

# Getting Started with AI/ML on OpenShift



Find the OpenShift installer at <https://try.openshift.com>

The screenshot displays the Red Hat OpenShift Cluster Manager web interface. The top navigation bar includes the Red Hat logo, a settings icon, a help icon, and the user name 'Trevor McKay'. The left sidebar contains a home icon and links to 'Red Hat OpenShift Cluster Manager', 'Clusters' (highlighted), 'Subscriptions', 'Documentation', 'Support Cases', and 'Cluster Manager Feedback'. The main content area is titled 'Select an infrastructure provider' and features a grid of nine options:

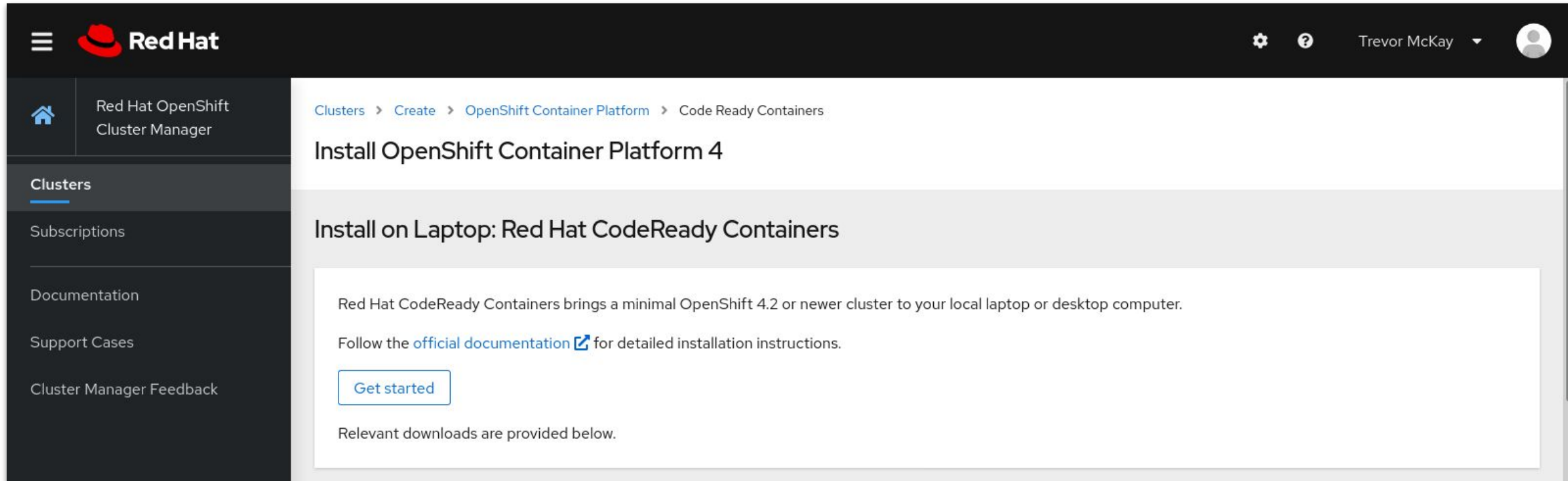
- aws**: Run on Amazon Web Services
- Azure**: Run on Microsoft Azure
- Google Cloud**: Run on Google Cloud Platform
- vmware vSphere**: Run on VMware vSphere
- Red Hat OpenStack Platform**: Run on Red Hat OpenStack
- Red Hat Virtualization** (marked as Developer Preview): Run on Red Hat Virtualization
- Bare Metal**: Run on Bare Metal
- IBM Z LinuxONE**: Run on IBM Z
- Run on Laptop**: Powered by Red Hat CodeReady Containers

Find the OpenShift installer at <https://try.openshift.com>

The screenshot displays the Red Hat OpenShift Cluster Manager web interface. On the left is a dark sidebar with navigation links: 'Red Hat OpenShift Cluster Manager' (home icon), 'Clusters' (underlined), 'Subscriptions', 'Documentation', 'Support Cases', and 'Cluster Manager Feedback'. The main content area is titled 'Select an infrastructure provider' and contains a 3x3 grid of options. Each option features a logo, a title, and a description. The 'Run on Laptop' option in the bottom right is circled in red. The top right of the interface shows a user profile for 'Trevor McKay' and settings/help icons.

Infrastructure Provider	Run on
<b>aws</b>	Run on Amazon Web Services
<b>Azure</b>	Run on Microsoft Azure
<b>Google Cloud</b>	Run on Google Cloud Platform
<b>vmware vSphere</b>	Run on VMware vSphere
<b>Red Hat OpenStack Platform</b>	Run on Red Hat OpenStack
<b>Red Hat Virtualization</b>	Run on Red Hat Virtualization
<b>Run on Bare Metal</b>	
<b>IBM Z LinuxONE™</b>	Run on IBM Z
<b>Run on Laptop</b> <small>Powered by Red Hat CodeReady Containers</small>	

CodeReady Containers is a great way to install OpenShift on a laptop



The screenshot shows the Red Hat OpenShift Cluster Manager web interface. The top navigation bar includes the Red Hat logo, a hamburger menu, and user information (Trevor McKay). The left sidebar contains links for Clusters, Subscriptions, Documentation, Support Cases, and Cluster Manager Feedback. The main content area displays the breadcrumb path: Clusters > Create > OpenShift Container Platform > Code Ready Containers. Below this, the title 'Install OpenShift Container Platform 4' is shown. A section titled 'Install on Laptop: Red Hat CodeReady Containers' contains the following text: 'Red Hat CodeReady Containers brings a minimal OpenShift 4.2 or newer cluster to your local laptop or desktop computer. Follow the [official documentation](#) for detailed installation instructions.' A 'Get started' button is located below the text. At the bottom of the section, it says 'Relevant downloads are provided below.'

Red Hat

Clusters > Create > OpenShift Container Platform > Code Ready Containers

## Install OpenShift Container Platform 4

### Install on Laptop: Red Hat CodeReady Containers

Red Hat CodeReady Containers brings a minimal OpenShift 4.2 or newer cluster to your local laptop or desktop computer.

Follow the [official documentation](#) for detailed installation instructions.

[Get started](#)

Relevant downloads are provided below.

# Add tools from the OperatorHub

Red Hat OpenShift Container Platform

Project: rad-io-app

## OperatorHub


Discover Operators from the Kubernetes community and Red Hat partners, curated by Red Hat. Operators can be installed on your clusters to provide optional add-ons and shared services to your developers. Once installed, the capabilities provided by the Operator appear in the [Developer Catalog](#), providing a self-service experience.

All Items AI/Machine Learning

Filter by keyword...


11 items

- Application Runtime
- Big Data
- Cloud Provider
- Database
- Developer Tools
- Integration & Delivery
- Logging & Tracing
- Monitoring
- Networking




**Cortex Certifai Operator**  
provided by CognitiveScale

Cortex Certifai empowers enterprises to identify and mitigate risk and vulnerabilities within AI applications.




**Dotscience Deployment Operator**  
provided by Dotscience

ML model deployment operator



**Driverless Ai Operator**  
provided by H2O.ai

Operator that allows users to spin up a Driverless AI server in OpenShift environment



**EDDI Operator**  
provided by LABS.AI

Basic Installation of EDDI, upgrade to new versions

[www.openshift.com/blog/building-trusted-ai-applications-on-red-hat-openshift-enterprise-kubernetes-platform](https://www.openshift.com/blog/building-trusted-ai-applications-on-red-hat-openshift-enterprise-kubernetes-platform)



## High level description of an operator



Imagine this is an IT admin, with all of the operational knowledge needed to manage your software (install, configure, scale, update, restart, etc)

## High level description of an operator



Now imagine all of that operational knowledge captured in a container running on OpenShift.



# Add resources to your project from Developer Catalog

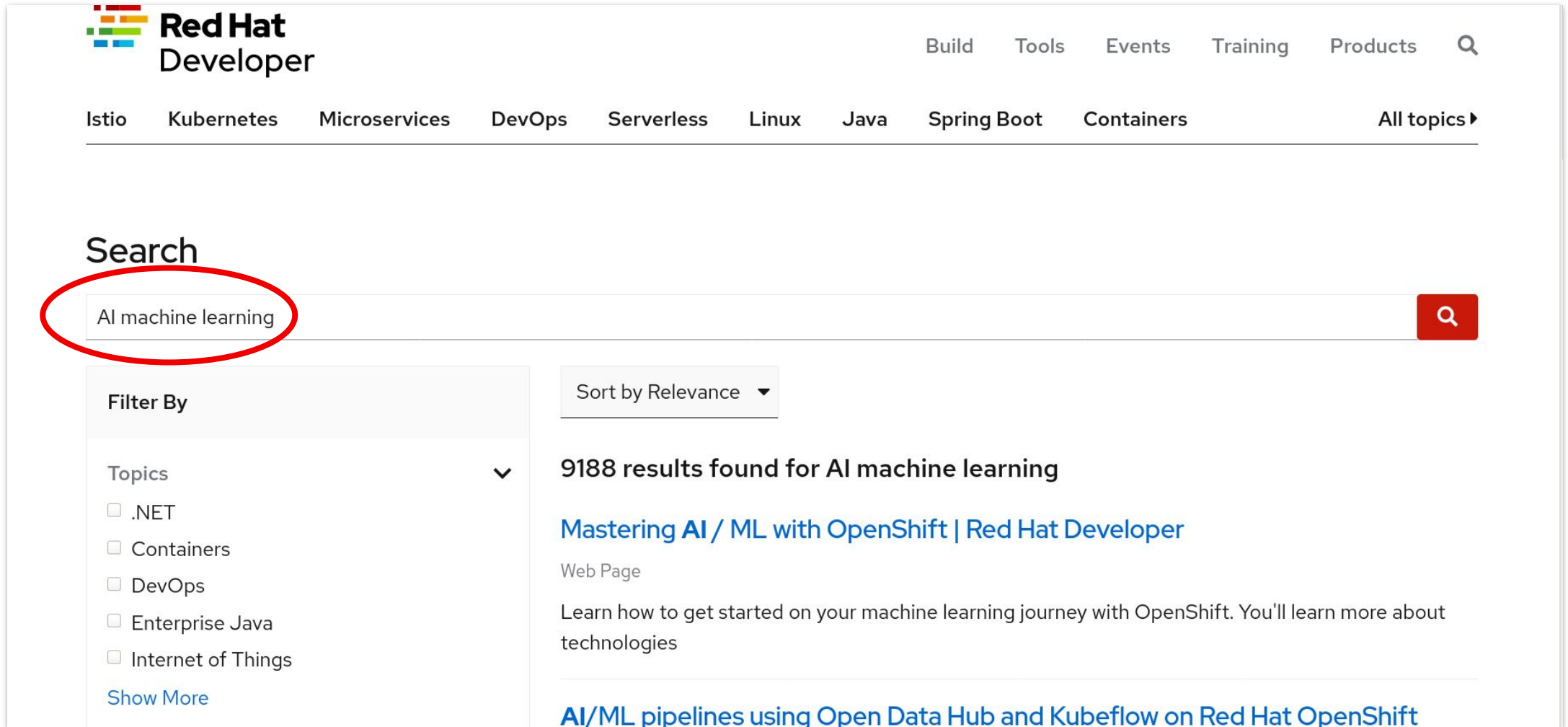
The screenshot shows the Red Hat OpenShift Developer Catalog interface. The top navigation bar includes the Red Hat logo, 'OpenShift Container Platform', and a user profile 'admin'. The left sidebar shows navigation options: 'Developer' (selected), '+Add', 'Topology', 'Builds', and 'Advanced'. The main content area is titled 'Developer Catalog' and shows 'Project: rad-io-app'. Below the title, there's a description: 'Add shared apps, services, or source-to-image builders to your project from the Developer Catalog. Cluster admins can install additional apps which will show up here automatically.' The interface is divided into two main sections: 'All Items' and 'Databases'. The 'Databases' section is active, showing a list of database services. A filter box 'Filter by keyword...' is present. The list includes 11 items, categorized by type: Service Class (0), Template (11), Source-to-Image (0), and Installed Operators (0). The visible items are:

- MariaDB (provided by Red Hat, Inc.)
- MariaDB (Ephemeral) (provided by Red Hat, Inc.)
- MongoDB (provided by Red Hat, Inc.)
- MongoDB (Ephemeral) (provided by Red Hat, Inc.)
- MySQL (provided by Red Hat, Inc.)
- MySQL (Ephemeral) (provided by Red Hat, Inc.)
- PostgreSQL (provided by Red Hat, Inc.)
- PostgreSQL (Ephemeral) (provided by Red Hat, Inc.)

Each item card includes an icon, the service name, the provider, and a brief description of the service.



Find blogs on <https://developers.redhat.com>



The screenshot shows the Red Hat Developer website's search interface. At the top, the Red Hat Developer logo is on the left, and navigation links for Build, Tools, Events, Training, and Products are on the right. Below this, a horizontal menu lists various topics: Istio, Kubernetes, Microservices, DevOps, Serverless, Linux, Java, Spring Boot, Containers, and All topics. The main section is titled 'Search'. A search bar contains the text 'AI machine learning', which is circled in red. To the right of the search bar is a red search button with a magnifying glass icon. Below the search bar, on the left, is a 'Filter By' section with a 'Topics' dropdown menu. The dropdown is open, showing a list of topics with checkboxes: .NET, Containers, DevOps, Enterprise Java, and Internet of Things. A 'Show More' link is at the bottom of the list. To the right of the filters is a 'Sort by Relevance' dropdown menu. The main content area displays '9188 results found for AI machine learning'. The first result is 'Mastering AI / ML with OpenShift | Red Hat Developer', labeled as a 'Web Page'. The description for this result reads: 'Learn how to get started on your machine learning journey with OpenShift. You'll learn more about technologies'. Below this, the title of the second result is visible: 'AI/ML pipelines using Open Data Hub and KubeFlow on Red Hat OpenShift'.

Red Hat Developer

Build Tools Events Training Products

Istio Kubernetes Microservices DevOps Serverless Linux Java Spring Boot Containers All topics

## Search

AI machine learning

Filter By

Topics

- ☐ .NET
- ☐ Containers
- ☐ DevOps
- ☐ Enterprise Java
- ☐ Internet of Things

Show More

Sort by Relevance

9188 results found for AI machine learning

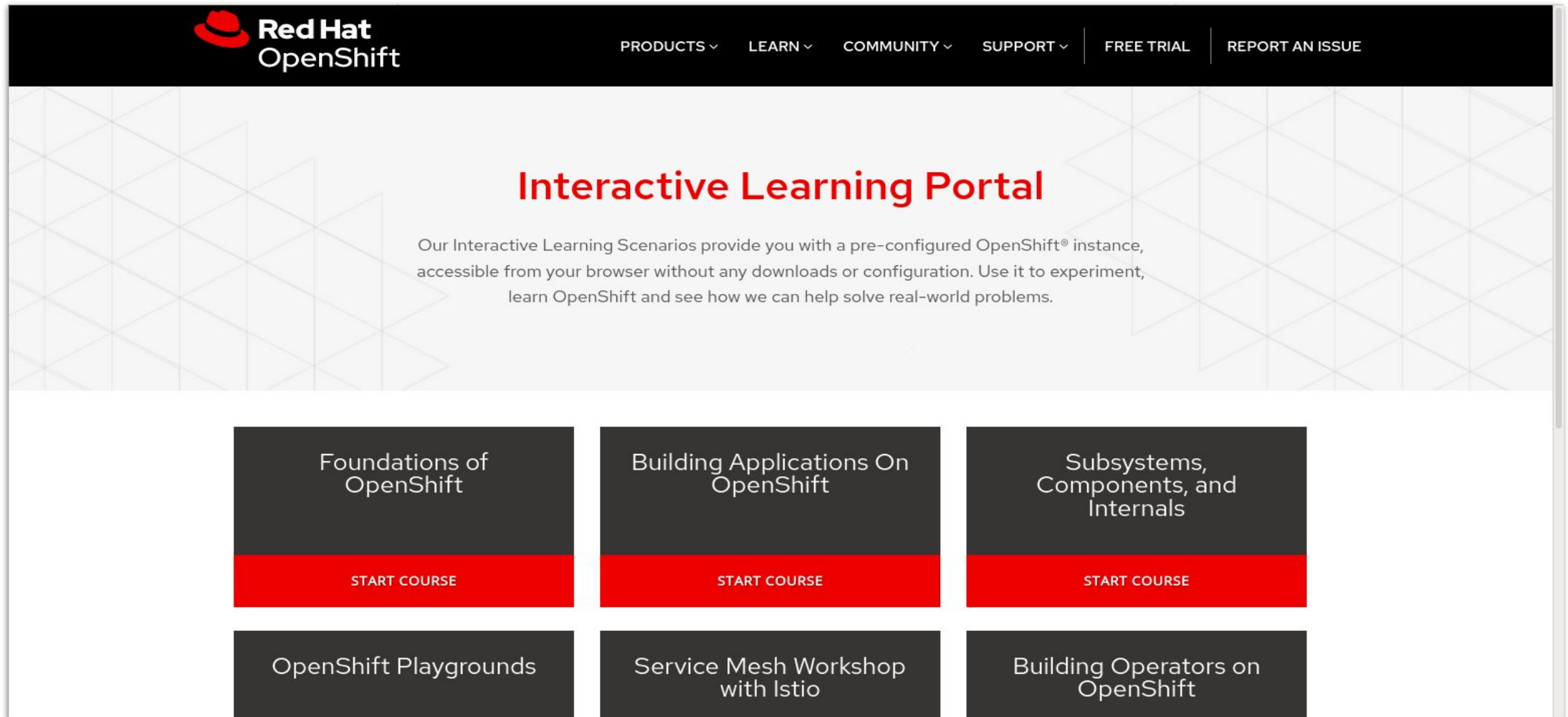
[Mastering AI / ML with OpenShift | Red Hat Developer](#)

Web Page

Learn how to get started on your machine learning journey with OpenShift. You'll learn more about technologies

[AI/ML pipelines using Open Data Hub and KubeFlow on Red Hat OpenShift](#)

Visit <https://learn.openshift.com>



The screenshot shows the Red Hat OpenShift Interactive Learning Portal. The header is black with the Red Hat OpenShift logo on the left and navigation links (PRODUCTS, LEARN, COMMUNITY, SUPPORT, FREE TRIAL, REPORT AN ISSUE) on the right. The main content area has a light gray background with a geometric pattern. The title "Interactive Learning Portal" is in red. Below it, a paragraph describes the interactive learning scenarios. At the bottom, there are six course cards arranged in two rows of three. Each card has a dark gray top half with the course title and a red bottom half with the "START COURSE" button.

**Red Hat OpenShift**

PRODUCTS ▾ LEARN ▾ COMMUNITY ▾ SUPPORT ▾ | FREE TRIAL | REPORT AN ISSUE

## Interactive Learning Portal

Our Interactive Learning Scenarios provide you with a pre-configured OpenShift® instance, accessible from your browser without any downloads or configuration. Use it to experiment, learn OpenShift and see how we can help solve real-world problems.

Foundations of OpenShift START COURSE	Building Applications On OpenShift START COURSE	Subsystems, Components, and Internals START COURSE
OpenShift Playgrounds	Service Mesh Workshop with Istio	Building Operators on OpenShift

## Additional links

<https://blog.redhat.com>

<https://blog.cognitivescale.com/>

<https://www.openshift.com/>

<https://kubernetes.io/>

## Email contacts

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Try the new Cortex Certifai Jupyter Notebook Scenario!

<https://learn.openshift.com/ai-machine-learning/cortex-certifai-notebook>

(please don't all go there right now!

There are limits on capacity -- maybe check it over a nice meal)

# Thank you!

## Questions and Answers

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