Description: Description: 5300_IBMpos

Installing IBM Cloud Private Native V3.1.0 in a multi-node cluster on Red Hat

ZB316 (Self-paced)

Course description

This course teaches the skills required for installing IBM Cloud Private Native (ICP) 3.1.0. It consists of a single hands on lab exercise that take a step by step approach in a virtual environment. It is:

Installing IBM Cloud Private Native (ICP) 3.1.0 - In this exercise, you install and configure ICP on Red Hat.

**This course does not include any lecture units and consists of a hands on lab exercise 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 exercise.

The **sandbox environment** for this course uses the Red Hat Linux 7.5 operating system in a virtual environment. It consists of three Virtual Machines (VM) in total. You use these VMs for product installation from scratch. You install ICP 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.

**Some key advantages of this ICP installation exercise**:

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 edition, 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 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

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General information

Delivery method

Self-paced virtual classroom (SPVC)

Course level

ERC 1.0

Product and version

IBM Cloud Private Native 3.1.0

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

Prerequisites

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

Duration

1 day

Skill level

Intermediate

For more information

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

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