Description: Description: 5300_IBMpos

IBM Cloud Pak for Automation, Installation and Administration

WB318 (Classroom)

ZB318 (Self-paced)

Course description

This course is designed to teach the skills that are needed to work with IBM Cloud Pak for Automation. Through a presentation and three hands-on lab exercises, you learn to deploy the IBM Operational Decision Manager (ODM) and IBM FileNet P8 Content Platform Engine products in containerized environments by using IBM Cloud Pak for Automation. You use Network File System (NFS), Db2, and Lightweight Directory Access Protocol (LDAP) as required by ODM and Content running in docker containers. You also learn some basic skills to manage, troubleshoot, and administer the installed containerized products that are deployed on the Red Hat OpenShift environment. In the lab exercises, you interact with the OpenShift cluster by using both the OpenShift Command-line interface (CLI) and the web console.

For information about other related courses, see the IBM Training website:

**ibm.com**/training

General information

Delivery method

Classroom or self-paced virtual classroom (SPVC)

Course level

ERC 1.0

Product and version

IBM Cloud Pak for Automation V19.0.1

Audience

This course is intended for administrators and operators responsible for installing and managing containerized environments.

Learning objectives

After completing this course, you should be able to:

* Describe IBM Cloud Paks
* Explain IBM Cloud Pak for Automation
* Connect to Red Hat OpenShift Container (RHOCP)
* Load IBM Operational Decision Manager (ODM) docker images for Cloud Pak for Automation (CP4A)
* Create and secure the ODM database
* Deploy the ODM container on RHOCP
* Verify the successful ODM deployment
* Connect to the ODM container and successfully log in to the Decision Server console and Rule Execution Server console
* Create the Persistent Volumes and Persistent Volume Claims that are required by IBM FileNet P8 Content Platform Engine
* Prepare the database required by IBM Content Platform Engine
* Prepare Lightweight Directory Access Protocol LDAP required by BM Content Platform Engine
* Load the BM Content Platform Engine docker images for Cloud Pak for Automation
* Deploy the BM Content Platform Engine container
* Verify successful IBM Content Platform Engine deployment
* Connect to the BM Content Platform Engine container and successfully log in to the Administrative Console for Content Engine (ACCE)
* Troubleshoot the deployment
* Explore the Red Hat OpenShift container (RHOCP) web console for container management
* Examine the available open source monitoring options - metrics, alerts, and dashboards
* Scale an application deployment by using OpenShift
* Monitor containers by using probes

Prerequisites

Before taking this course, you should have some experience working with Docker and Kubernetes. You should also have:

* Experience with, or prior education on, Red Hat Enterprise Linux
* Experience with, or prior education on, Red Hat OpenShift Container platform (RHOCP)

Duration

2 days

Skill level

Intermediate

Notes

The following unit and exercise durations are estimates, and might not reflect every class experience. If the course is customized or abbreviated, the duration of unchanged units will probably increase.

None

Course agenda

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| Course introduction  Duration: 15 minutes |

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| Unit 1. IBM Cloud Pak for Automation Overview  Duration: 1 hour | |
| Overview | This unit introduces IBM Cloud Paks and provides an overview of IBM Cloud Pak for Automation. It also defines some key terminology and lists the skills that are required by Administrators and Operators who work with IBM Cloud Pak for Automation. |
| Learning objectives | After completing this unit, you should be able to:   * Describe IBM Cloud Paks * Explain IBM Cloud Pak for Automation * Define key terminology * Understand the learning prerequisites |

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| Unit 2. Education Lab Environment Overview  Duration: 1 hour | |
| Overview | This unit describes the Education Lab Environment that you work with in this course. It also explains the steps that you need to take when working with the lab environment to ensure a pleasant experience. |
| Learning objectives | After completing this unit, you should be able to:   * Understand the Education lab environment |

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| Exercise 1. Deploying the IBM Operational Decision Manager (ODM) container  Duration: 5 hours | |
| Overview | In this exercise, you complete the required steps to prepare, configure, and install IBM Operational Decision Manager (ODM) V8.10.2, which is part of IBM Cloud Pak for Automation V9.0.1 on top of a Red Hat OpenShift container platform (RHOCP) V3.11. |
| Learning objectives | After completing this exercise, you should be able to:   * Start and shut the lab environment * Connect to Red Hat OpenShift Container Platform (RHOCP) * Load the ODM docker images for Cloud Pak for Automation (CP4A) * Create and secure the ODM database * Deploy the ODM container on RHOCP * Verify the successful ODM deployment * Troubleshoot the deployment * Connect to the ODM containers and successfully log in to the Decision Center console and Rule Execution Server console |

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| Exercise 2. Deploying the IBM FileNet P8 Content Platform Engine (CPE) container  Duration: 5 hours | |
| Overview | In this exercise, you complete the required steps to prepare, configure, and install IBM Content Platform Engine (CPE) V5.5.3, which is part of IBM Cloud Pak for Automation V19.0.1 on top of a Red Hat OpenShift container platform (RHOCP) V3.11. |
| Learning objectives | After completing this exercise, you should be able to:   * Start and shut the lab environment * Connect to Red Hat OpenShift Container (RHOCP) * Configure the Persistent Volumes required by Content Platform Engine * Prepare the database required by Content Platform Engine * Prepare LDAP required by Content Platform Engine * Load the Content Platform Engine docker images for Cloud Pak for Automation * Deploy the Content Platform Engine container * Verify successful Content Platform Engine deployment * Connect to the Content Platform Engine container and successfully log in to the Administrative Console for Content Engine (ACCE) |

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| Exercise 3. Administering the IBM Cloud Pak for Automation containers  Duration: 2 hours | |
| Overview | In this exercise, you do some basic administration and management of the installed containerized IBM Cloud Pak for Automation products that are deployed on the Red Hat OpenShift environment. |
| Learning objectives | After completing this exercise, you should be able to:   * Explore the Red Hat OpenShift container (RHOCP) web console for container management * Examine the available open source monitoring options - metrics, alerts, and dashboards * Scale an application deployment by using OpenShift * Monitor containers by using probes |

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| Unit 3. Course summary, badge, and other learning resources  Duration: 30 minutes | |
| Overview | This unit summarizes the course and provides information for future study. |
| Learning objectives | After completing this unit, you should be able to:   * Describe the course objectives and what you learned * Earn a badge for this course * Identify and describe product certifications that are related to this course * Identify resources that can help you learn more |

For more information

To learn more about this course and other related offerings, and to schedule training, see **ibm.com**/training

To learn more about validating your technical skills with IBM certification, see **ibm.com**/certify

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