



## 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 2.2 installed and managed with Ambari 2.0.0.

### 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](http://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/](http://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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## HDP Certified Developer (HDPD) Exam Objectives

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

Category	Task	Resource(s)
Installation	Configure a local HDP repository	<a href="http://docs.hortonworks.com/HDPDocuments/Ambari-2.0.0.0/Ambari_Doc_Suite/ADS_v200.html#ref-77f16e7a-119e-424f-b5fb-34862272647a">http://docs.hortonworks.com/HDPDocuments/Ambari-2.0.0.0/Ambari_Doc_Suite/ADS_v200.html#ref-77f16e7a-119e-424f-b5fb-34862272647a</a>
	Install ambari-server and ambari-agent	<a href="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-f123c19f-f2b8-429f-bdaf-3535df363080</a>  <a href="http://docs.hortonworks.com/HDPDocuments/Ambari-2.0.0.0/Ambari_Doc_Suite/ADS_v200.html#ref-848b09cc-db45-4a2c-b8f7-3617987c53f2">http://docs.hortonworks.com/HDPDocuments/Ambari-2.0.0.0/Ambari_Doc_Suite/ADS_v200.html#ref-848b09cc-db45-4a2c-b8f7-3617987c53f2</a>
	Install HDP using the Ambari install wizard	<a href="http://docs.hortonworks.com/HDPDocuments/Ambari-2.0.0.0/Ambari_Doc_Suite/ADS_v200.html#Installing_HDP_Using_Ambari">http://docs.hortonworks.com/HDPDocuments/Ambari-2.0.0.0/Ambari_Doc_Suite/ADS_v200.html#Installing_HDP_Using_Ambari</a>
	Add a new node to an existing cluster	<a href="http://docs.hortonworks.com/HDPDocuments/Ambari-2.0.0.0/Ambari_Doc_Suite/ADS_v200.html#ref-d745870f-2b0a-47ad-9307-8c01b440589b">http://docs.hortonworks.com/HDPDocuments/Ambari-2.0.0.0/Ambari_Doc_Suite/ADS_v200.html#ref-d745870f-2b0a-47ad-9307-8c01b440589b</a>
	Decommission a node	<a href="http://docs.hortonworks.com/HDPDocuments/HDP2/HDP-2.2.4/HDP_Sys_Admin_v224/index.html#decommissioning_slave_nodes">http://docs.hortonworks.com/HDPDocuments/HDP2/HDP-2.2.4/HDP_Sys_Admin_v224/index.html#decommissioning_slave_nodes</a>
	Add an HDP service to a cluster using Ambari	<a href="http://docs.hortonworks.com/HDPDocuments/Ambari-2.0.0.0/Ambari_Doc_Suite/ADS_v200.html#ref-556d8737-67b1-43da-8331-bccb6ff28ac6">http://docs.hortonworks.com/HDPDocuments/Ambari-2.0.0.0/Ambari_Doc_Suite/ADS_v200.html#ref-556d8737-67b1-43da-8331-bccb6ff28ac6</a>

Category	Task	Resource(s)
Configuration	Define and deploy a rack topology script	<a href="http://docs.hortonworks.com/HDPDocuments/HDP2/HDP-2.2.4/HDFS_Admin_Tools_v224/index.html#configuring-rack-awareness-on-hdp">http://docs.hortonworks.com/HDPDocuments/HDP2/HDP-2.2.4/HDFS_Admin_Tools_v224/index.html#configuring-rack-awareness-on-hdp</a>
	Change the configuration of a service using Ambari	<a href="http://docs.hortonworks.com/HDPDocuments/Ambari-2.0.0.0/Ambari_Doc_Suite/ADS_v200.html#ref-a3d954f2-00e6-4f5c-8a3e-f7fca7e566cc">http://docs.hortonworks.com/HDPDocuments/Ambari-2.0.0.0/Ambari_Doc_Suite/ADS_v200.html#ref-a3d954f2-00e6-4f5c-8a3e-f7fca7e566cc</a>
	Configure the Capacity Scheduler	<a href="http://docs.hortonworks.com/HDPDocuments/HDP2/HDP-2.2.4/YARN_RM_v224/index.html#capacity_scheduler">http://docs.hortonworks.com/HDPDocuments/HDP2/HDP-2.2.4/YARN_RM_v224/index.html#capacity_scheduler</a>
	Configure the location of log files for services	<a href="http://docs.hortonworks.com/HDPDocuments/Ambari-2.0.0.0/Ambari_Doc_Suite/ADS_v200.html#ref-">http://docs.hortonworks.com/HDPDocuments/Ambari-2.0.0.0/Ambari_Doc_Suite/ADS_v200.html#ref-</a>



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		<a href="#">a3d954f2-00e6-4f5c-8a3e-f7fca7e566cc</a>
	Create a home directory for a user and configure permissions	<a href="http://hadoop.apache.org/docs/current/hadoop-project-dist/hadoop-common/FileSystemShell.html">http://hadoop.apache.org/docs/current/hadoop-project-dist/hadoop-common/FileSystemShell.html</a>
	Configure the include and exclude DataNode files	<a href="http://docs.hortonworks.com/HDPDocuments/HDP2/HDP-2.2.4/HDP_Sys_Admin_v224/index.html#decommissioning_slave_nodes">http://docs.hortonworks.com/HDPDocuments/HDP2/HDP-2.2.4/HDP_Sys_Admin_v224/index.html#decommissioning_slave_nodes</a>

Category	Task	Resource(s)
<b>Troubleshooting</b>	Restart an HDP service	<a href="http://docs.hortonworks.com/HDPDocuments/Ambari-2.0.0/Ambari_Doc_Suite/ADS_v200.html#ref-fc5734c8-1957-4406-8fe8-71a1de0193c1">http://docs.hortonworks.com/HDPDocuments/Ambari-2.0.0/Ambari_Doc_Suite/ADS_v200.html#ref-fc5734c8-1957-4406-8fe8-71a1de0193c1</a>
	View an application's log file	<a href="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-2.1.5/bk_using-apache-hadoop/content/log_files.html</a>  <a href="http://docs.hortonworks.com/HDPDocuments/HDP2/HDP-2.2.4/YARN_RM_v224/index.html#log_aggregation">http://docs.hortonworks.com/HDPDocuments/HDP2/HDP-2.2.4/YARN_RM_v224/index.html#log_aggregation</a>
	Configure and manage alerts	<a href="http://hortonworks.com/blog/announcing-apache-ambari-2-0/#alerts">http://hortonworks.com/blog/announcing-apache-ambari-2-0/#alerts</a>
	Troubleshoot a failed job	<a href="http://docs.hortonworks.com/HDPDocuments/HDP2/HDP-2.1.5/bk_using-apache-hadoop/content/mrv2_troubleshooting.html">http://docs.hortonworks.com/HDPDocuments/HDP2/HDP-2.1.5/bk_using-apache-hadoop/content/mrv2_troubleshooting.html</a>

Category	Task	Resource(s)
<b>High Availability</b>	Configure NameNode HA	<a href="http://docs.hortonworks.com/HDPDocuments/HDP2/HDP-2.2.4/Hadoop_HA_v224/index.html#namenode_high_availability">http://docs.hortonworks.com/HDPDocuments/HDP2/HDP-2.2.4/Hadoop_HA_v224/index.html#namenode_high_availability</a>
	Configure ResourceManager HA	<a href="http://docs.hortonworks.com/HDPDocuments/HDP2/HDP-2.2.4/Hadoop_HA_v224/index.html#resourcemanager_high_availability">http://docs.hortonworks.com/HDPDocuments/HDP2/HDP-2.2.4/Hadoop_HA_v224/index.html#resourcemanager_high_availability</a>
	Copy data between two clusters using distcp	<a href="http://docs.hortonworks.com/HDPDocuments/HDP2/HDP-2.2.4/HDP_Sys_Admin_v224/index.html#distcp">http://docs.hortonworks.com/HDPDocuments/HDP2/HDP-2.2.4/HDP_Sys_Admin_v224/index.html#distcp</a>
	Create a snapshot of an HDFS directory	<a href="http://hadoop.apache.org/docs/current/hadoop-project-dist/hadoop-hdfs/HdfsSnapshots.html">http://hadoop.apache.org/docs/current/hadoop-project-dist/hadoop-hdfs/HdfsSnapshots.html</a>
	Recover a snapshot	<a href="http://hadoop.apache.org/docs/current/hadoop-project-dist/hadoop-hdfs/HdfsSnapshots.html">http://hadoop.apache.org/docs/current/hadoop-project-dist/hadoop-hdfs/HdfsSnapshots.html</a>
	Configure HiveServer2 HA	<a href="http://docs.hortonworks.com/HDPDocuments/HDP2/HDP-2.2.4/Hadoop_HA_v224/index.html#hiveserver2_high_availability">http://docs.hortonworks.com/HDPDocuments/HDP2/HDP-2.2.4/Hadoop_HA_v224/index.html#hiveserver2_high_availability</a>



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Category	Task	Resource(s)
Security	Install and configure Knox	<a href="http://docs.hortonworks.com/HDPDocuments/HDP2/HDP-2.2.4/Knox_Gateway_Admin_v224/index.html">http://docs.hortonworks.com/HDPDocuments/HDP2/HDP-2.2.4/Knox_Gateway_Admin_v224/index.html</a>
	Install and configure Ranger	<a href="http://docs.hortonworks.com/HDPDocuments/HDP2/HDP-2.2.4/Ranger_Install_Over_Ambari_v224/Ranger_Install_Over_Ambari_v224.pdf">http://docs.hortonworks.com/HDPDocuments/HDP2/HDP-2.2.4/Ranger_Install_Over_Ambari_v224/Ranger_Install_Over_Ambari_v224.pdf</a>
	Configure HDFS ACLs	<a href="http://docs.hortonworks.com/HDPDocuments/HDP2/HDP-2.2.4/HDFS_Admin_Tools_v224/index.html#acls-on-hdfs">http://docs.hortonworks.com/HDPDocuments/HDP2/HDP-2.2.4/HDFS_Admin_Tools_v224/index.html#acls-on-hdfs</a>
	Configure Hadoop for Kerberos	<a href="http://docs.hortonworks.com/HDPDocuments/Ambari-2.0.0.0/Ambari_Doc_Suite/ADS_v200.html#ref-1097012d-c999-4a81-960b-7473ed584db3">http://docs.hortonworks.com/HDPDocuments/Ambari-2.0.0.0/Ambari_Doc_Suite/ADS_v200.html#ref-1097012d-c999-4a81-960b-7473ed584db3</a>



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