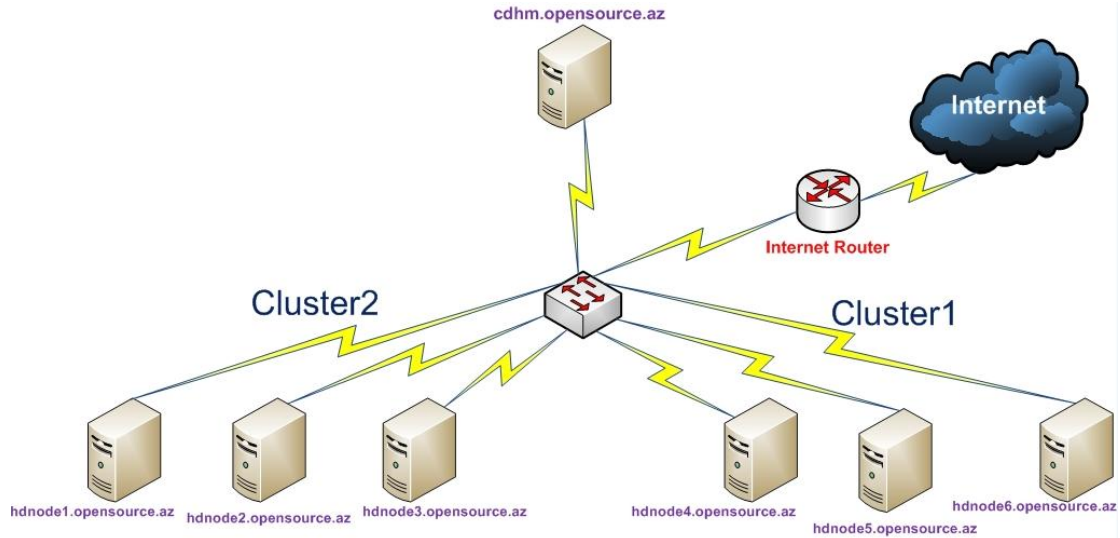


Claudera Installation Guidelines

Claudera uzerinde 7 node-lu klaster ashaqidaki shekildeki kimi olacaq:



Butun node-lar ucun `/etc/hosts` faylinin strukturu

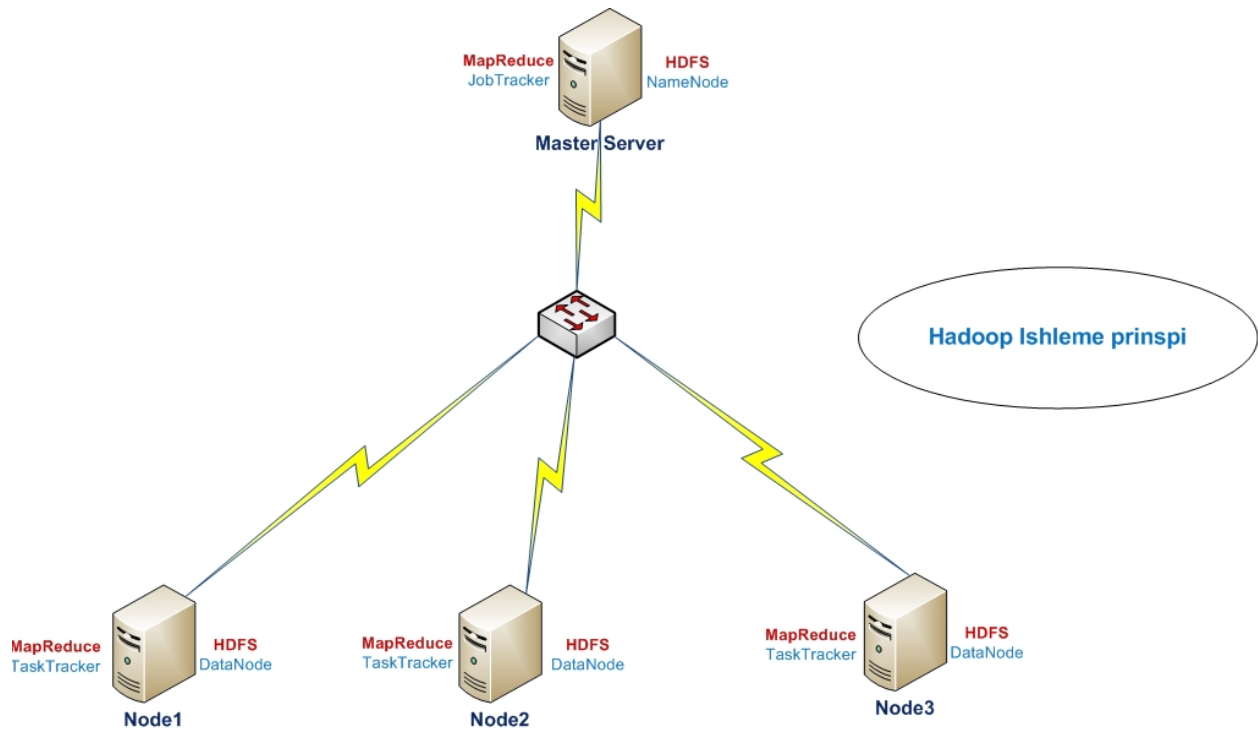
```
127.0.0.1 localhost localhost.localdomain localhost4
x.x.x.x cdhm.opensource.az cdhm
x.x.x.x hdnode1.opensource.az hdnode1
x.x.x.x hdnode2.opensource.az hdnode2
x.x.x.x hdnode3.opensource.az hdnode3
x.x.x.x hdnode4.opensource.az hdnode4
x.x.x.x hdnode5.opensource.az hdnode5
x.x.x.x hdnode6.opensource.az hdnode6
```

`/etc/ntp.conf` fayli butun node-larda susmaya gore qurashdirilib.

```
service ntpd start
chkconfig --level 0123456 on

/etc/selinux/config - SELinux-u dayandiririq
SELINUX=disabled
system-config-firewall-tui - Firewall-u
sondururuk
```

3 node-lu klaster mentiği ashaqidaki shekildeki kimi olacaq:



Artiq klasterimizi ishe salaq

Yuxarida gorduyumuz ishlerden sonra CLI-da ishimiz demek olar ki, qalmir. ve Muraciet edirik WEB serverimize <http://chm.opensource.az:7180> . Susmaya gore olan login ve shifre (**admin, admin**)-dir.

Login

Username:

Password:

Remember me on this computer.

Daxil olan kimi saq teref yuxarida **admin -> change** password duymesine sixib shifreni deyishirik ki, bashqa shexsler daxil ola bilmesin:

Change Password

Your current password:

Choose a new password:

Re-enter new password:

Sonra cixish edib, deyishdiyimiz shifre ile yeniden daxil oluruq ve **Cloudera Standart** secirik ve **Continue** duymesine sixiriq (Shekildeki kimi):

Welcome to Cloudera. Which edition do you want to deploy?

Upgrading to **Cloudera Enterprise** provides important features that help you manage and monitor your Hadoop clusters in mission-critical environments.

	Cloudera Standard	Cloudera Enterprise Trial	Cloudera Enterprise
License	Free	60 Days Post trial period, the product will continue to function as Cloudera Standard . Your cluster and your data will remain unaffected .	Annual Subscription(s) <input type="button" value="Upload License"/>
Node Limit	Unlimited	Unlimited	Unlimited
CDH	✓	✓	✓
Core Cloudera Manager Features	✓	✓	✓
Advanced Cloudera Manager Features (click link below for details)		✓	✓
Backup & Disaster Recovery †		✓	✓
Cloudera Navigator †		✓	✓
Cloudera Support			✓

† Purchased as separate products.

For full list of features available in **Cloudera Standard** and **Cloudera Enterprise**, [click here](#).

Novbeti sehifede yenede **Continue** duymesine sixiriq:

Thank you for choosing Cloudera Manager and Cloudera's Distribution Including Apache Hadoop (CDH).

This installer will enable you to later choose packages for the Services below (there may be some license implications).

- Apache Hadoop (Common, HDFS, MapReduce, YARN)
- Apache HBase
- Apache ZooKeeper
- Apache Oozie
- Apache Hive
- Hue (Apache licensed)
- Apache Flume
- Cloudera Impala (Apache licensed)
- Apache Sqoop
- Cloudera Search (Apache licensed)

You are using Cloudera Manager to install and configure your system. You can learn more about Cloudera Manager by clicking on the **Support** menu above.

Node-larimizi shekildeki kimi, ad yada IP unvanla vergulle ayiraraq elave edirik ve **Search** duymesine sixiriq. Eger shebeke araliqi yazmaq istesek **10.10.10.[2-254]** qaydasi ile yaza bilerik. Bu sintaksis tak shebekeni ehate edecek (Shekilde nodelarimiz gosterilir):

Specify hosts for your CDH cluster installation.

Cloudera recommends including Cloudera Manager server's host because it is often used for the Cloudera Management Service, and because this will enable health monitoring for that host.

Hint: Search for hostnames and/or IP addresses using [patterns](#).

hdn1.opensource.az, hdn2.opensource.az, hdn3.opensource.az

SSH Port:

Acilan pencerede sol terefde butun node-lari isharelyirik ve **Continue** duymesine sixiriq (Shekilde gosterilir):

Specify hosts for your CDH cluster installation.

Cloudera recommends including Cloudera Manager server's host because it is often used for the Cloudera Management Service, and because this will enable health monitoring for that host.

Hint: Search for hostnames and/or IP addresses using [patterns](#).

3 hosts scanned, 3 running SSH.

<input checked="" type="checkbox"/>	Expanded Query	Hostname (FQDN)	IP Address	Currently Managed	Result
<input checked="" type="checkbox"/>	hdn1.opensource.az	hdn1.opensource.az		No	✓ Host ready: 2 ms response time.
<input checked="" type="checkbox"/>	hdn2.opensource.az	hdn2.opensource.az		No	✓ Host ready: 4 ms response time.
<input checked="" type="checkbox"/>	hdn3.opensource.az	hdn3.opensource.az		No	✓ Host ready: 5 ms response time.

Novbeti sehifeni gorunduyu kimi secirik ve **Continue** duymesine sixiriq:

Cluster Installation

Select Repository

Cloudera Manager Parcels are the easiest way for Cloudera Manager to manage the software on your cluster, by automating the deployment and upgrade of service binaries. Electing not to use parcels will require you to manually upgrade packages on all hosts in your cluster when software updates are available, and will prevent you from using Cloudera Manager's rolling upgrade capabilities.

Choose Method:

Use Packages

Use Parcels (Recommended)

More Options

+ Add

Example

CDH-4.7.1-1.cdh4.7.1.p0.47

SOLR-1.3.0-1.cdh4.5.0.p0.9

None

Note: Solr is supported only on CDH 4.3 or later deployments.

IMPALA-2.1.0-1.impala2.0.0.p0.1995

None

Note: Impala is supported only on CDH 4.1 or later deployments.

Select the specific release of the Cloudera Manager Agent you want to install on your hosts.

Matched release for this Cloudera Manager server

Custom Repository

Back 1 2 3 4 5 Continue

Sonra CHM serverimizde generasiya elediyimiz SSH 1 cut acarini **id_rsa** key acarini Windows desktopumuza nusxeleyirik ve ordan da shekilde gosterildiye kimi [Choose file](#) duymesini sixib servere yukleyirik ki, node-larimize qoshulanda oz oturduyu **PUB** acarla danishmaq ucun bu key faylindan istifade etsin. Sonra **Continue** duymesine sixiriq:

Cluster Installation

Provide SSH login credentials.

Root access to your hosts is required to install the Cloudera packages. This installer will connect to your hosts via SSH and log in either directly as root or as another user with password-less sudo/pbrun privileges to become root.

Login to all hosts as: root

Another User:

You may connect via password or public-key authentication for the user selected above.

Authentication Method: All hosts accept same password

All hosts accept same private key

Private Key File:

Enter Passphrase:

Confirm Passphrase:

SSH Port:

Number of simultaneous installations: (Running a large number of installations at once can consume large amounts of network bandwidth and other system resources)

Back 1 2 3 4 5 Continue

Yuklenme ashaqidaki shekildeki kimi gedirse demek ki, ishimiz uqurla gedir:

Cluster Installation

Installation in progress.



0 of 3 host(s) completed successfully: [Abort Installation](#)

Hostname	IP Address	Progress	Status
hdn1.opensource.az		<div style="width: 100%;"><div style="width: 100%;"></div></div>	⌂ Refreshing package metadata... Details
hdn2.opensource.az		<div style="width: 100%;"><div style="width: 100%;"></div></div>	⌂ Refreshing package metadata... Details
hdn3.opensource.az		<div style="width: 100%;"><div style="width: 100%;"></div></div>	⌂ Refreshing package metadata... Details

Butun node-larda uqurla yuklenme bitdikden sonra uqurlu netice ashaqidaki kimi olacaq([Continue](#) duymesini sixib davam edirik):

Cluster Installation

Installation completed successfully.



3 of 3 host(s) completed successfully.

Hostname	IP Address	Progress	Status
hdn1.opensource.az		<div style="width: 100%;"><div style="width: 100%;"></div></div>	✓ Installation completed successfully. Details
hdn2.opensource.az		<div style="width: 100%;"><div style="width: 100%;"></div></div>	✓ Installation completed successfully. Details
hdn3.opensource.az		<div style="width: 100%;"><div style="width: 100%;"></div></div>	✓ Installation completed successfully. Details

Ardınca secdiyimiz parseller yuklenmeye bashlayacaq ve uqurlu netice shekildeki kimi olacaq([Continue](#) duymesine sixiriq):

Cluster Installation

Installing Selected Parcels

The selected parcels are being downloaded and installed on all the hosts in the cluster.

CDH 4.7.1-1.cd4.7.1.p0.47

100%

SOLR 1.3.0-1.cd4.5.0.p0.9

100%

IMPALA 2.1.0-1.impala2.0.0.p0.1995

100%

Back

1 2 3 4 5

Continue

Node-larımızda yoxlanish gedecek ve uqurlu yoxlanish ashaqidaki shekildeki kimi olacaq(Continue duymesini sixib davam edirik):

Cluster Installation

Inspect hosts for correctness

Validations

- ✓ Inspector ran on all 3 hosts.
- ✓ Individual hosts resolved their own hostnames correctly.
- ✓ No errors were found while looking for conflicting init scripts.
- ✓ No errors were found while checking /etc/hosts.
- ✓ All hosts resolved localhost to 127.0.0.1.
- ✓ All hosts checked resolved each other's hostnames correctly.
- ✓ Host clocks are approximately in sync (within ten minutes).
- ✓ Host time zones are consistent across the cluster.
- ✓ No users or groups are missing.
- ✓ No kernel versions that are known to be bad are running.
- ✓ No performance concerns with Transparent Huge Pages settings.
- ✓ 0 hosts are running CDH3 and 3 hosts are running CDH4.
- ✓ All checked hosts are running the same version of components.
- ✓ All managed hosts have consistent versions of Java.
- ✓ All checked Cloudera Management Daemons versions are consistent with the server.
- ✓ All checked Cloudera Management Agents versions are consistent with the server.

Version Summary

Group 1 (CDH4)			
Hosts			
hdn1.opensource.az, hdn2.opensource.az, hdn3.opensource.az			
Component	Version	Release	CDH Version
Impala	2.1.0	1.impala2.0.0.p0.15	Not applicable
Lily HBase Indexer (CDH4 only)	1.3+26	1.cd4.5.0.p0.14	Not applicable
Solr (CDH4 only)	4.4.0+181	1.cd4.5.0.p0.14	Not applicable

Back

1 2 3 4 5

Continue

Yuklemek ucun butun servisleri secirik ve continue duymesine sixiriq:

Choose the CDH4 services that you want to install on your cluster.

Choose a combination of services to install.

Core Hadoop

HDFS, MapReduce, ZooKeeper, Oozie, Hive, and Hue

Core with Real-Time Delivery

HDFS, MapReduce, ZooKeeper, HBase, Oozie, Hive, and Hue

Core with Real-Time Query

HDFS, MapReduce, ZooKeeper, Impala, Oozie, Hive, and Hue

All Services

HDFS, MapReduce, ZooKeeper, HBase, Impala, Oozie, Hive, Hue and Sqoop.

Custom Services

Choose your own services. Services required by chosen services must also be selected. Note that Flume, Solr and Key-Value Store Indexer services can be added after your initial cluster has been set up.

This wizard will also install the **Cloudera Management Services**. These are a set of components that enable monitoring, reporting, events, and alerts; these components require databases to store information, which will be configured on the next page.

Inspect Role Assignments

Continue

Acilan sehifede verilenler bazasi secimi susmaya gore olan baza qalir ve **Test Connection** duymesine sixiriq ki, qoshulmani yoxlayaq, sonra **Continue** duymesine sixib davam edirik:

Database Setup

On this page you configure and test database connections. If using custom databases, create the databases first according to the **Installing and Configuring an External Database** section of the [Installation Guide](#).

When using the Embedded Database, passwords are auto generated. Please copy them down.

- Use Embedded Database**
 Use Custom Databases

Hive

✓ Skipped. Will create database in later step.

Database Host Name:	Database Type:	Database Name :	Username:	Password:
chm.opensource.az:7432	PostgreSQL	hive	hive	OxFIwI9F3N

Activity Monitor

✓ Successful

Currently assigned to run on **hdn1.opensource.az**.

Database Host Name:	Database Type:	Database Name :	Username:	Password:
chm.opensource.az:7432	PostgreSQL	amon	amon	AxbZLDnifG

Service Monitor

✓ Successful

Currently assigned to run on **hdn1.opensource.az**.

Database Host Name:	Database Type:	Database Name :	Username:	Password:
chm.opensource.az:7432	PostgreSQL	smon	smon	LtsO48mmNd

Host Monitor

✓ Successful

Currently assigned to run on **hdn1.opensource.az**.

Database Host Name:	Database Type:	Database Name :	Username:	Password:
chm.opensource.az:7432	PostgreSQL	hmon	hmon	YM9gxM4B1b

← Back

Test Connection

Continue

Novbeti sehifede her shey susmaya gore qalir ve **Continue** duymesine sixiriq. Klaster servisleri ishe salinmaqa bashlayir. Uqurlu netice ashaqidaki shekildeki kimi olmalidir:

Starting your cluster services.

Completed 23 of 23 steps.	
✓	Waiting for ZooKeeper Service to initialize Finished waiting
✓	Starting ZooKeeper Service Service started successfully.
✓	Checking if the name directories of the NameNode are empty. Formatting HDFS only if empty. Successfully formatted NameNode.
✓	Starting HDFS Service Service started successfully.
✓	Creating HDFS /tmp directory Successfully created HDFS directory /tmp.
✓	Creating HBase root directory Successfully created HBase root directory.
✓	Starting HBase Service Service started successfully.
✓	Starting MapReduce Service Service started successfully.
✓	Creating Hive Metastore Database Created Hive Metastore Database.
✓	Creating Hive Metastore Database Tables Created Hive Metastore Database Tables successfully.
✓	Creating Hive user directory Successfully created Hive user directory.
✓	Creating Hive warehouse directory Successfully created Hive warehouse directory.
✓	Starting Hive Service Service started successfully.
✓	Creating Oozie database Oozie database created successfully.
✓	Installing Oozie ShareLib in HDFS Successfully installed Oozie ShareLib
✓	Starting Oozie Service Service started successfully.
✓	Creating Sqoop user directory Successfully created Sqoop user directory.
✓	Starting Sqoop Service Service started successfully.
✓	Creating Impala user directory Successfully created Impala user directory.
✓	Starting Impala Service Service started successfully.
✓	Starting Hue Service Service started successfully.
✓	Starting Cloudera Management Services Service started successfully.
✓	Deploying Client Configuration Successfully deployed all client configurations

[Continue](#)

Neticede tebrik sehifesi cap edilir ki, ishimiz uqurla bitdi:

Congratulations!

The Hadoop services are installed, configured, and running on your cluster.

Sonda Klasterimiz oz servisleri ile ashaqidaki shekildeki kimi olmalidir:

Status

Cluster 1 - CDH4

- Hosts
 - hbase1
 - hdfs1
 - hive1
 - hue1
 - impala1
 - mapreduce1
 - oozie1
 - sqoop1
 - zookeeper1
- Cloudera Management Services
 - mgmt1

