

HDP Certified Administrator (HDPCA)

Certification Overview

Hortonworks has redesigned its certification program to create an industry-recognized certification where individuals prove their Hadoop knowledge by performing actual hands-on tasks on a Hortonworks Data Platform (HDP) cluster, as opposed to answering multiple-choice questions. The HDP Certified Administrator (HDPCA) exam is designed for Hadoop system administrators and operators responsible for installing, configuring and supporting an HPD cluster.

Purpose of the Exam

The purpose of this exam is to provide organizations that use Hadoop with a means of identifying suitably qualified staff to install, configure, secure and troubleshoot a Hortonwork Data Platform cluster using Apache Ambari.

Exam Description

The exam has five main categories of tasks that involve:

- Installation
- Configuration
- Troubleshooting
- High Availability
- Security

The exam is based on the Hortonworks Data Platform 2.3 installed and managed with Ambari 2.1.

Exam Objectives

View the complete list of objectives below, which includes links to the corresponding documentation and/or other resources.

Language

The exam is delivered in English.

Take the Exam Anytime, Anywhere

The HDPCA exam is available from any computer, anywhere, at any time. All you need is a webcam and a good Internet connection.

How to Register

Candidates need to create an account at www.examslocal.com. Once you are registered and logged in, select "Schedule an Exam", and then enter "Hortonworks" in the "Search Here" field to locate and select the HDP Certified Administrator exam. The cost of the exam is \$250 USD.

Duration

2 hours

Description of the Minimally Qualified Candidate

The Minimally Qualified Candidate (MQC) for this certification has hands-on experience installing, configuring, securing and troubleshooting a Hadoop cluster, and can perform the objectives of the HDPCA exam.

Prerequisites

Candidates for the HPDCA exam should be able to perform each of the tasks in the list of exam objectives below. Candidates are also encouraged to attempt the practice exam. Visit www.hortonworks.com/training/class/hdp-certified-administrator-hdpca-exam/ for more details.

Hortonworks University

Hortonworks University is your expert source for Apache Hadoop training and certification. Public and private on-site courses are available for developers, administrators, data analysts and other IT professionals involved in implementing big data solutions. Classes combine presentation material with industry-leading hands-on labs that fully prepare students for real-world Hadoop scenarios.

About Hortonworks

Hortonworks develops, distributes and supports the only 100 percent open source distribution of Apache Hadoop explicitly architected, built and tested for enterprise-grade deployments.

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Santa Clara, CA 95054 USA



HDP Certified Administrator (HDP-CA) Exam Objectives

Candidates for the HPDCA exam should be able to perform each of the tasks below:

Category	Task	Resource(s)
Installation	Configure a local HDP repository	http://docs.hortonworks.com/HDPDocuments/Ambari-2.1.0.0/bk_Installing_HDP_AMB/content/using_a_local_repository.html
	Install ambari-server and ambari-agent	http://docs.hortonworks.com/HDPDocuments/Ambari-2.0.0.0/Ambari_Doc_Suite/ADS_v200.html#ref-f123c19f-f2b8-429f-bdaf-3535df363080 http://docs.hortonworks.com/HDPDocuments/Ambari-2.0.0.0/Ambari_Doc_Suite/ADS_v200.html#ref-848b09cc-db45-4a2c-b8f7-3617987c53f2
	Install HDP using the Ambari install wizard	http://docs.hortonworks.com/HDPDocuments/Ambari-2.1.0.0/bk_Installing_HDP_AMB/content/ch_Deploy_and_Configure_a_HDP_Cluster.html
	Add a new node to an existing cluster	http://docs.hortonworks.com/HDPDocuments/Ambari-2.0.0.0/Ambari_Doc_Suite/ADS_v200.html#ref-d745870f-2b0a-47ad-9307-8c01b440589b
	Decommission a node	http://docs.hortonworks.com/HDPDocuments/HDP2/HDP-2.3.0/bk_Sys_Admin_Guides/content/ch_slave_nodes.html
	Add an HDP service to a cluster using Ambari	http://docs.hortonworks.com/HDPDocuments/Ambari-2.0.0.0/Ambari_Doc_Suite/ADS_v200.html#ref-556d8737-67b1-43da-8331-bccb6ff28ac6
Configuration	Define and deploy a rack topology script	http://docs.hortonworks.com/HDPDocuments/HDP2/HDP-2.3.0/bk_hdfs_admin_tools/content/ch05.html
	Change the configuration of a service using Ambari	http://docs.hortonworks.com/HDPDocuments/HDP2/HDP-2.2.4/index.html
	Configure the Capacity Scheduler	http://docs.hortonworks.com/HDPDocuments/HDP2/HDP-2.3.0/bk_yarn_resource_mgt/content/ch_capacity_scheduler.html
	Configure the location of log files for services	http://docs.hortonworks.com/HDPDocuments/Ambari-2.0.0.0/Ambari_Doc_Suite/ADS_v200.html#ref-a3d954f2-00e6-4f5c-8a3e-f7fca7e566cc
	Create a home directory for a user and configure permissions	http://hadoop.apache.org/docs/current/hadoop-project-dist/hadoop-common/FileSystemShell.html
	Configure the include and exclude DataNode files	http://docs.hortonworks.com/HDPDocuments/HDP2/HDP-2.3.0/bk_Sys_Admin_Guides/content/ch_slave_nodes.html



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System Admin Data Analyst Developer

Troubleshooting	Restart an HDP service	http://docs.hortonworks.com/HDPDocuments/Amba-ri-2.0.0.0/Ambari_Doc_Suite/ADS_v200.html#ref-fc5734c8-1957-4406-8fe8-71a1de0193c1
	View an application's log file	http://docs.hortonworks.com/HDPDocuments/HDP2/HDP-2.1.5/bk_using-apache-hadoop/content/log_files.html http://docs.hortonworks.com/HDPDocuments/HDP2/HDP-2.3.0/bk_yarn_resource_mgt/content/ch_log_aggregation.html
	Configure and manage alerts	http://hortonworks.com/blog/announcing-apache-ambari-2-0/#alerts
	Troubleshoot a failed job	http://docs.hortonworks.com/HDPDocuments/HDP2/HDP-2.1.5/bk_using-apache-hadoop/content/mrv2_troubleshooting.html
High Availability	Configure NameNode HA	http://docs.hortonworks.com/HDPDocuments/HDP2/HDP-2.3.0/bk_hadoop-ha/content/ch_HA-NameNode.html
	Configure ResourceManager HA	http://docs.hortonworks.com/HDPDocuments/HDP2/HDP-2.3.0/bk_hadoop-ha/content/ch_HA-ResourceManager.html
	Copy data between two clusters using distcp	http://docs.hortonworks.com/HDPDocuments/HDP2/HDP-2.3.0/bk_Sys_Admin_Guides/content/ch_distcp.html
	Create a snapshot of an HDFS directory	http://hadoop.apache.org/docs/current/hadoop-project-dist/hadoop-hdfs/HdfsSnapshots.html
	Recover a snapshot	http://hadoop.apache.org/docs/current/hadoop-project-dist/hadoop-hdfs/HdfsSnapshots.html
	Configure HiveServer2 HA	http://docs.hortonworks.com/HDPDocuments/HDP2/HDP-2.3.0/bk_hadoop-ha/content/ch_HA-HiveServer2.html
Security	Install and configure Knox	http://docs.hortonworks.com/HDPDocuments/HDP2/HDP-2.3.0/bk_Knox_Gateway_Admin_Guide/content/ch01.html
	Install and configure Ranger	http://docs.hortonworks.com/HDPDocuments/HDP2/HDP-2.3.0/bk_Ranger_Install_Guide/content/ch_overview_ranger_ambari_install.html
	Configure HDFS ACLs	http://docs.hortonworks.com/HDPDocuments/HDP2/HDP-2.3.0/bk_hdfs_admin_tools/content/ch01.html
	Configure Hadoop for Kerberos	http://docs.hortonworks.com/HDPDocuments/Amba-ri-2.0.0.0/Ambari_Doc_Suite/ADS_v200.html#ref-1097012d-c999-4a81-960b-7473ed584db3



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