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IBM Digital Business Automation for Multicloud, Installation and Administration

ZB317 (Self-paced)

Course description

This course teaches the skills required for getting started with IBM Digital Business Automation for Multicloud 18.0 (DBAMC). It consists of four hands on lab exercises that take a step by step approach in a virtual environment. They are:

1. Installing IBM Cloud Private Native (ICP) V3.1.0 - In this exercise, you install and configure ICP on Red Hat.

2. Installing IBM Digital Business Automation on Multicloud (DBAMC) V18.0 - In this exercise, you install and configure DBAMC.

3. Deploying IBM Operational Decision Manager by using DBAMC - In this exercise, you deploy ODM. This document is also used as a template to create future deployments of additional content service containers, such as Business Automation Workflow (BAW), IBM FileNet Content Manager and IBM Business Automation Insights. Additional container deployment exercises will be added in the future.

4. Managing DBAMC - In this exercise, you learn some key managing and troubleshooting skills.

You have the flexibility to do the entire course in this series or do only a specific number of exercises, provided the exercise prerequisites are met.

**This course does not include any lecture units and consists of hands on lab exercises only**. There is one introduction unit that describes the course, the lab environment, and explains some key tips for working through the hands on lab exercises.

The **DBAMC sandbox environment** for this course uses the Red Hat Linux 7.5 operating system in a virtual environment. It consists of four Virtual Machines (VM) in total. You use three of these VMs for product installation from scratch. You install ICP and DBAMC in a two-node architecture. One node serves as the master, boot, proxy, and management node. The second node serves as the worker node. The third VM serves as the Network File System for shared storage. The fourth VM has IBM Security Directory Server installed as the LDAP server and IBM DB2 Enterprise server installed as the database. You utilize this VM to provide shared services for deployment.

**Some key advantages of this DBAMC education series**:

1. You work on the RHEL images from scratch and work through the prerequisites, environment configuration, and finally, installation of ICP and verification. You can also take those instructions and learning and then apply those in your own RHEL images or a corporate environment and build there.

2. The hands on lands exercise, use IBM Cloud Private Native, instead of Community edition making it closer to a production environment.

3. You work with Red Hat Enterprise Linux environment, which is the expected production environment for many clients.

4. The DBAMC sandbox uses dedicated Network File System (NFS) VM that is connected to the Master node and it provides shared file storage to reduce workload.

5. The installation architecture is flexible and uses a two-node architecture (as opposed to a Community edition version on a single node) with an external NFS server for storage (smallest footprint but still resembling perhaps a small development or production environment). For additional container deployments, multiple worker nodes can be easily added to this architecture. Furthermore, ICP Native edition's two node architecture is superior to the single node edition in the Community edition.

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

**ibm.com**/training

General information

Delivery method

Self-paced virtual classroom (SPVC)

Course level

ERC 1.0

Product and version

IBM Digital Business Automation for Multicloud V18.0

IBM Cloud Private Native V3.1.0

Audience

This course is designed for anyone - Clients, Business Partners, and IBMers ... and so on.

Learning objectives

After completing this course, you should be able to:

* Configure and verify the prerequisites required for IBM Cloud Private (ICP)
* Configure the RHEL environment in preparation of ICP installation
* Create shared persistent storage in a Network File System (NFS)
* Install Docker V18.03.1
* Install IBM Cloud Private Native V3.1.0
* Access and explore the ICP cluster management console (Dashboard) in a browser
* Install and configure IBM Cloud Private command line interface (CLI) required for DBAMC
* Install and configure IBM Kubernetes command line interface (Kubectl CLI) required for DBAMC
* Install and configure Helm command line interface (Helm CLI) required for DBAMC
* Load container images into the Docker private registry
* Install IBM Business Automation Configuration Container (IBACC)
* Configure Helm and deploy ibm-dba-multicloud-prod
* Install DBAMC V18.0
* Explore and start IBM Security Directory Server (LDAP), WebSphere Administration Console, and IBM DB2 servers required as a shared services for deployment
* Create Persistent Volume and Persistent Volume Claim for storage needed for deployment of content service containers
* Configure DBAMC for deployment
* Deploy IBM Operational Decision Manager by using DBAMC
* Access the deployed containers - Decision Center console and Rule Execution Server console
* Troubleshoot container images and catalog in the dashboard
* Manage deployed containers - scale, remove, and change image scopes
* Use the metering service in DBAMC
* Use the monitoring service in DBAMC

Prerequisites

Before taking this course, no prior ICP or DBAMC skills are required.

Duration

2 days

Skill level

Intermediate

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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