

**Ambari provides an end-to-end management and monitoring solution for your HDP cluster. Using the Ambari Web UI and REST APIs, you can deploy, operate, manage configuration changes, and monitor services for all nodes in your cluster from a central point.**

After starting the Ambari service, open Ambari Web using a web browser and log In to Apache Ambari


- Point your browser to <http://172.26.60.16:8080> , where ambari server is installed
- Log in to the Ambari Server using the default user name/password: admin/admin.
- From the Ambari Welcome page, choose Launch Install Wizard.

## Welcome to Apache Ambari

Provision a cluster, manage who can access the cluster, and customize views for Ambari users.

### Create a Cluster


Use the Install Wizard to select services and configure your cluster



**Launch Install Wizard**

### Manage Users + Groups


Manage the users and groups that can access Ambari



**Users** **Groups**

### Deploy Views

Create view instances and grant permissions



**Views**

## 1. Give an name to the cluster

The screenshot shows the Ambari web interface in a Mozilla Firefox browser. The address bar displays the URL `172.26.60.16:8080/#/installer/step0`. The page title is "Ambari - Mozilla Firefox". The browser's address bar shows the URL `172.26.60.16:8080/#/installer/step0`. The Ambari logo and "admin" user profile are visible in the top navigation bar.

The main content area is titled "Get Started" and contains the following text:

This wizard will walk you through the cluster installation process. First, start by naming your new cluster.

Name your cluster [Learn more](#)

[Next](#)

The left sidebar, titled "CLUSTER INSTALL WIZARD", lists the following steps:

- Get Started
- Select Stack
- Install Options
- Confirm Hosts
- Choose Services
- Assign Masters
- Assign Slaves and Clients
- Customize Services
- Review
- Install, Start and Test
- Summary

At the bottom of the page, there is a license notice:

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[See third-party tools/resources that Ambari uses and their respective authors](#)

The bottom of the screenshot shows the Windows taskbar with various application icons and the system clock displaying 10:12 PM on 5/27/2016.

Select HDP stack version and manually enter the path of our local repository for Ubuntu 14 ( <http://172.26.60.16/hdp> )

Ambari - Cluster Install Wizard - Mozilla Firefox

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172.26.60.16:8080/#/installer/step1

Install Options  
Confirm Hosts  
Choose Services  
Assign Masters  
Review  
Install, Start and Test  
Summary

### Stacks

☒ HDP 2.4  
☐ HDP 2.3  
☐ HDP 2.2

Customize the repository Base URLs for downloading the Stack software packages. If your hosts do not have access to the internet, you will have to create a local mirror of the Stack repository that is accessible by all hosts and use those Base URLs here.

**Important:** When using local mirror repositories, you only need to provide Base URLs for the Operating System you are installing for your Stack. Uncheck all other repositories.

OS	Name	Base URL
<input checked="" type="checkbox"/> debian7	HDP-2.4	<input type="text" value="http://public-repo-1.hortonworks.com/HDP/debian7/2.x/updates/2.4"/>
	HDP-UTILS-1.1.0.20	<input type="text" value="http://public-repo-1.hortonworks.com/HDP-UTILS-1.1.0.20/repos/d"/>
<input type="checkbox"/> redhat6	HDP-2.4	<input type="text" value="http://public-repo-1.hortonworks.com/HDP/centos6/2.x/updates/2.4"/>
	HDP-UTILS-1.1.0.20	<input type="text" value="http://public-repo-1.hortonworks.com/HDP-UTILS-1.1.0.20/repos/c"/>
<input type="checkbox"/> redhat7	HDP-2.4	<input type="text" value="http://public-repo-1.hortonworks.com/HDP/centos7/2.x/updates/2.4"/>
	HDP-UTILS-1.1.0.20	<input type="text" value="http://public-repo-1.hortonworks.com/HDP-UTILS-1.1.0.20/repos/c"/>
<input type="checkbox"/> suse11	HDP-2.4	<input type="text" value="http://public-repo-1.hortonworks.com/HDP/suse11sp3/2.x/updates/"/>
	HDP-UTILS-1.1.0.20	<input type="text" value="http://public-repo-1.hortonworks.com/HDP-UTILS-1.1.0.20/repos/s"/>
<input type="checkbox"/> ubuntu12	HDP-2.4	<input type="text" value="http://public-repo-1.hortonworks.com/HDP/ubuntu12/2.x/updates/2"/>
	HDP-UTILS-1.1.0.20	<input type="text" value="http://public-repo-1.hortonworks.com/HDP-UTILS-1.1.0.20/repos/u"/>
<input checked="" type="checkbox"/> ubuntu14	HDP-2.4	<input type="text" value="http://172.26.60.16/hdp/HDP/ubuntu14/2.x/updates/2.4.2.0/"/> Undo
	HDP-UTILS-1.1.0.20	<input type="text" value="http://172.26.60.16/hdp/HDP-UTILS-1.1.0.20/repos/ubuntu14/"/> Undo

☐ Skip Repository Base URL validation (Advanced) ?

Firefox automatically sends some data to Mozilla so that we can improve your experience.

Choose What I Share

Search the web and Windows

Google ... Inbox - s... File Expl... Adobe R... temp - ... Word 20... Comput... Multi Pu... root@i... VMware ... Comma... Xmanag...

10:25 PM 5/27/2016

Enter the hostnames ( FQDN) of all box which will be part of our cluster and ftp or copy the id\_rsa key for root which was created during the creation of password less ssh.

Ambari - Cluster Install Wizard - Mozilla Firefox

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172.26.60.16:8080/#/installer/step2

Search

☆

⬇

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☰

Ambari

admin

CLUSTER INSTALL WIZARD

[Get Started](#)

[Select Stack](#)

[Install Options](#)

[Confirm Hosts](#)

[Choose Services](#)

[Assign Masters](#)

[Assign Slaves and Clients](#)

[Customize Services](#)

[Review](#)

[Install, Start and Test](#)

[Summary](#)

## Install Options

Enter the list of hosts to be included in the cluster and provide your SSH key.

### Target Hosts

Enter a list of hosts using the Fully Qualified Domain Name (FQDN), one per line. Or use [Pattern Expressions](#)

```
impetus-i0161.impetus.co.in
impetus-i0163.impetus.co.in
impetus-i0203.impetus.co.in
impetus-i0095.impetus.co.in
```

### Host Registration Information

☒ Provide your [SSH Private Key](#) to automatically register hosts

No file selected.

```
-----BEGIN RSA PRIVATE KEY-----
MIIEowIBAAKCAQEAtYQR006/2n0x63ZPMghHHJ1SSRevyT
/WELSunukgATsATmGS
Tt4pseWYqoMcyBbmxx+C
```

SSH User Account

☐ Perform [manual registration](#) on hosts and do not use SSH

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Choose What I Share x

Search the web and Windows

📅

📊

🌐 Google ...

📧 Inbox - s...

🌐

📁 File Expl...

📁

📁 Adobe R...

📁 temp - ...

📄 Word 20...

📁 Comput...

📁 Multi Pu...

📧 root@i...

🖥 VMware ...

📁 Comma...

📁 Xmanag...

⬆

🖨

🔍

🗨

11:02 PM

5/27/2016

## Summary

Next -

See third-party tools/resources that Ambari uses and their respective authors

Choose What I Share

You might get issue multiple time for any one host or all... Check the error by clicking on the failed link and try to resolve errors mentioned.





If you get this error “Transparent Huge Pages Issue” then you can ignore this on Ubuntu 14 and continue.

The screenshot shows the Ambari Cluster Install Wizard in a Mozilla Firefox browser window. The address bar shows the URL `172.26.60.16:8080/#/installer/step3`. The left sidebar contains the "CLUSTER INSTALL WIZARD" menu with options: Get Started, Select Stack, Install Options, Confirm Hosts (selected), Choose Services, Assign Masters, Assign Slaves and Clients, Customize Services, Review, Install, Start and Test, and Summary.

The main content area displays the "Host Checks" dialog box. It states: "Host Checks found 1 issues on 3 hosts. After manually resolving the issues, click **Rerun Checks**. To manually resolve issues on **each host** run the HostCleanup script (Python 2.6 or greater is required):"

```
python /usr/lib/python2.6/site-packages/ambari_agent/HostCleanup.py --silent --skip=users
```

Below the code, there are two notes:

- Note:** Clean up of Firewall and Transparent Huge Page issues are not supported by the HostCleanup script.
- Note:** To clean up in interactive mode, remove `--silent` option. To clean up all resources, including `users`, remove `--skip=users` option. Use `--help` for a list of available options.

The "Hosts" dropdown is set to "All Hosts". A "Show Report" link is available. The list of issues shows:

- Transparent Huge Pages Issues (1) - Warning icon
- JDK Issues (0) - Green checkmark
- Disk Issues (0) - Green checkmark
- Repository Issues (0) - Green checkmark
- Firewall Issues (0) - Green checkmark
- Process Issues (0) - Green checkmark
- Package Issues (0) - Green checkmark

At the bottom of the dialog are buttons for "Rerun Checks" and "Close".

In the background, a table shows the status of hosts:

Status	Action
Failed	<a href="#">Remove</a>
Success	<a href="#">Remove</a>
Failed	<a href="#">Remove</a>
Failed	<a href="#">Remove</a>

The bottom of the screen shows the Windows taskbar with various applications open, including Google Chrome, Outlook, Word 2013, and VMware Workstation. The system clock shows 11:09 PM on 5/27/2016.

## CLUSTER INSTALL WIZARD

[Get Started](#)

Select Stack

## Install Options

### Confirm Hosts

### Choose Services

### Assign Masters

### Assign Slaves and Clients

### Customize Services

## Review


### Install, Start and Test

## Summary

## Confirm Hosts

Registering your hosts.

Please confirm the host list and remove any hosts that you do not want to include in the cluster.

 Remove Selected

Show: **All (4)** | [Installing \(0\)](#) | [Registering \(0\)](#) | [Success \(4\)](#) | [Fail \(0\)](#)

<input type="checkbox"/>	Host	Progress	Status	Action
<input type="checkbox"/>	impetus-i0161.impetus.co.in	<div></div>	Success	<a href="#">Remove</a>
<input type="checkbox"/>	impetus-i0163.impetus.co.in	<div></div>	Success	<a href="#">Remove</a>
<input type="checkbox"/>	impetus-i0203.impetus.co.in	<div></div>	Success	<a href="#">Remove</a>
<input type="checkbox"/>	impetus-i0095.impetus.co.in	<div></div>	Success	<a href="#">Remove</a>

Show: 25
1 - 4 of 4

Some warnings were encountered while performing checks against the 4 registered hosts above [Click here to see the warnings.](#)

[← Back](#)

Next →

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Choose What I Share

## **Choose Services**

Based on the Stack chosen during Select Stack, you are presented with the choice of Services to install into the cluster. HDP Stack comprises many services. You may choose to install any other available services now, or to add services later. The install wizard selects all available services for installation by default. Choose or clear individual checkboxes to define a set of services to install now. I selected the following service based on our case study.

After selecting the services to install now, choose Next.

Ambari - Cluster Install Wizard - Mozilla Firefox

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172.26.60.16:8080/#installer/step4

Search

Get Started  
Select Stack  
Install Options  
Confirm Hosts  
**Choose Services**  
Assign Masters  
Assign Slaves and Clients  
Customize Services  
Review  
Install, Start and Test  
Summary

Choose which services you want to install on your cluster.

<input type="checkbox"/> Service	Version	Description
<input checked="" type="checkbox"/> HDFS	2.7.1.2.4	Apache Hadoop Distributed File System
<input checked="" type="checkbox"/> YARN + MapReduce2	2.7.1.2.4	Apache Hadoop NextGen MapReduce (YARN)
<input checked="" type="checkbox"/> Tez	0.7.0.2.4	Tez is the next generation Hadoop Query Processing framework written on top of YARN.
<input checked="" type="checkbox"/> Hive	1.2.1.2.4	Data warehouse system for ad-hoc queries & analysis of large datasets and table & storage management service
<input checked="" type="checkbox"/> HBase	1.1.2.2.4	A Non-relational distributed database, plus Phoenix, a high performance SQL layer for low latency applications.
<input checked="" type="checkbox"/> Pig	0.15.0.2.4	Scripting platform for analyzing large datasets
<input type="checkbox"/> Sqoop	1.4.6.2.4	Tool for transferring bulk data between Apache Hadoop and structured data stores such as relational databases
<input checked="" type="checkbox"/> Oozie	4.2.0.2.4	System for workflow coordination and execution of Apache Hadoop jobs. This also includes the installation of the optional Oozie Web Console which relies on and will install the <a href="#">ExtJS</a> Library.
<input checked="" type="checkbox"/> ZooKeeper	3.4.6.2.4	Centralized service which provides highly reliable distributed coordination
<input type="checkbox"/> Falcon	0.6.1.2.4	Data management and processing platform
<input type="checkbox"/> Storm	0.10.0.2.4	Apache Hadoop Stream processing framework
<input checked="" type="checkbox"/> Flume	1.5.2.2.4	A distributed service for collecting, aggregating, and moving large amounts of streaming data into HDFS
<input type="checkbox"/> Accumulo	1.7.0.2.4	Robust, scalable, high performance distributed key/value store.
<input checked="" type="checkbox"/> Ambari Metrics	0.1.0	A system for metrics collection that provides storage and retrieval capability for metrics collected from the cluster
<input type="checkbox"/> Atlas	0.5.0.2.4	Atlas Metadata and Governance platform
<input type="checkbox"/> Kafka	0.9.0.2.4	A high-throughput distributed messaging system

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Search the web and Windows

Google C... Inbox - s... Word 2013 Compute... Multi Pu... root@im... VMware ... Comman... Xmanage...

Choose What I Share

11:40 PM 5/27/2016

Index of /hdp/HDP-UTILS... Ambari - Cluster Insta... 172.26.60.16:8080/#/installer/step4

<input type="checkbox"/>	Sqoop	1.4.6.2.4	Tool for transferring bulk data between Apache Hadoop and structured data stores such as relational databases
<input checked="" type="checkbox"/>	Oozie	4.2.0.2.4	System for workflow coordination and execution of Apache Hadoop jobs. This also includes the installation of the optional Oozie Web Console which relies on and will install the <a href="#">ExtJS</a> Library.
<input checked="" type="checkbox"/>	ZooKeeper	3.4.6.2.4	Centralized service which provides highly reliable distributed coordination
<input type="checkbox"/>	Falcon	0.6.1.2.4	Data management and processing platform
<input type="checkbox"/>	Storm	0.10.0.2.4	Apache Hadoop Stream processing framework
<input checked="" type="checkbox"/>	Flume	1.5.2.2.4	A distributed service for collecting, aggregating, and moving large amounts of streaming data into HDFS
<input type="checkbox"/>	Accumulo	1.7.0.2.4	Robust, scalable, high performance distributed key/value store.
<input checked="" type="checkbox"/>	Ambari Metrics	0.1.0	A system for metrics collection that provides storage and retrieval capability for metrics collected from the cluster
<input type="checkbox"/>	Atlas	0.5.0.2.4	Atlas Metadata and Governance platform
<input type="checkbox"/>	Kafka	0.9.0.2.4	A high-throughput distributed messaging system
<input type="checkbox"/>	Knox	0.6.0.2.4	Provides a single point of authentication and access for Apache Hadoop services in a cluster
<input type="checkbox"/>	Mahout	0.9.0.2.4	Project of the Apache Software Foundation to produce free implementations of distributed or otherwise scalable machine learning algorithms focused primarily in the areas of collaborative filtering, clustering and classification
<input checked="" type="checkbox"/>	Slider	0.80.0.2.4	A framework for deploying, managing and monitoring existing distributed applications on YARN.
<input checked="" type="checkbox"/>	SmartSense	1.2.2.0-460	SmartSense - Hortonworks SmartSense Tool (HST) helps quickly gather configuration, metrics, logs from common HDP services that aids to quickly troubleshoot support cases and receive cluster-specific recommendations.
<input checked="" type="checkbox"/>	Spark	1.6.x.2.4	Apache Spark is a fast and general engine for large-scale data processing.

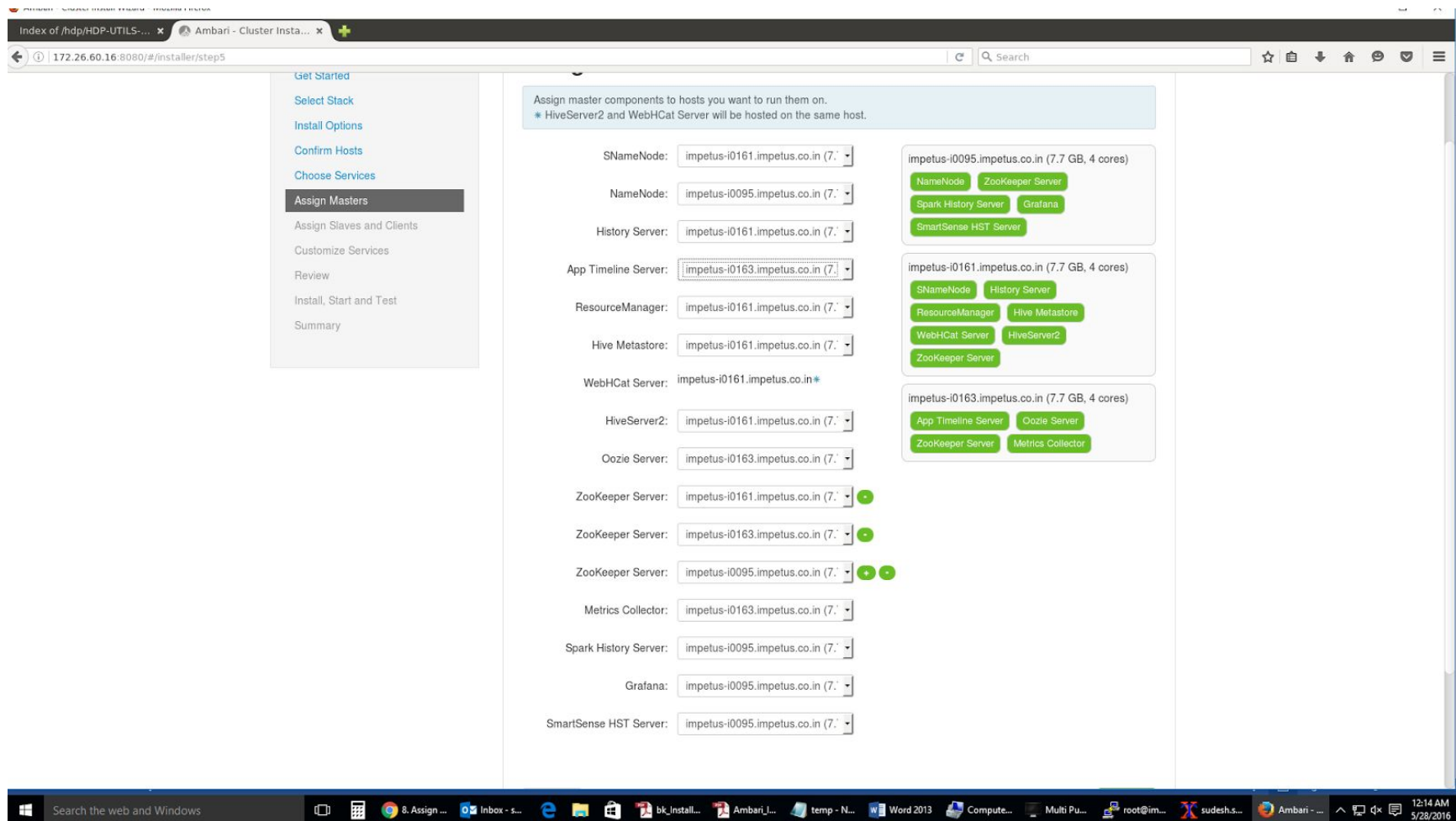
[- Back](#) [Next ->](#)

Search the web and Windows PRTG Traf... Inbox - s... Word 2013 Compute... Multi Pu... root@im... sudes... Ambari - ... 12:07 AM 5/28/2016

## Assign Masters

The Ambari install wizard assigns the master components for selected services to appropriate hosts in your cluster and displays the assignments in Assign Masters. The left column shows services and current hosts. The right column shows current master component assignments by host, indicating the number of CPU cores and amount of RAM installed on each host.

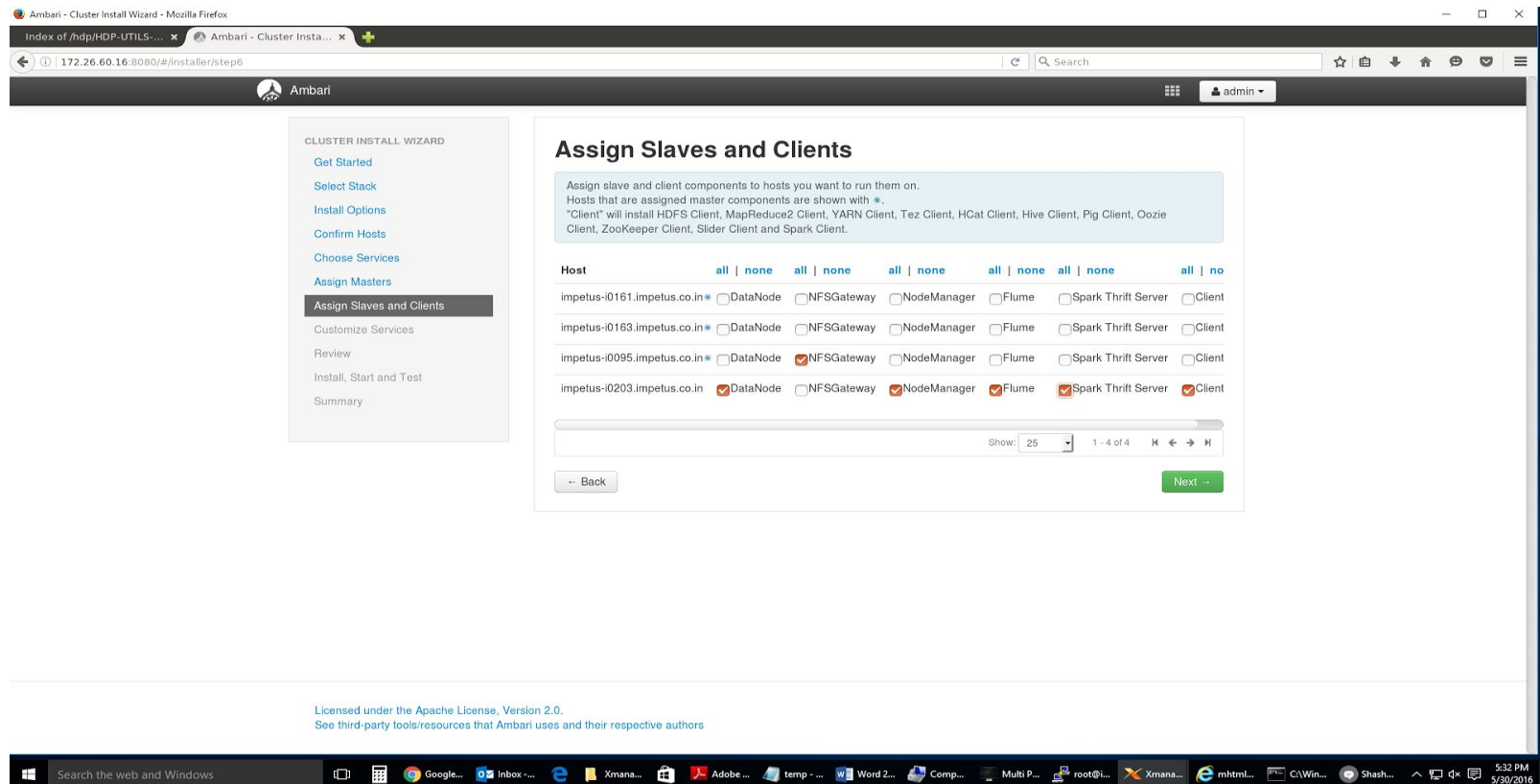
1. To change the host assignment for a service, select a host name from the drop-down menu for that service.
2. To remove a ZooKeeper instance, click the green minus icon next to the host address you want to remove.
3. When you are satisfied with the assignments, choose [Next](#).
4. I moved some components to other server from default ones so that one server is not loaded with more components.



## Assign Slaves and Clients

The Ambari installation wizard assigns the slave components (DataNodes, NodeManagers, and RegionServers) to appropriate hosts in your cluster. It also attempts to select hosts for installing the appropriate set of clients.

1. Use **all** or **none** to select all of the hosts in the column or none of the hosts, respectively.
2. If a host has an asterisk next to it, that host is also running one or more master components. Hover your mouse over the asterisk to see which master components are on that host.
3. Fine-tune your selections by using the checkboxes next to specific hosts.
4. When you are satisfied with your assignments, choose Next.



## Customize Services

The Customize Services step presents you with a set of tabs that let you review and modify your HDP cluster setup. The wizard attempts to set reasonable defaults for each of the options. You are **strongly encouraged** to review these settings as your requirements might be slightly different.



Browse through each service tab and by hovering your cursor over each of the properties, you can see a brief description of what the property does. The number of service tabs shown depends on the services you decided to install in your cluster. **Any tab that requires input shows a red badge with the number of properties that need attention.** Select each service tab that displays a red badge number and enter the appropriate information.

### Directories

The choice of directories where HDP will store information is critical. Ambari will attempt to choose reasonable defaults based on the mount points available in your environment but you are **strongly encouraged** to review the default directory settings recommended by Ambari. In particular, confirm directories such as /tmp and /var are **not** being used for HDFS NameNode directories and DataNode directories under the **HDFS** tab.

### Passwords

You must provide database passwords for the Hive and Oozie services and the Master Secret for Knox. Using Hive as an example, choose the **Hive** tab and expand the Advanced section. In Database Password field marked in red, provide a password, then retype to confirm it.

### Note

By default, Ambari will install a new MySQL instance for the Hive Metastore and install a Derby instance for Oozie. If you plan to use existing databases for MySQL, Oracle or PostgreSQL, modify these options before proceeding. Refer to Using Non-Default Databases for more information on using existing databases.

### Important

Using the **Microsoft SQL Server** or **SQL Anywhere** database options are not supported.

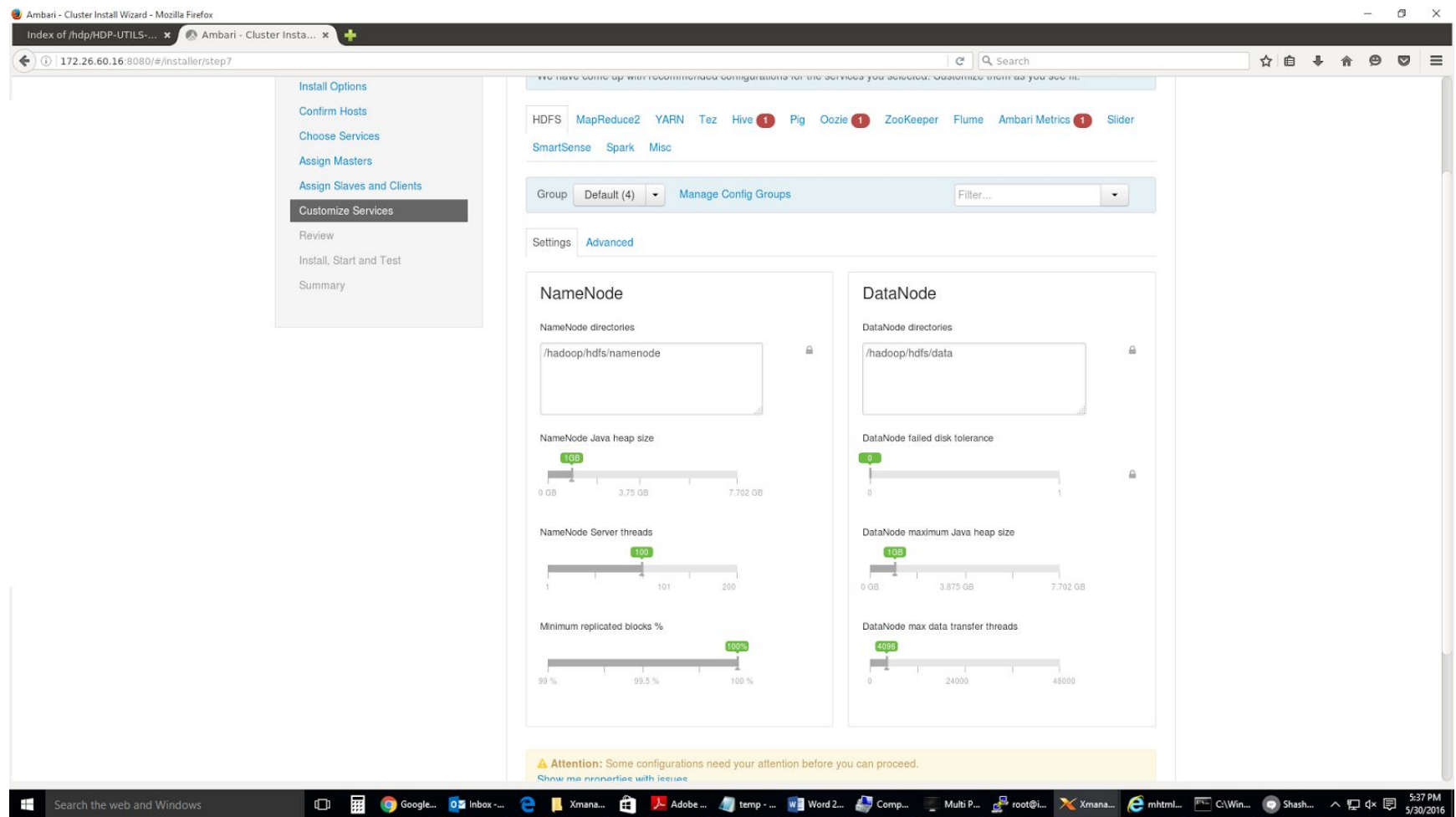
### Service Account Users and Groups

The service account users and groups are available under the **Misc** tab. These are the **operating system accounts the service components will run as**. If these users do not exist on your hosts, Ambari will automatically create the users and groups locally on the hosts. If these users already exist, Ambari will use those accounts.

Depending on how your environment is configured, you might not allow groupmod or usermod operations. If this is the case, you **must** be sure all users and groups are already created and **be sure to** select the "Skip group modifications" option on the **Misc** tab. This tells Ambari to not modify group membership for the service users.

Refer to the Ambari Reference Guide Customizing HDP Services for more information on the service account users and groups that are needed for HDP.

After you complete Customizing Services, choose [Next](#).



Gave Hive Database password as hive/hive

Ambari - Cluster Install Wizard - Mozilla Firefox

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172.26.60.16:8080/#/installer/step7

Ambari admin

CLUSTER INSTALL WIZARD

- Get Started
- Select Stack
- Install Options
- Confirm Hosts
- Choose Services
- Assign Masters
- Assign Slaves and Clients
- Customize Services**
- Review
- Install, Start and Test
- Summary

## Customize Services

We have come up with recommended configurations for the services you selected. Customize them as you see fit.

HDFS MapReduce2 YARN Tez Hive Pig Oozie 1 ZooKeeper Flume Ambari Metrics 1 Slider SmartSense Spark Misc

Group: Default (4) Manage Config Groups Filter...

Settings Advanced

Hive Metastore

Database Password: [password] [password]

⚠ Attention: Some configurations need your attention before you can proceed.  
Showing properties with issues. [Show all properties](#)

Back Next

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Search the web and Windows

Google... Inbox... Xmana... Adobe... temp - ... Word 2... Comp... Multi P... root@i... Xmana... mhtml... C:\Win... Shash... 5:40 PM 5/30/2016

Gave oozie database password as oozie/oozie

Ambari - Cluster Install Wizard - Mozilla Firefox

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172.26.60.16:8080/#/installer/step7

Ambari admin

CLUSTER INSTALL WIZARD

- Get Started
- Select Stack
- Install Options
- Confirm Hosts
- Choose Services
- Assign Masters
- Assign Slaves and Clients
- Customize Services**
- Review
- Install, Start and Test
- Summary

## Customize Services

We have come up with recommended configurations for the services you selected. Customize them as you see fit.

HDFS MapReduce2 YARN Tez Hive Pig Oozie ZooKeeper Flume Ambari Metrics 1 Slider SmartSense Spark Misc

Group: Default (4) Manage Config Groups Filter...

Oozie Server

Database Password: [password] [password]

⚠ Attention: Some configurations need your attention before you can proceed. Showing properties with issues. [Show all properties](#)

Back Next

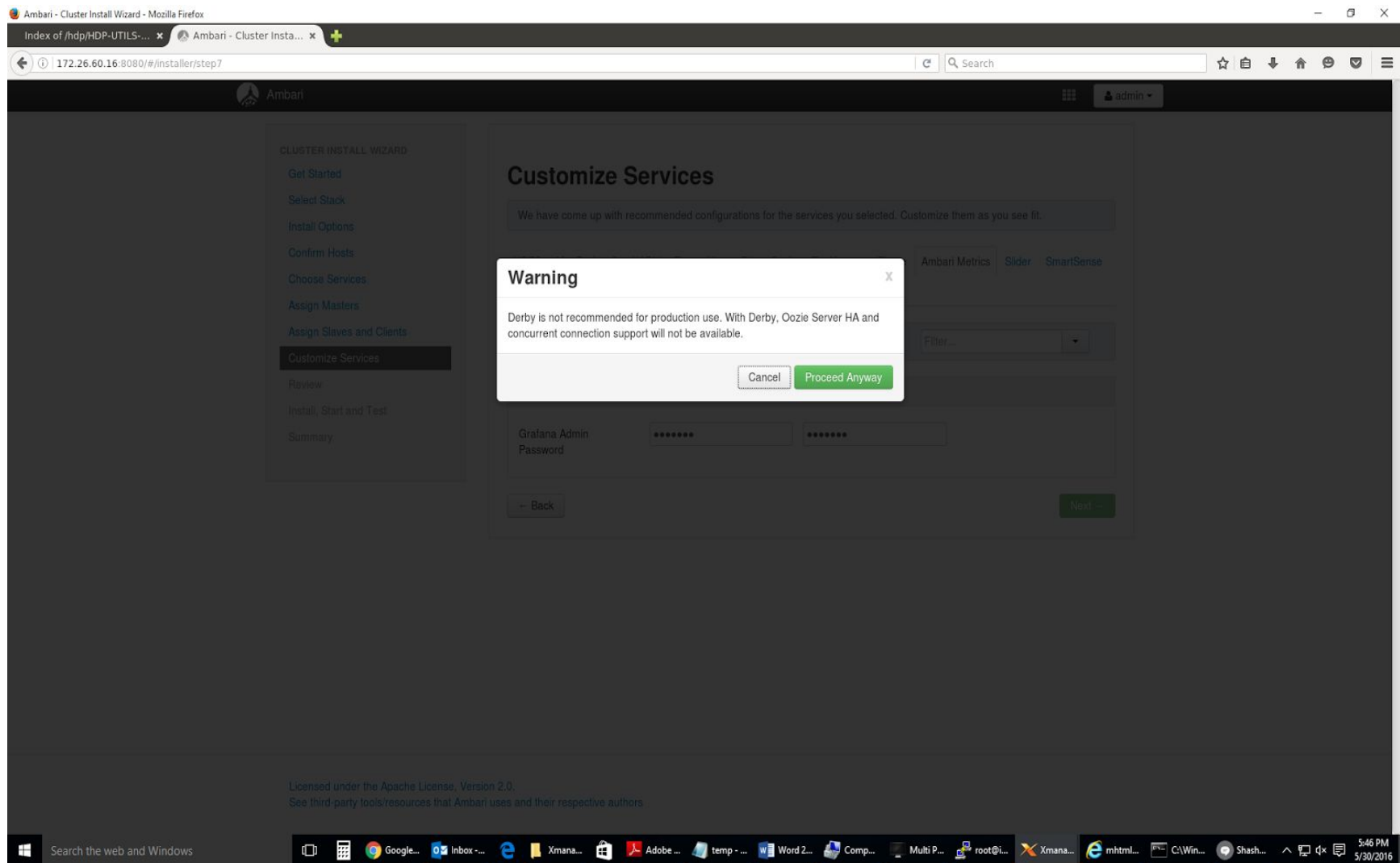
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Search the web and Windows

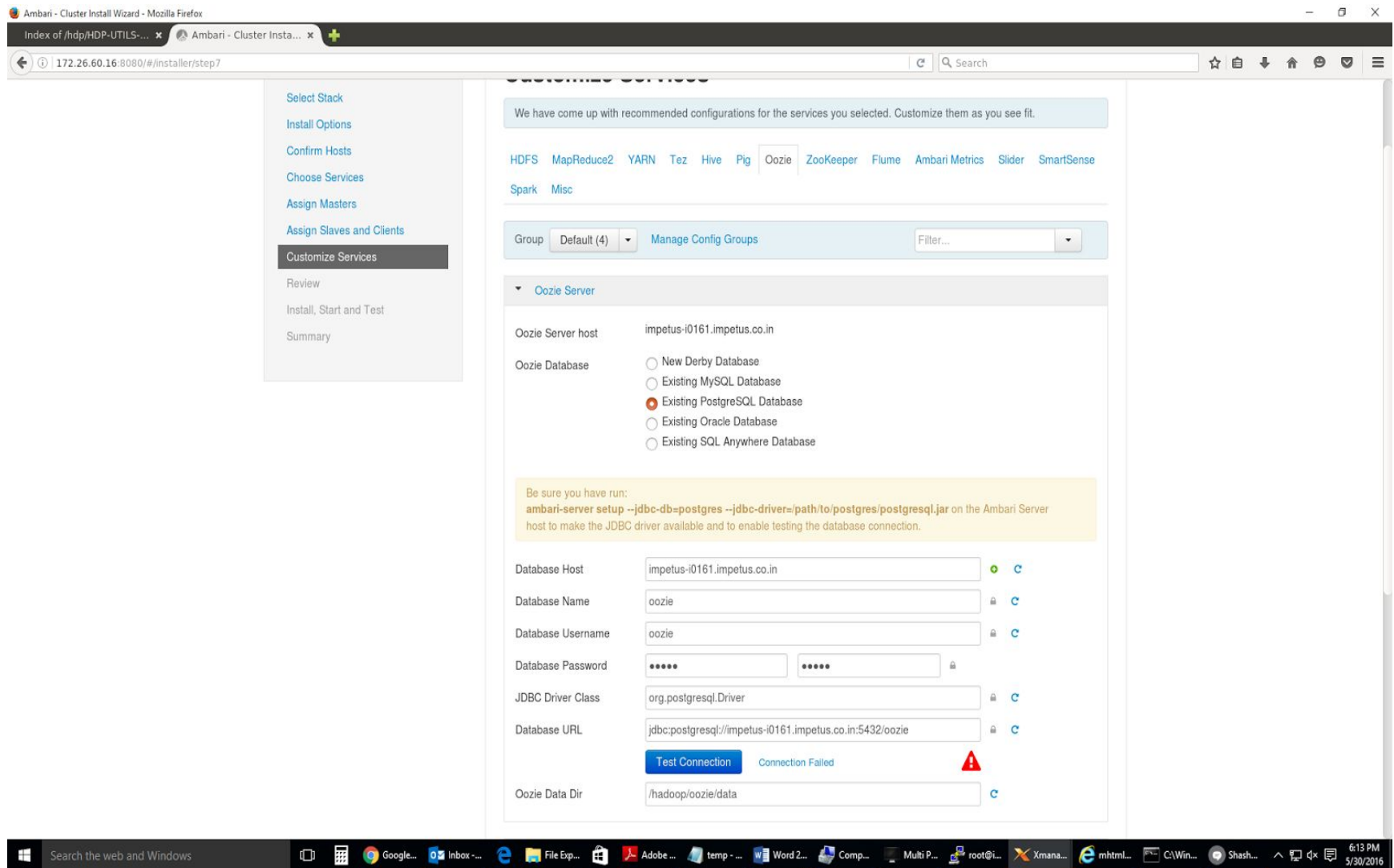
Google... Inbox... Xmana... Adobe... temp... Word 2... Comp... Multi P... root@i... Xmana... mhtml... C:\Win... Shash... 5:42 PM 5/30/2016

Gave Grafna Admin password as grafana/grafana





If you get the above warning then go back to customize service and select Oozie → under Oozie server details Select “ existing PostgreSQL database “ and then create a oozie database on the server where it is pointing out. In this case we use impetus-i0161



Now follow the below process to create a psql database for oozie. Run the following command at a terminal prompt on impetus-i0161

PostgreSQL setup for use with Oozie:

Execute the following command:

```
# ambari-server setup --jdbc-db=postgres --jdbc-driver=/usr/lib/ambari-server/postgresql-9.3-1101-jdbc4.jar
```

Create a user for Oozie and grant it permissions using the PostgreSQL database admin utility:

```
# sudo su - postgres
```

```
postgres@impetus-i0161:~$ echo "CREATE DATABASE oozie"| psql -U postgres
```

```
postgres@impetus-i0161:~$ echo "CREATE USER oozie WITH PASSWORD 'oozie';" | psql -U postgres
```

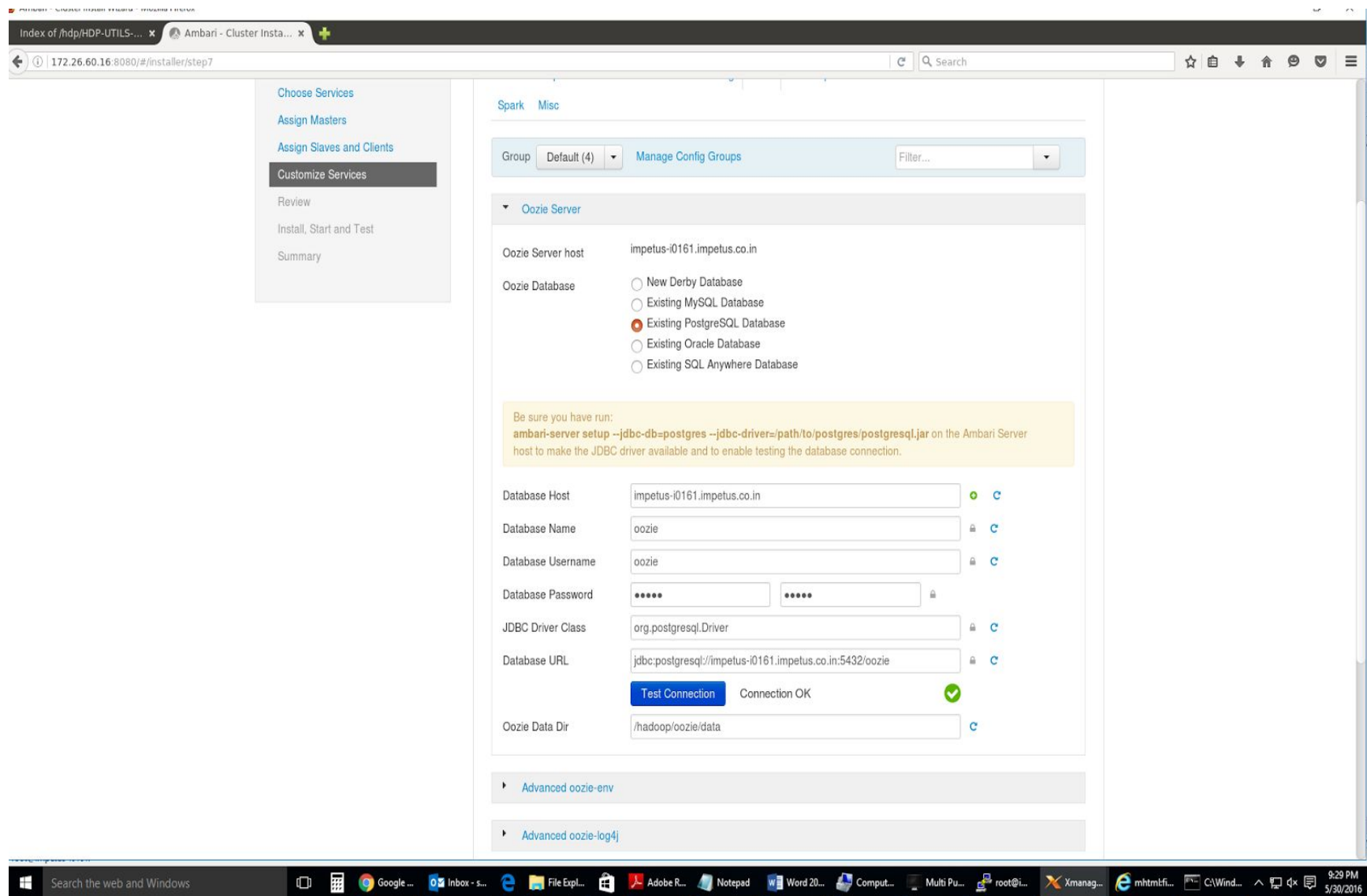
```
postgres@impetus-i0161:~$ echo "GRANT ALL PRIVILEGES ON DATABASE oozie TO oozie;" | psql -U postgres
```

To test this connection run the below command on terminal. It should prompt for oozie password and should connect to database.

```
postgres@impetus-i0161:~$ psql -h impetus-i0161.impetus.co.in -d oozie -U oozie -p 5432
```

Test it again on ambari GUI





After Review click on Deploy

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172.26.60.16:8080/#installer/step8

Search

Ambari

admin

CLUSTER INSTALL WIZARD

Get Started

Select Stack

Install Options

Confirm Hosts

Choose Services

Assign Masters

Assign Slaves and Clients

Customize Services

Review

Install, Start and Test

Summary

Review

Please review the configuration before installation

redhat7 (HDP-2.4):  
http://public-repo-1.hortonworks.com/HDP/centos7/2.x/updates/2.4.2.0

redhat7 (HDP-UTILS-1.1.0.20):  
http://public-repo-1.hortonworks.com/HDP-UTILS-1.1.0.20/repos/centos7

suse11 (HDP-2.4):  
http://public-repo-1.hortonworks.com/HDP/suse11sp3/2.x/updates/2.4.2.0

suse11 (HDP-UTILS-1.1.0.20):  
http://public-repo-1.hortonworks.com/HDP-UTILS-1.1.0.20/repos/suse11sp3

ubuntu12 (HDP-2.4):  
http://public-repo-1.hortonworks.com/HDP/ubuntu12/2.x/updates/2.4.2.0

ubuntu12 (HDP-UTILS-1.1.0.20):  
http://public-repo-1.hortonworks.com/HDP-UTILS-1.1.0.20/repos/ubuntu12

ubuntu14 (HDP-2.4):  
http://172.26.60.16/hdp/HDP/ubuntu14/2.x/updates/2.4.2.0/

ubuntu14 (HDP-UTILS-1.1.0.20):  
http://172.26.60.16/hdp/HDP-UTILS-1.1.0.20/repos/ubuntu14/

Services:

HDFS

DataNode : 1 host

NameNode : imoetus-i0095.imoetus.co.in

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Deploy

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172.26.60.16:8080/#/installer/step8

Ambari

admin

CLUSTER INSTALL WIZARD

Get Started

Select Stack

Install Options

Confirm Hosts

Choose Services

Assign Masters

Assign Slaves and Clients

Customize Services

**Review**

Install, Start and Test

Summary

Review

Please review the configuration before installation

Services:

**HDFS**  
DataNode : 1 host  
NameNode : impetus-i0095.impetus.co.in  
NFSGateway : 1 host  
SNameNode : impetus-i0161.impetus.co.in

**YARN + MapReduce2**  
App Timeline Server : impetus-i0163.impetus.co.in  
NodeManager : 1 host  
ResourceManager : impetus-i0161.impetus.co.in

**Tez**  
Clients : 1 host

**Hive**  
Metastore : impetus-i0161.impetus.co.in  
HiveServer2 : impetus-i0161.impetus.co.in  
WebHCat Server : impetus-i0161.impetus.co.in  
Database : MySQL (New MySQL Database)

**Pig**  
Clients : 1 host

**Oozie**  
Server : impetus-i0161.impetus.co.in  
Database :

**ZooKeeper**

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Ambari

admin

CLUSTER INSTALL WIZARD

[Get Started](#)

[Select Stack](#)

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[Confirm Hosts](#)

[Choose Services](#)

[Assign Masters](#)

[Assign Slaves and Clients](#)

[Customize Services](#)

**Review**

[Install, Start and Test](#)

[Summary](#)

## Review

Please review the configuration before installation

Metastore : impetus-i0161.impetus.co.in  
HiveServer2 : impetus-i0161.impetus.co.in  
WebHCat Server : impetus-i0161.impetus.co.in  
Database : MySQL (New MySQL Database)

**Pig**  
Clients : 1 host

**Oozie**  
Server : impetus-i0161.impetus.co.in  
Database :

**ZooKeeper**  
Server : 3 hosts

**Flume**  
Flume : 1 host

**Ambari Metrics**  
Metrics Collector : impetus-i0163.impetus.co.in  
Grafana : impetus-i0095.impetus.co.in

**Slider**  
Clients : 1 host

**SmartSense**  
HST Server : impetus-i0095.impetus.co.in

**Spark**  
History Server : impetus-i0095.impetus.co.in  
Thrift Server : 1 host

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## Deployment in progress

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172.26.60.16:8080/#/installer/step9

Ambari admin

### CLUSTER INSTALL WIZARD

- Get Started
- Select Stack
- Install Options
- Confirm Hosts
- Choose Services
- Assign Masters
- Assign Slaves and Clients
- Customize Services
- Review
- Install, Start and Test**
- Summary

## Install, Start and Test

Please wait while the selected services are installed and started.

4 % overall

Show: All (4) | In Progress (4) | Warning (0) | Success (0) | Fail (0)

Host	Status	Message
impetus-i0161.impetus.co.in	4%	Installing HDFS Client
impetus-i0163.impetus.co.in	5%	Installing App Timeline Server
impetus-i0203.impetus.co.in	4%	Installing DataNode
impetus-i0095.impetus.co.in	4%	Installing HDFS Client

4 of 4 hosts showing - [Show All](#)

Show: 25 1 - 4 of 4

[Next](#)

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172.26.60.16:8080/#/installer/step9

Search

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Ambari

admin ▾

CLUSTER INSTALL WIZARD

Get Started

Select Stack

Install Options

Confirm Hosts

Choose Services

Assign Masters

Assign Slaves and Clients

Customize Services

Review

**Install, Start and Test**

Summary

## Install, Start and Test

Please wait while the selected services are installed and started.

16 % overall

Show: All (4) | In Progress (4) | Warning (0) | Success (0) | Fail (0)

Host	Status	Message
impetus-i0161.impetus.co.in	<div><div></div>15%</div>	Installing Metrics Monitor
impetus-i0163.impetus.co.in	<div><div></div>20%</div>	Installing Metrics Collector
impetus-i0203.impetus.co.in	<div><div></div>16%</div>	Installing Metrics Monitor
impetus-i0095.impetus.co.in	<div><div></div>14%</div>	Installing Grafana

4 of 4 hosts showing - [Show All](#)

Show: 25 1 - 4 of 4 ⏪ ⏩ ⏴ ⏵

Next →

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Adobe R...

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Xmanag...

mhtml:f...

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Ambari - Cluster Install Wizard - Mozilla Firefox

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172.26.60.16:8080/#/installer/step9

Ambari admin

### CLUSTER INSTALL WIZARD

- Get Started
- Select Stack
- Install Options
- Confirm Hosts
- Choose Services
- Assign Masters
- Assign Slaves and Clients
- Customize Services
- Review
- Install, Start and Test**
- Summary

## Install, Start and Test

Please wait while the selected services are installed and started.

100 % overall

[Retry](#) Show: [All \(4\)](#) | [In Progress \(0\)](#) | [Warning \(3\)](#) | [Success \(0\)](#) | [Fail \(1\)](#)

Host	Status	Message
impetus-i0161.impetus.co.in	100%	Warnings encountered
impetus-i0163.impetus.co.in	100%	Failures encountered
impetus-i0203.impetus.co.in	100%	Warnings encountered
impetus-i0095.impetus.co.in	100%	Warnings encountered

4 of 4 hosts showing - [Show All](#) Show: 25 1 - 4 of 4

Failed to install/start the services.

[Next -->](#)

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Click on the failure and resolve the issue. In my case installation of one of the component has failed due to timeout. So I just re-tried again.

Ambari - Cluster Install Wizard - Mozilla Firefox

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172.26.60.16:8080/#/installer/step9

Search

admin

### impetus-i0163.impetus.co.in

Tasks Show: All

- ✓ App Timeline Server Install
- ✓ HDFS Client Install
- ✓ History Server Install
- ✓ SmartSense HST Agent Install
- ! Metrics Collector Install
- Metrics Monitor Install
- Tez Client Install
- ZooKeeper Server Install

OK

Next

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172.26.60.16:8080/#/installer/step10

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CLUSTER INSTALL WIZARD

Get Started

Select Stack

Install Options

Confirm Hosts

Choose Services

Assign Masters

Assign Slaves and Clients

Customize Services

Review

Install, Start and Test

Summary

## Summary

Here is the summary of the install process.

The cluster consists of 4 hosts

Installed and started services successfully on 4 new hosts

Master services installed

- NameNode installed on impetus-i0095.impetus.co.in
- SNameNode installed on impetus-i0161.impetus.co.in
- History Server installed on impetus-i0163.impetus.co.in
- ResourceManager installed on impetus-i0161.impetus.co.in
- HiveServer2 installed on impetus-i0161.impetus.co.in
- Oozie Server installed on impetus-i0161.impetus.co.in

All services started

All tests passed

Install and start completed in 20 minutes and 34 seconds

Complete →

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Ambari - EETeamJ1 - Mozilla Firefox

Ambari - EETeamJ1

172.26.60.16:8080/#/main/dashboard/metrics

Search

Ambari EETeamJ1 0 ops 0 alerts

Dashboard Services Hosts Alerts Admin admin

Metrics Heatmaps Config History

Metric Actions Last 1 hour

**HDFS Disk Usage**  
8%

**DataNodes Live**  
1/1

**HDFS Links**  
NameNode  
Secondary NameNode  
1 DataNodes  
More...

**Memory Usage**  
4.6 GB

**Network Usage**  
97.6 KB  
48.8 KB

**CPU Usage**  
100%  
50%

**Cluster Load**  
4  
2

**NameNode Heap**  
4%

**NameNode RPC**  
0 ms

**NameNode CPU WIO**  
0.1%

**NameNode Uptime**  
31.1 min

**ResourceManager Heap**  
22%

**ResourceManager Uptime**  
28.6 min

**NodeManagers Live**  
1/1

**YARN Memory**  
0%

**YARN Links**  
ResourceManager  
1 NodeManagers  
More...

**Flume Live**  
1/1

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