrastructure.

Link:https://www.ibm.com/academic/topic/cloud?ach_id=83bb2016-5d9f-41dc-b0f8-f07caad9de6e

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Journey to Cloud: Orchestrating Your Solution:

This course is intended to assist individuals with an active interest in understanding advanced concepts related to the adoption of Cloud Computing within the enterprise, and get a view inside an organization to appreciate which roles and technologies are involved for a Cloud Computing project team to tackle real-world industry challenges.
Link:
https://www.ibm.com/academic/topic/cloud?ach_id=afef1487-e2da-4984-bf9c-0a4f226d7ab5

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DevOps for Enterprise Business Agility:

This course is intended to expose the learner to a new joint practice for business agility combining development and operations, involving DevOps, an agile culture and pipelines. DevOps is an enterprise capability for continuous software delivery and management that enables organisations to innovate rapidly to capitalise on new opportunities and reduce the cycle time to collect and react to customer requirements/feedback.
Link:
https://www.ibm.com/academic/topic/cloud?ach_id=1249104d-a046-4299-92ab-40135364e4e2

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Solution tutorials:

This guide outlines the essential tools needed to set up your development environment for effectively using IBM Cloud. It includes installing the IBM Cloud CLI for interacting with IBM Cloud API, Docker for packaging and running software in containers, kubectl for managing Kubernetes clusters via command line, oc for handling OpenShift applications, Helm 3 for managing Kubernetes applications with Helm Charts, Terraform for automating resource provisioning, jq for JSON processing, and Git for version control. These tools are crucial for following tutorials on implementing common patterns using IBM Cloud, ensuring productivity and adherence to best practices and proven technologies.

Link:
https://www.ibm.com/academic/topic/cloud?ach_id=e79ecf63-74ae-4e12-b0b2-e97de8693f36

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IBM Cloud Associate Solution Advisor:

Learners in any job role can get a first look at cloud computing and IBM Cloud. No experience needed. Learn to discuss and use cloud services with confidence. Earn your first cloud certification, using one of the learning paths and collections
Link:
https://www.ibm.com/academic/topic/cloud?ach_id=a8c57c17-476e-4b1d-8ee9-cebbbcf7029a

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Redhat:

Red Hat System Administration I (RH124):

Red Hat System Administration I (RH124) is designed for IT professionals without previous Linux system administration experience. The course provides students with Linux administration competence by focusing on core administration tasks. This course also provides a foundation for students who plan to become full-time Linux system administrators by introducing key command-line concepts and enterprise-level tools.

Course content summary

- Introduce Linux and the Red Hat Enterprise Linux ecosystem.
- Run commands and view shell environments.
- Manage, organize, and secure files.
- Manage users, groups and user security policies.
- Control and monitor systemd services.
- Configure remote access using the web console and SSH.
- Configure network interfaces and settings.
- Manage software using DNF

Link:
https://www.redhat.com/en/services/training/rh124-red-hat-system-administration-i

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Red Hat System Administration II (RH134):

Red Hat System Administration II (RH134) is the second part of the RHCSA training track for IT professionals who have already attended Red Hat System Administration I. The course goes deeper into core Linux system administration skills in storage configuration and management, installation and deployment of Red Hat Enterprise Linux, management of security features such as SELinux, control of recurring system tasks, management of the boot process and troubleshooting, basic system tuning, and command-line automation and productivity. This course assumes that students have attended Red Hat System Administration I (RH124).

Course summary

- Install Red Hat Enterprise Linux using scalable methods
- Access security files, file systems, and networks
- Execute shell scripting and automation techniques
- Manage storage devices, logical volumes, and file systems
- Manage security and system access
- Control the boot process and system services
- Run containers

Link:
https://www.redhat.com/en/services/training/rh134-red-hat-system-administration-ii

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Red Hat Enterprise Linux Automation with Ansible (RH294):

Learn how to automate Linux system administration tasks with Red Hat Ansible Automation Platform

Red Hat Enterprise Linux Automation with Ansible (RH294) is designed for Linux administrators and developers who need to automate repeatable and error-prone steps for system provisioning, configuration, application deployment, and orchestration.

This course is based on Red Hat® Enterprise Linux® 9 and Red Hat Ansible Automation Platform 2.2.

Course content summary

- Install Red Hat Ansible Automation Platform on control nodes.
- Create and update inventories of managed hosts and manage connections to them.

- Automate administration tasks with Ansible Playbooks and ad hoc commands.
- Write effective playbooks at scale.
- Protect sensitive data used by Ansible Automation Platform with Ansible Vault.
- Reuse code and simplify playbook development with Ansible Roles and Ansible Content Collections.

Link:
https://www.redhat.com/en/services/training/rh294-red-hat-linux-automation-with-ansible

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Introduction to OpenShift Applications (DO101):

A developer-focused introduction to OpenShift application building, deployment, scaling, and troubleshooting.

Red Hat® OpenShift® Container Platform is a containerized application platform that allows enterprises to accelerate and streamline application development, delivery, and deployment on-premise or in the cloud. As OpenShift and Kubernetes continue to become widely adopted, developers are increasingly required to understand how to develop, build, and deploy applications with a containerized application platform. While some developers are interested in managing the underlying infrastructure, most developers want to focus on developing applications and using OpenShift for its simple building, deployment, and scaling capabilities.

Course content summary

- Manage application source code with Git
- Develop applications with VSCode
- Deploy an application to OpenShift
- Update an application
- Configure application secrets
- Scale an application
- Troubleshoot and fixing an application

Link:
https://www.redhat.com/en/services/training/do101-introduction-openshift-applications

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Red Hat OpenShift I: Containers & Kubernetes (DO180):

Red Hat OpenShift Administration I: Managing Containers and Kubernetes (DO180) prepares OpenShift cluster administrators to manage Kubernetes workloads and to collaborate with developers, DevOps engineers, system administrators, and SREs to ensure the availability of application workloads. This course focuses on managing typical end-user applications that are often accessible from a web or mobile UI and that represent most cloud-native and containerized workloads. Managing applications also includes deploying and updating their dependencies, such as databases, messaging, and authentication systems.

The skills that you learn in this course apply to all versions of OpenShift, including Red Hat OpenShift on AWS (ROSA), Azure Red Hat OpenShift, and OpenShift Container Platform.

Course Content Summary

- Managing OpenShift clusters from the command-line interface and from the web console
- Deploying applications on OpenShift from container images, templates, and Kubernetes manifests
- Troubleshooting network connectivity between applications inside and outside an OpenShift cluster
- Connecting Kubernetes workloads to storage for application data
- Configuring Kubernetes workloads for high availability and reliability
- Managing updates to container images, settings, and Kubernetes manifests of an application

Link:
https://www.redhat.com/en/services/training/red-hat-openshift-administration-i-operating-a-production-cluster

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Red Hat OpenStack Administration I: Core Operations for Domain Operators (CL110):

Learn to operate a Red Hat® OpenStack Platform private cloud and manage domain resources to secure and deploy modern, scalable cloud applications, networks and storage

Red Hat OpenStack Administration I: Core Operations for Domain Operators (CL110) teaches you how to operate and manage a production Red Hat OpenStack Platform (RHOSP) single-site overcloud. You will learn how to create secure project

environments in which to provision resources and manage security privileges that cloud users need to deploy scalable cloud applications. You will learn about OpenShift integration with load balancers, identity management, monitoring, proxies, and storage. You will also develop more troubleshooting and Day 2 operations skills in this course.

Students in the Red Hat OpenStack Administration I: Core Operations for Domain Operators (CL110) course will focus on performing both routine and specialized tasks that are necessary to manage a production OpenStack overcloud domain. Students will manage OpenStack using both web-based and command-line interfaces. Essential skills covered in the course include the following:

- Launch instances to satisfy various use case examples.
- Manage domains, projects, users, roles, and quota in a multitenant environment.
- Manage networks, subnets, routers, and floating IP addresses.
- Manage instance security with group rules and access keys.
- Create and manage block, object and shared storage within OpenStack.
- Perform instance launch customization with cloud-init.
- Deploy scalable applications using stack templates.

Link:
https://www.redhat.com/en/services/training/cl110-red-hat-openstack-administration-i

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Red Hat Application Development I: Programming in Java EE (AD183):

Red Hat Application Development I: Programming in Java EE (AD183) exposes experienced Java Standard Edition (Java SE) developers to the world of Java Enterprise Edition (Java EE).

This course is based on Red Hat® Enterprise Application Platform 7.0.

In this course, you will learn about the various specifications that make up Java EE. Through hands-on labs, you will transform a simple Java SE command line application into a multi-tiered enterprise application using various Java EE specifications, including Enterprise Java Beans, Java Persistence API, Java Messaging Service, JAX-RS for REST services, Contexts and Dependency Injection (CDI), and JAAS for securing the application.

Course summary

- Generating multi-tiered Java EE applications.
- Packaging and deploying Java EE applications.
- Creating Enterprise Java Beans, including message-driven beans.
- Managing persistence.
- Creating REST services with JAX-RS.
- Implementing Contexts and Dependency Injection.
- Creating messaging applications with JMS.
- Securing Java EE applications with JAAS.

Link:
https://www.redhat.com/en/services/training/ad183-red-hat-application-development-i-programming-java-ee

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