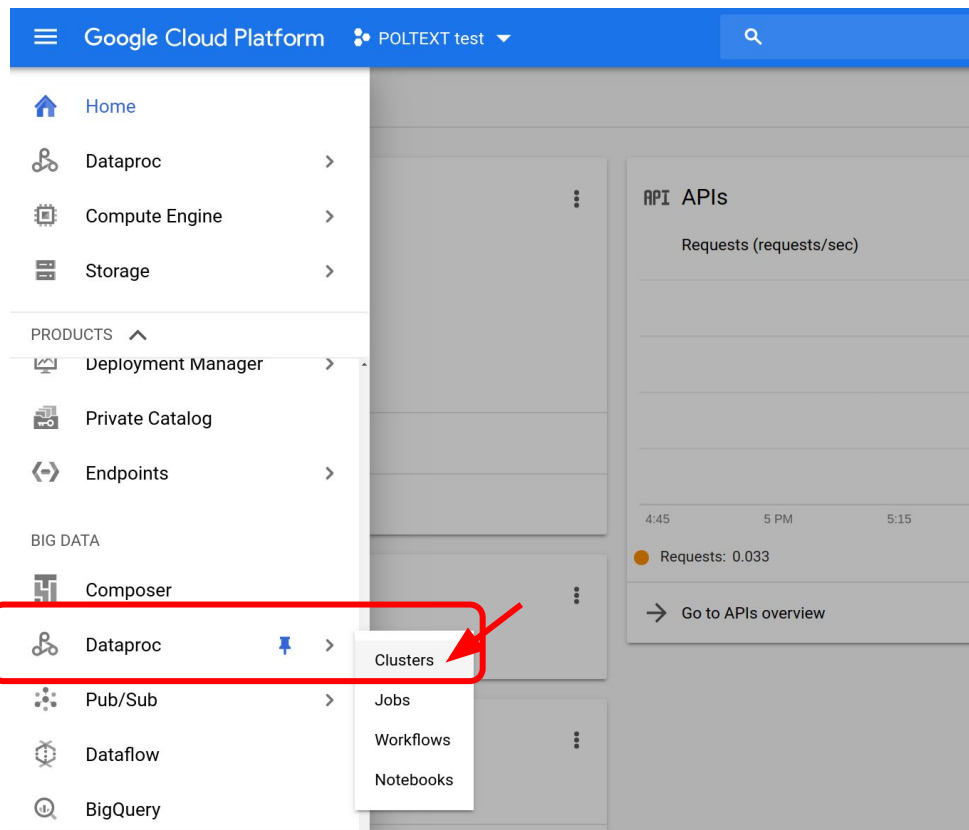


# Create a Spark cluster in Google Cloud with RStudio Server

An illustrated guide to


<https://cloud.google.com/solutions/running-rstudio-server-on-a-cloud-dataproc-cluster>


with some modifications





The screenshot shows the Google Cloud Platform console interface. The top navigation bar includes the Google Cloud Platform logo, a user profile labeled 'POLTEXT test', and a search icon. The left-hand navigation menu is expanded, showing categories like Home, Dataproc, Compute Engine, and Storage. Under the 'BIG DATA' section, 'Dataproc' is highlighted with a red rectangle. A sub-menu for Dataproc is open, showing options for Clusters, Jobs, Workflows, and Notebooks. A red arrow points to the 'Clusters' option in this sub-menu. The main content area on the right shows a blurred view of the 'API APIs' page.

Select Dataproc under BIG DATA and choose Clusters


Google Cloud Platform


POLTEXT test




Dataproc

Clusters

Jobs

Workflows

Notebooks

Clusters



Cloud Dataproc Clusters


Google Cloud Dataproc lets you provision Apache Hadoop clusters and connect to underlying analytic data stores.


Create your first cluster to get started.


Enable API


Enable the Dataproc API


 Google Cloud Platform POLTEXT test 





 Dataproc

 Clusters

 Jobs

 Workflows

 Notebooks

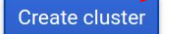
Clusters  CREATE CLUSTER  REFRESH  DELETE REGIONS 

Cloud Dataproc

Clusters

Google Cloud Dataproc lets you provision Apache Hadoop clusters and connect to underlying analytic data stores

There are no clusters in the currently selected Cloud Dataproc region(s). Create a cluster to get started.



Start creating a cluster

Google Cloud Platform

POLTEXT test

Dataproc

Clusters

Jobs

Workflows

Notebooks

← Create a cluster

Name ?

cluster-7d64

Region ?

global

Zone ?

us-central1-c

Cluster mode ?

Standard (1 master, N workers)

Master node

Contains the YARN Resource Manager, HDFS NameNode, and all job drivers

Machine type ?

2 vCPUs

8 GB memory

Customize

Upgrade your account

to create instances with up to 96 cores

Primary disk size (minimum 15 GB) ?

200

GB

Primary disk type ?

Standard persistent disk

Master node settings (for this tutorial we can just accept name, region and zone)

Google Cloud Platform

POLTEXT test

Dataproc

Clusters

Jobs

Workflows

Notebooks

Create a cluster

Worker nodes

Each contains a YARN NodeManager and a HDFS DataNode.  
The HDFS replication factor is 2.

Machine type

2 vCPUs

8 GB memory

Customize

Upgrade your account to create instances with up to 96 cores

Primary disk size (minimum 15 GB)

200

GB

Primary disk type

Standard persistent disk

Nodes (minimum 2)

2

Local SSDs (0-8)

0

x 375 GB

YARN cores

4

YARN memory

12.8 GB

Component gateway

☒ Enable access to the web interfaces of default and selected optional components on the cluster. [Learn more](#)

☒ Advanced options

Create

Cancel

Equivalent [REST](#) or [command line](#)

After adjusting worker node settings, check the Component gateway checkbox, and then press Create

Google Cloud Platform POLTEXT test

Dataproc Clusters

+ CREATE CLUSTER REFRESH DELETE REGIONS

Search clusters, press Enter

Name ^	Region	Zone	Total worker nodes	Scheduled deletion	Cloud Storage staging bucket	Created	Status
<input checked="" type="checkbox"/> <a href="#">cluster-7d64</a>	global	us-central1-c	2	Off	<a href="#">dataproc-a54f4896-2169-4da8-91ad-9aff7039cd53-us</a>	Sep 1, 2019, 5:52:19 PM	Running

Once the cluster is up and running, press the cluster name to go to the cluster management page

Google Cloud Platform POLTEXT test

Dataproc

Clusters

Jobs

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Notebooks

Cluster details

SUBMIT JOB REFRESH DELETE VIEW LOGS

cluster-7d64

For PD-Standard without local SSDs, we strongly recommend provisioning 1TB or larger to ensure consistently high I/O performance. See <https://cloud.google.com/dataproc/docs/concepts/configuring-vms#pd-standard>.

Monitoring Jobs **VM Instances** Configuration Web Interfaces

Activity for the last hour

Reset zoom 1 hour 6 hours

YARN memory

Sep 1, 2019 5:30 PM

13.97 GB

6.98 GB

0 B

5 PM 5:15 5:30 5:45

View in Stackdriver Monitoring

YARN pending memory

5 PM 5:15

View in Stackdriver Monitoring

YARN NodeManagers

HDFS capacity

We are now inspecting different aspects of our cluster on the cluster management page, press VM Instances to see the virtual machines that make up our cluster



☰

Google Cloud Platform

POLTEXT test

▼

🔍

🔗

Dataproc

⚙️

Clusters

☰

Jobs

📁

Workflows

📄

Notebooks

←

Cluster details

+

SUBMIT JOB

↻

REFRESH

✔️ cluster-7d64

⚠️

For PD-Standard without local SSDs, we strongly recommend provisioning information on disk I/O performance.

Monitoring

Jobs

VM Instances

Configuration

Web Interfaces

Name	Role	
✔️ cluster-7d64-m	Master	SSH ▼
✔️ cluster-7d64-w-0	Worker	
✔️ cluster-7d64-w-1	Worker	

Equivalent [REST](#)

Open the SSH terminal to the master node by pressing the SSH button

You can follow the individual steps on the following slides or just copy the following line to the ssh terminal and press enter, in the latter case skip the next four slides and continue from adding the new user by choosing a password for the new user in the ssh terminal

```
sudo apt-get update && sudo apt-get install -y r-base r-base-dev libcurl4-openssl-dev libssl-dev libxml2-dev gdebi-core &&  
wget https://download2.rstudio.org/server/debian9/x86\_64/rstudio-server-1.2.1335-amd64.deb && sudo gdebi --n  
rstudio-server-1.2.1335-amd64.deb && sudo su - -c "R -e \"install.packages('sparklyr', repos =  
'http://cran.us.r-project.org')\"" && sudo adduser test
```

## Installing RStudio Server and its dependencies on the master node

### Solutions

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### LINUX OR MACOS

### WINDOWS

1. On your local machine, connect through SSH to the master node of your Cloud Dataproc cluster:

```
gcloud compute ssh \  
  --zone=[CLUSTER_ZONE] \  
  --project=[PROJECT_ID] \  
  [CLUSTER_NAME]-m
```

Where:

- `[CLUSTER_ZONE]` is the zone where your cluster was created.
- `[PROJECT_ID]` is the ID of your project.
- `[CLUSTER_NAME]` is the name of your cluster.
- `[CLUSTER_NAME]-m` is the master node name of the cluster.

2. On the master node, install the required packages and dependencies:

```
sudo apt-get update  
sudo apt-get install -y \  
  r-base r-base-dev \  
  libcurl4-openssl-dev libssl-dev libxml2-dev
```

3. Follow the instructions on the [RStudio website](#) to download and install the latest RStudio Server version for 64-bit Debian Linux.

This is still <https://cloud.google.com/solutions/running-rstudio-server-on-a-cloud-dataproc-cluster>  
Copy-paste or type `sudo apt-get update` into the SSH terminal (ctrl-v works) and press enter

## Installing RStudio Server and its dependencies on the master node

### Solutions

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### LINUX OR MACOS

### WINDOWS

1. On your local machine, connect through SSH to the master node of your Cloud Dataproc cluster:

```
gcloud compute ssh \
  --zone=[CLUSTER_ZONE] \
  --project=[PROJECT_ID] \
  [CLUSTER_NAME]-m
```

Where:

- `[CLUSTER_ZONE]` is the zone where your cluster was created.
- `[PROJECT_ID]` is the ID of your project.
- `[CLUSTER_NAME]` is the name of your cluster.
- `[CLUSTER_NAME]-m` is the master node name of the cluster.

2. On the master node, install the required packages and dependencies:

```
sudo apt-get update
sudo apt-get install -y \
  r-base r-base-dev \
  libcurl4-openssl-dev libssl-dev libxml2-dev
```

3. Follow the instructions on the [RStudio website](#) to download and install the latest RStudio Server version for 64-bit Debian Linux.

This is still <https://cloud.google.com/solutions/running-rstudio-server-on-a-cloud-dataproc-cluster>  
Copy-paste the second command into the SSH terminal (ctrl-v works) and press enter

## Installing RStudio Server and its dependencies on the master node

### Solutions

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### LINUX OR MACOS

### WINDOWS

1. On your local machine, connect through SSH to the master node of your Cloud Dataproc cluster:

```
gcloud compute ssh \
  --zone=[CLUSTER_ZONE] \
  --project=[PROJECT_ID] \
  [CLUSTER_NAME]-m
```

Where:

- `[CLUSTER_ZONE]` is the zone where your cluster was created.
- `[PROJECT_ID]` is the ID of your project.
- `[CLUSTER_NAME]` is the name of your cluster.
- `[CLUSTER_NAME]-m` is the master node name of the cluster.

2. On the master node, install the required packages and dependencies:

```
sudo apt-get update
sudo apt-get install -y \
  r-base r-base-dev \
  libcurl4-openssl-dev libssl-dev libxml2-dev
```

3. Follow the instructions on the [RStudio website](https://cloud.google.com/solutions/running-rstudio-server-on-a-cloud-dataproc-cluster) to download and install the latest RStudio Server version for 64-bit Debian Linux.

This is still <https://cloud.google.com/solutions/running-rstudio-server-on-a-cloud-dataproc-cluster>  
Click the link to go to the RStudio Server install instructions website

```
$ sudo apt-get install gdebi-core
$ wget https://download2.rstudio.org/server/trusty/amd64/rstudio-server-1.2.1335-
amd64.deb
$ sudo gdebi rstudio-server-1.2.1335-amd64.deb
```

## Debian 9

To download and install RStudio Server open a terminal window and execute the following commands.

### 64bit

Size: 37.1 MB MD5: 33f56cb20079a3e1d64e10a215a6c326 Version: 1.2.1335 Released: 2019-04-08

```
$ sudo apt-get install gdebi-core
$ wget https://download2.rstudio.org/server/debian9/x86_64/rstudio-server-1.2.1335-
amd64.deb
$ sudo gdebi rstudio-server-1.2.1335-amd64.deb
```

## Ubuntu 18+

To download and install RStudio Server open a terminal window and execute the following commands.

### 64bit

Size: 36.8 MB MD5: 7e84f384a87e219d20c00d8a6bccf532 Version: 1.2.1335 Released: 2019-04-08

```
$ sudo apt-get install gdebi-core
```

This is <https://www.rstudio.com/products/rstudio/download-server/>  
Scroll down to Debian 9, and copy and execute the three commands one by one in the SSH terminal like we did before (NOTE: don't copy the \$ symbol at the beginning of the commands)

```
Adding user `test' ...
Adding new group `test' (1002) ...
Adding new user `test' (1002) with group `test' ...
Creating home directory `/home/test' ...
Copying files from `/etc/skel' ...
Enter new UNIX password:
Retype new UNIX password:
passwd: password updated successfully
Changing the user information for test
Enter the new value, or press ENTER for the default
  Full Name []:
  Room Number []:
  Work Phone []:
  Home Phone []:
  Other []:
Is the information correct? [Y/n] █
```

We need to create a user to access the RStudio Server web interface. Type or copy from the instructions page into the SSH terminal: `sudo adduser test`. This will create the user “test”. Choose a password and leave the information blank (just press enter) and select y to finish the process.

We need to use the Google Cloud SDK (gcloud command line tool) for the next step. If you don't have the SDK installed yet, follow the instructions for your OS here:  
<https://cloud.google.com/sdk/docs/quickstarts>





## Solutions

Overview

▸ Media

▸ Gaming

▸ Financial Services

▸ Internet of Things

▸ Backup &amp; Archive

▸ Digital Marketing

▸ Retail &amp; Commerce

▸ Websites &amp; Web Apps

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▸ Healthcare and Life Sciences

▸ Hybrid Cloud

▸ Security

Architecture Diagrams

Hadoop Spark Migration

Partner Solutions

- To load the HDFS NameNode web UI, connect your specially configured browser to `http://[CLUSTER_NAME]-m:9870`.

## Connect through SSH port forwarding

## LINUX OR MACOS

## WINDOWS

1. On your local machine, connect to the Cloud Dataproc master node:

```
gcloud compute ssh \  
  --zone=[CLUSTER_ZONE] \  
  --project=[PROJECT_ID] \  
  [CLUSTER_NAME]-m -- \  
  -L 8787:localhost:8787
```

The `--` parameter separates arguments for the `gcloud` command from arguments that are sent to the `ssh` command. The `-L` option sets up TCP port forwarding from port 8787 on the local machine to port 8787 on the cluster master node where RStudio Server is listening.

2. To load the RStudio web UI, connect your browser to `http://localhost:8787`.
3. Log in by using the username and password that you created.

This is still <https://cloud.google.com/solutions/running-rstudio-server-on-a-cloud-dataproc-cluster>

We need the above information to create the `gcloud ssh` tunnel command. Luckily we can find it easily on our cluster management interface at Web Interfaces

Google Cloud Platform POLTEXT test

Dataproc

Cluster details SUBMIT JOB REFRESH

Clusters

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Workflows

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cluster-7d64

For PD-Standard without local SSDs, we strongly recommend provisioning information on disk I/O performance.

Monitoring Jobs VM Instances Configuration **Web Interfaces**

**SSH tunnel**  
Create an SSH tunnel to connect to a web interface

**Component gateway**

YARN ResourceManager ↗

HDFS NameNode ↗

MapReduce Job History ↗

YARN Application Timeline ↗

Spark History Server ↗

Tez ↗

Equivalent REST

Go to Web Interfaces on the cluster management page

Google Cloud Platform

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cluster-7d64

For PD-Standard without local SSDs, we strongly recommend provisioning information on disk I/O performance.

MonitoringJobsVM InstancesConfigurationWeb Interfaces

SSH tunnel

Create an SSH tunnel to connect to a web interface

Component gateway

YARN ResourceManager

HDFS NameNode

MapReduce Job History

YARN Application Timeline

Spark History Server

Tez

Equivalent REST

Press Create an SSH tunnel...

Google Cloud Platform POLTEXT test

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cluster-7d64

For PD-Standard without local information on disk I/O performance

Monitoring Jobs VM Instance

SSH tunnel

Create an SSH tunnel to connect to a

Component gateway

YARN ResourceManager

HDFS NameNode

MapReduce Job History

YARN Application Timeline

Spark History Server

Tez

Equivalent REST

Connecting to a web interface

LINUX MACOS WINDOWS

Create an SSH tunnel using local port 1080

```
gcloud compute ssh cluster-7d64-m \
--project=poltext-test \
--zone=us-central1-c -- -D 1080 -N
```

Run Chrome and connect through the proxy

```
/usr/bin/google-chrome \
--proxy-server="socks5://localhost:1080" \
--user-data-dir="/tmp/cluster-7d64-m" http://cluster-7d64-m:8088
```

Learn more

CLOSE

Copy the SSH tunnel command from the pop-up to an empty file where you can edit it

## Data Analytics Products

[Contact sales](#)

REST reference

RPC reference

Cloud SDK

## Concepts

All Concepts

Cloud Dataproc overview

Accessing clusters

[Cluster web interfaces](#)Component gateway 

Network configuration

Components

Compute options

Configuring clusters

Configuring and running jobs

Connectors

Hadoop Data Storage

Identity and Access Management

Regional endpoints

## Available interfaces

The following interfaces are available on a Cloud Dataproc cluster master node (replace `master-host-name` with the name of your master node).



The cluster `master-host-name` is the name of your Cloud Dataproc cluster followed by an `-m` suffix—for example, if your cluster is named "my-cluster", the master-host-name would be "my-cluster-m".

Web UI	Port	URL
YARN ResourceManager	8088	<code>http://master-host-name:8088</code>
HDFS NameNode	9870 <sup>1</sup>	<code>http://master-host-name:9870</code>

<sup>1</sup> In earlier Cloud Dataproc releases (pre-1.2), the HDFS Namenode web UI port was 50070.

The YARN ResourceManager has links for all currently running and completed MapReduce and Spark Applications web interfaces under the "Tracking UI" column.

We can find the default port numbers for the HDFS NameNode and the cluster manager web UIs at:

<https://cloud.google.com/dataproc/docs/concepts/accessing/cluster-web-interfaces>

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Why Google

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Options

Help

gcloud compute ssh cluster-7d64-m \

--project=poltext-test \

--zone=us-central1-c --L 8787:localhost:8787 -L 8088:localhost:8088 -L 9870:localhost:9870

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Reference

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Using clusters

Cluster web interface

Component gateways

Network configuration

Components

Cluster options

Using clusters

Using and running jobs

Cluster monitors

Cluster (replace master-host-name with cluster name)

Followed by an -m suffix—for master node

YARN ResourceManager	8088	http:// <i>master-host-name</i> :8088
HDFS NameNode	9870 <sup>1</sup>	http:// <i>master-host-name</i> :9870

<sup>1</sup> In earlier Cloud Dataproc releases (pre-1.2), the HDFS Namenode web UI port was 50070.

Now we can put together the command we need to set up a simple ssh tunnel to access the web UIs. NOTE: you can also set up a SSH SOCKS tunnel instead: <https://cloud.google.com/solutions/running-rstudio-server-on-a-cloud-dataproc-cluster>

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gcloud compute ssh cluster-7d64-m \

--project=poltext-test \

--zone=us-central1-c --

Products

Reference

Reference

SDK

Concepts

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Setting up clusters

Cluster web interfaces

Component gateways

Network configuration

Components

Deployment options

Running clusters

Starting and running jobs

Connectors

de (replace master-h

owed by an -m suffix—for

YARN ResourceManager	8088	http:// <i>master-host-name</i> :8088
HDFS NameNode	9870 <sup>1</sup>	http:// <i>master-host-name</i> :9870

<sup>1</sup> In earlier Cloud Dataproc releases (pre-1.2), the HDFS Namenode web UI port was 50070.

This is the part we copied from the cluster management Web Interfaces pop-up, minus the “-D 1080 -N” at the end. The -- marks the end of the gcloud ssh address, and the start of normal ssh command parameters.

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Why Google

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File Edit Search Options Help

gcloud compute ssh cluster-7d64-m \

--project=poltext-test \

--zone=us-central1-c -L 8787:localhost:8787 -L 8088:localhost:8088 -L 9870:localhost:9870

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YARN ResourceManager	8088	http://master-host-name:8088
HDFS NameNode	9870 <sup>1</sup>	http://master-host-name:9870

<sup>1</sup> In earlier Cloud Dataproc releases (pre-1.2), the HDFS Namenode web UI port was 50070.

This is the part we are adding ourselves. -L is the flag for setting up the port forwarding, and localhost is our machine. We can set forwarding for more than one port in the same ssh command. 8787 is the default port number for RStudio Server, and the other two port numbers are for the cluster manager and the HDFS NameNode, from this page.



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Help

```
gcloud compute ssh cluster-7d64-m \
--project=poltext-test \
--zone=us-central1-c --L 8787:localhost:8787 -L 8088:localhost:8088 -L 9870:localhost:9870
```

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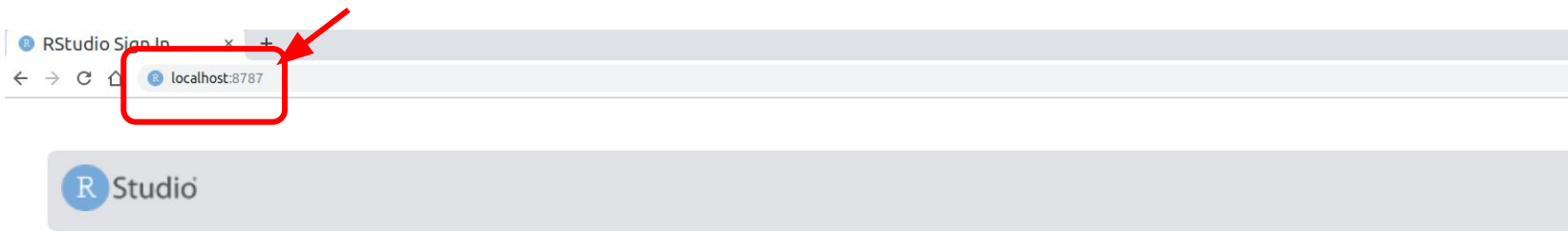
de (replace master-t

wed by an -m suffix-for

YARN ResourceManager	8088	http:// <i>master-host-name</i> :8088
HDFS NameNode	9870 <sup>1</sup>	http:// <i>master-host-name</i> :9870

<sup>1</sup> In earlier Cloud Dataproc releases (pre-1.2), the HDFS Namenode web UI port was 50070.

Copy this command into a command shell on your own computer where you have already set up the SDK and have connected with gcloud init, and press enter.



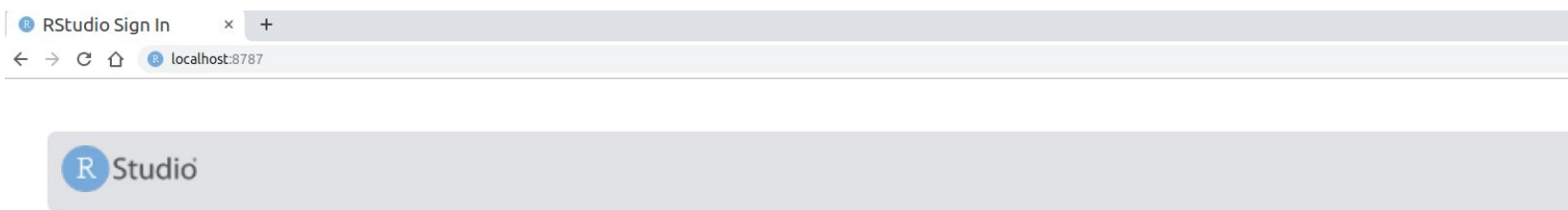
Sign in to RStudio

Username:

Password:

☐ Stay signed in

To access the RStudio Server web UI now you can enter the following address in your browser: localhost:8787



Sign in to RStudio

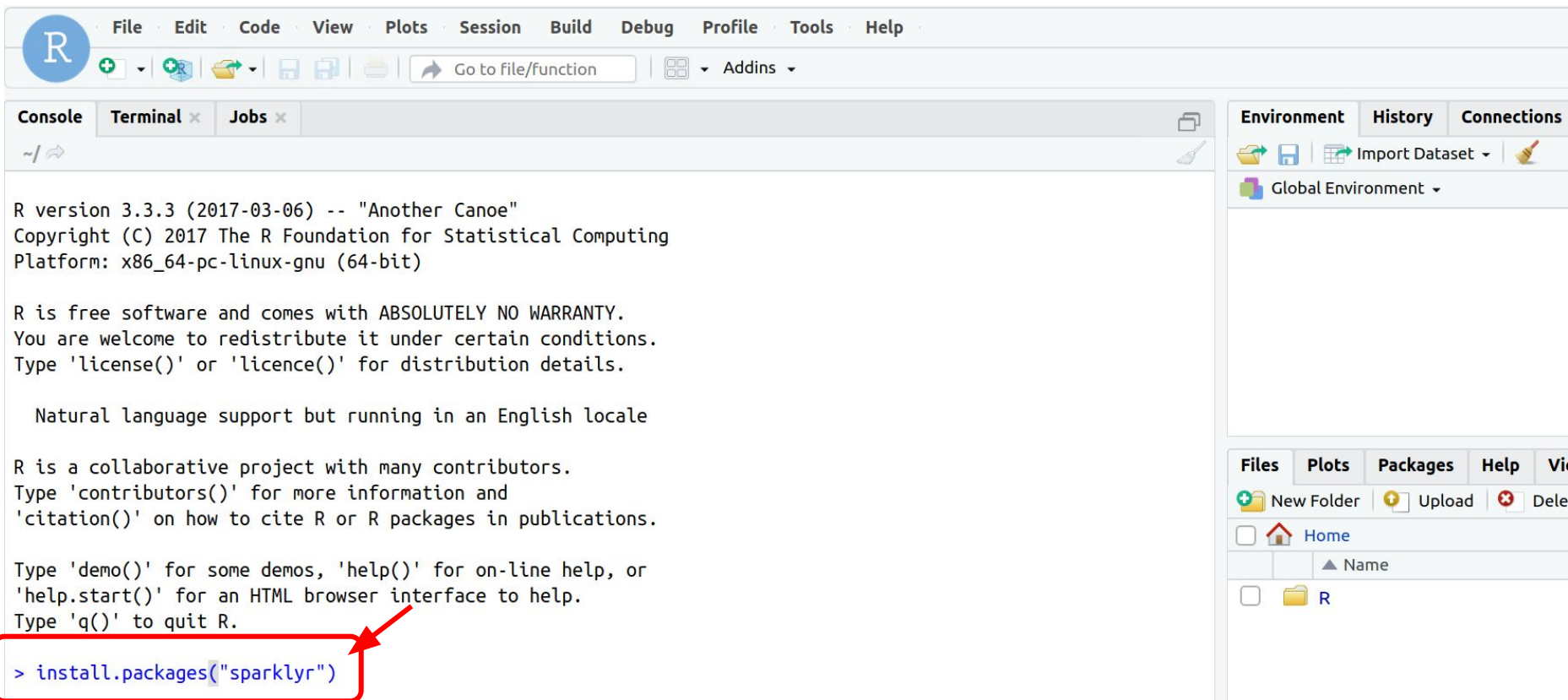
Username:

Password:

☐ Stay signed in

Sign In

Sign in as “test” user with the password you set up the user profile with.



The screenshot shows the RStudio application window. The top menu bar includes File, Edit, Code, View, Plots, Session, Build, Debug, Profile, Tools, and Help. Below the menu is a toolbar with icons for creating a new file, opening a file, saving, and other functions. The main window is divided into three panes: Console, Terminal, and Jobs. The Console pane is active and displays the R startup message, including the version (3.3.3), copyright information, and instructions on how to use R. A red box highlights the command `> install.packages("sparklyr")` at the bottom of the console, with a red arrow pointing to it. The Environment pane on the right shows the Global Environment. The Files pane at the bottom right shows the Home directory with a folder named R.

```
R version 3.3.3 (2017-03-06) -- "Another Canoe"
Copyright (C) 2017 The R Foundation for Statistical Computing
Platform: x86_64-pc-linux-gnu (64-bit)

R is free software and comes with ABSOLUTELY NO WARRANTY.
You are welcome to redistribute it under certain conditions.
Type 'license()' or 'licence()' for distribution details.

Natural language support but running in an English locale

R is a collaborative project with many contributors.
Type 'contributors()' for more information and
'citation()' on how to cite R or R packages in publications.

Type 'demo()' for some demos, 'help()' for on-line help, or
'help.start()' for an HTML browser interface to help.
Type 'q()' to quit R.

> install.packages("sparklyr")
```

If you didn't run the install script on slide 10, then you still have to install the sparklyr package in the usual way: `install.packages("sparklyr")`

Great, we are ready with setting up our system.

But, please don't forget, we will also have to clean up the cluster and storage once we are done.

How to clean up your cluster and cloud storage after use to prevent unnecessary billing

Google Cloud Platform POLTEXT test

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Jobs

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Clusters

+ CREATE CLUSTER

REFRESH

DELETE

REGIONS

Search clusters, press Enter

<input checked="" type="checkbox"/>	Name ^	Region	Zone	Total worker nodes	Scheduled deletion	Cloud Storage staging bucket	Created
<input checked="" type="checkbox"/>	cluster-7d64	global	us-central1-c	2	Off	dataproc-a54f4896-2169-4da8-91ad-9aff7039cd53-us	Sep 1, 2019, 5:52:19 PM

To delete the cluster: Go back to the clusters overview page and mark the checkbox next to the cluster's name, then press delete

The screenshot shows the Google Cloud Platform console interface. The top navigation bar is blue and contains the Google Cloud Platform logo, the text "POLTEXT test", and a search icon. On the left, a sidebar menu is open, displaying various services. The "Storage" service is highlighted with a red rectangle. A red arrow points to the "Browser" sub-option in the Storage dropdown menu. The main content area on the right shows the "clusters" page with a table of clusters.

Google Cloud Platform POLTEXT test

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Compute Engine

Storage

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STORAGE

Bigtable

Datastore

Firestore

Filestore

Storage

SQL

Spanner

Memorystore

Browser

Transfer

Transfer Appliance

Settings

clusters

+ CREATE CLUSTER

REFRESH

Search clusters, press Enter

Name	Region	Zone	Total worker nodes
cluster-7d64	global	us-central1-c	2

To delete the cloud storage: First go to the Storage Browser page



Google Cloud Platform POLTEXT test

Storage

Browser

Transfer

Transfer Appliance

Settings

Browser CREATE BUCKET REFRESH DELETE

Filter by prefix...

Buckets

<input checked="" type="checkbox"/>	Name	Default storage class ?	Location	Location
<input checked="" type="checkbox"/>	dataproc-a54f4896-2169-4da8-91ad-9aff7039cd53-us	Standard	us (multiple regions in United States)	Mu

Then mark the checkbox next to the storage name and press delete