OpenShift 4.3 & Cloud Pak Install Guide

Steele Desmond – vSphere 6.5+ Installation with User-Provisioned Infrastructure

# Overview

*This document provides instructions for installing different Cloud Paks on top of OpenShift 4.3, as well as OpenShift 4.3 itself.*

## Goals

* Contribute to the documentation of Cloud Pak and OpenShift installation
* Outline all necessary steps to facilitate automation via Terraform and Ansible
* Contribute to IBM open source with new Terraform scripts and Ansible playbooks
  + Increase automation and ease-of-access for Cloud Paks and OpenShift

## Terminology

Bootstrap Node –

Master / Control Plane Node –

Worker / Computer Node –

## Hardware Requirements

### OpenShift 4.3

Below are the minimum requirements listed by Red Had for an OCP 4.3 cluster.

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Description automatically generated

OpenShift 4.3 Official Documentation

### Cloud Pak for Multicloud Management

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Description automatically generated

IBM Knowledge Center – CP4MCM – January 2020

### Cloud Pak for Applications

# OpenShift 4.3 Installation with vSphere (User-Provisioned Infrastructure)

## Overview

The general process for installing OCP 4.3 is as follows:

1. Gain Red Hat Account / Subscription keys for OCP
2. Provision VMs for the OpenShift Cluster
   1. Using the vSphere GUI and abiding to hardware requirements

## Create Red Hat Developer Account

## Provision VMs on OpenShift

## Resources

[IBM CSPLab GitHub](https://github.com/ibm-cloud-architecture/refarch-privatecloud/blob/master/Install_OCP_4.x.md)  
[Red Hat OpenShift 4.3 Installation Documentation](https://cloud.redhat.com/openshift/install/vsphere/user-provisioned)  
[Red Hat – Installation an OCP cluster on vSphere](https://docs.openshift.com/container-platform/4.3/installing/installing_vsphere/installing-vsphere.html#installation-obtaining-installer_installing-vsphere)

#### Terraform

[VMware vSphere Provider](https://www.terraform.io/docs/providers/vsphere/index.html)