



Workshop 1 – Setting up Couchbase



- Installation locally
- Installation on cloud (Amazon / Azure)
- Installation with Docker
- Basic Configuration



Couchbase
DEVELOPER COMMUNITY









1.1 – Installing Couchbase Server

- <http://couchbase.com/nosql-databases/downloads>
- USB thumb drives are available

Couchbase Server

Enterprise Community Developer Extensions Tools

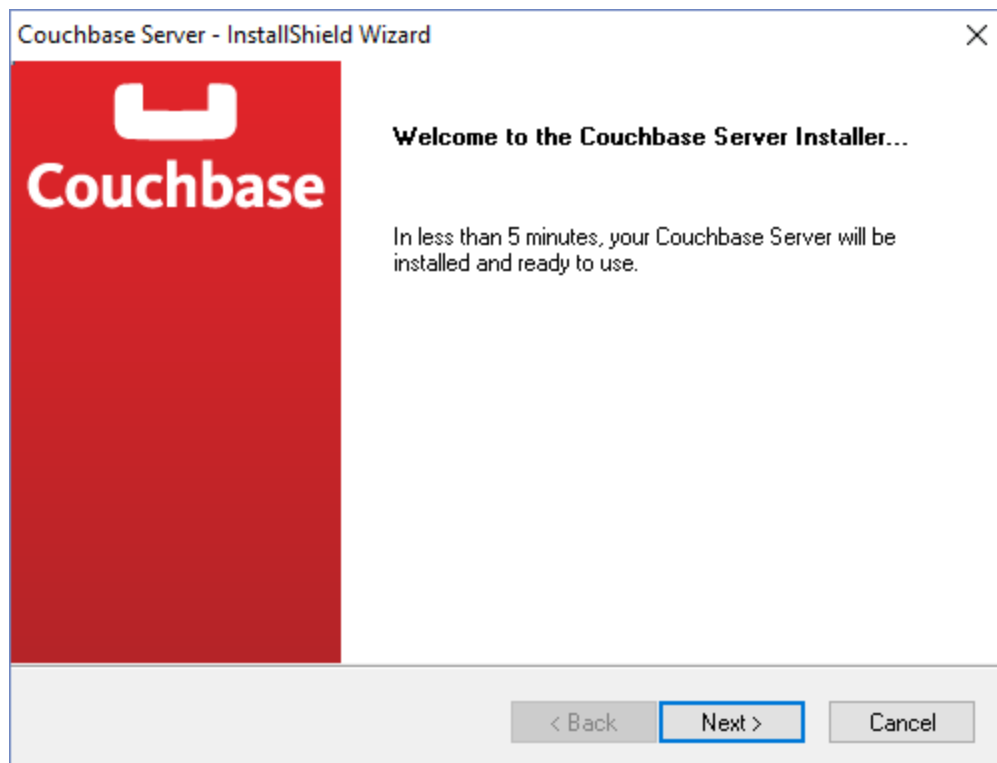
ENTERPRISE VERSION
4.6.1 (Current Release) ▾
[Release Notes](#) • [What's New](#)

PLATFORMS	DOWNLOAD
 Ubuntu 14.04	Download md5
 Ubuntu 12.04	Download md5
 Red Hat 7	Download md5
 Red Hat 6	Download md5
 Windows	Download md5
 Mac OSX	Download md5

Couchbase Server Enterprise Edition represents the most stable, production-ready release and is recommended for commercial production systems or any evaluation that may eventually lead to a commercial production deployment.

It has features which aren't available in the Community Edition that support enterprise customers with large production deployments running in data centers and/or public clouds.

Our paid annual subscriptions for EE include a commercial license, technical support with service level commitments via our 24x7 support organization, and technical support and hot fixes for older releases.



Install on Cloud: Azure



- <https://portal.azure.com>

Marketplace

Everything

Everything

Compute

Networking

Storage

Web + Mobile

Databases

Intelligence + analytics

Internet of Things

Enterprise Integration






Security + Identity

Everything

Filter

couchbase server

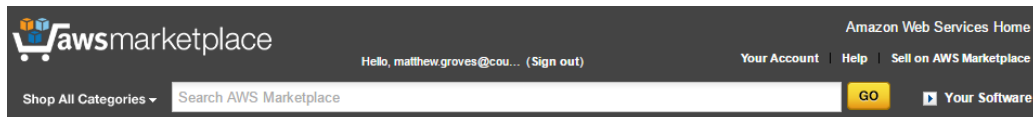
Results

NAME	PUBLISHER	CATEGORY
 Couchbase Server 4.5.0 Community Edition	Couchbase	Compute
 Couchbase Server 4.5.1 Enterprise Edition (Silver)	Couchbase	Compute
 Couchbase Server 4.6.0 Enterprise Edition (Gold)	Couchbase	Compute
 Couchbase Server 4.6.0 Enterprise Edition (Silver)	Couchbase	Compute
 Couchbase Server 4.5.1 Enterprise Edition (Gold)	Couchbase	Compute



- Select Couchbase Server, click Create
- Step 1 Basics: Name, user name, Auth type, Password, Subscription, Resource Group, Location
- Step 2 Size: Pick a size (4 cores, 4gb RAM recommended)
- Step 3 Settings:
 - Virtual network -> subnet name
 - Network security group -> add inbound rule (TCP, source port *, destination port *)
 - Network security group -> add outbound rule (TCP, destination port *, source port *)
- Step 4 Summary
- Step 5 Buy
- Wait for deployment
- Access Couchbase Console via the Public IP address, port 8091 (e.g. <http://168.1.2.3:8091>)
- Video: <http://blog.couchbase.com/2017/june/couchbase-on-the-microsoft-azure-marketplace-video>

- <https://aws.amazon.com/marketplace>



Couchbase

About Couchbase

Couchbase provides an unmatched lineup of data management capabilities built with Apache CouchDB document database technology, Memcached distributed caching technology and the Membase cluster management system. The Couchbase product family combines these capabilities creating software solutions that scale from large clusters down to mobile phones and tablets. The Couchbase team is a veritable NoSQL dream team. The leading contributors to the CouchDB, Membase and memcached open source projects form the backbone of the engineering team. With our unified resources, Couchbase will rapidly deliver increasingly innovative data management solutions, with zero compromises and unquestioned production readiness. Couchbase is headquartered in Mountain View, California, with development offices around the world. We are a privately held company funded by Accel Partners, Ignition Partners, Mayfield Fund, North Bridge Venture Partners and Redpoint Ventures. Our advisory board consists of the best and brightest minds from the database, open source and web application worlds.

Couchbase

[Visit the Couchbase Website](#)

Couchbase Products (8)

showing 1 - 8



Couchbase Server Community Edition

★★★★★ (0) | Version 4.0.0 | Sold by Couchbase, Inc

Couchbase Server is an open source NoSQL database, and its available in an enterprise edition. It is a scalable, high performance NoSQL database engineered to support AWS...

[Linux/Unix, Amazon Linux 2014.03 - 64-bit Amazon Machine Image \(AMI\)](#)



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Free Trial

Couchbase Server Enterprise Edition (Gold)

★★★★★ (0) | Version 4.5.0 | Sold by Couchbase, Inc

Starting from **\$1.47/hr** or from **\$9,900.00/yr** (up to 51% savings) for software + AWS usage fees

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[Linux/Unix, Amazon Linux 2014.03 - 64-bit Amazon Machine Image \(AMI\)](#)



- Select Couchbase Server, click Continue
- Choose pricing (4 cores, 4gb RAM recommended)
- Select VPC (or create new VPC)
- Select Security Group (or create new security group based on seller settings)
- Click "Accept"
- Wait for initialization (EC2 console)
- Access Couchbase Console via Public DNS port 8091 (e.g. <http://ec2-52-1-3-4.compute-1.amazonaws.com:8091>)

Install with Docker (offline)




- couchbase460.tar available on USB drives
- `docker load -i /the/path/to/couchbase461.tar`

Administrator: Windows PowerShell

```
PS C:\zproj\aspnet-nosql-workshop> docker load -i .\couchbase461.tar
c29b5eadf94a: Loading layer [=====>] 196.9 MB/196.9 MB
04ab82f865cf: Loading layer [=====>] 209.9 kB/209.9 kB
9bd4c7af882a: Loading layer [=====>] 7.168 kB/7.168 kB
af43131c4039: Loading layer [=====>] 4.608 kB/4.608 kB
bd00cdbae641: Loading layer [=====>] 3.072 kB/3.072 kB
592bf2ede2f4: Loading layer [=====>] 35.11 MB/35.11 MB
2ba2b6e51f14: Loading layer [=====>] 342 kB/342 kB
aa3f061aaa90: Loading layer [=====>] 362.5 MB/362.5 MB
e6e04d909c52: Loading layer [=====>] 3.584 kB/3.584 kB
38f643735c6a: Loading layer [=====>] 3.584 kB/3.584 kB
16b040929d62: Loading layer [=====>] 4.608 kB/4.608 kB
c93551dad997: Loading layer [=====>] 170 kB/170 kB
c2890da3c03d: Loading layer [=====>] 2.048 kB/2.048 kB
Loaded image: couchbase:4.6.1
PS C:\zproj\aspnet-nosql-workshop> docker images
REPOSITORY          TAG                 IMAGE ID            CREATED             SIZE
couchbase            4.6.1              337dab68d2d1       7 days ago         581 MB
PS C:\zproj\aspnet-nosql-workshop>
```



- https://hub.docker.com/_/couchbase/
- couchbase:4.6.1
- `docker run -d --name db -p 8091-8094:8091-8094 -p 11210:11210 couchbase:4.6.1`
- `docker ps -a`

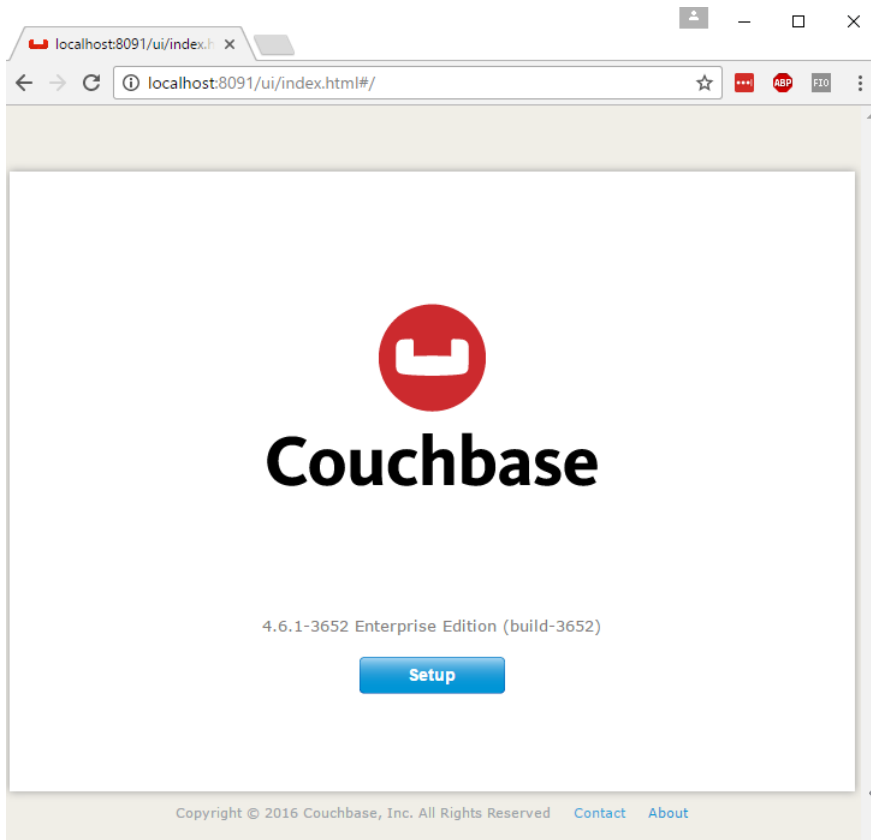
 Administrator: Windows PowerShell

```
PS C:\zproj\aspnet-nosql-workshop> docker ps -a
```

CONTAINER ID	IMAGE	COMMAND	CREATED	STATUS	PORTS	NAMES
354f0d223be0	couchbase:4.6.1	"/entrypoint.sh co..."	26 seconds ago	Up 25 seconds	0.0.0.0:8091-8094->	db

```
PS C:\zproj\aspnet-nosql-workshop>
```

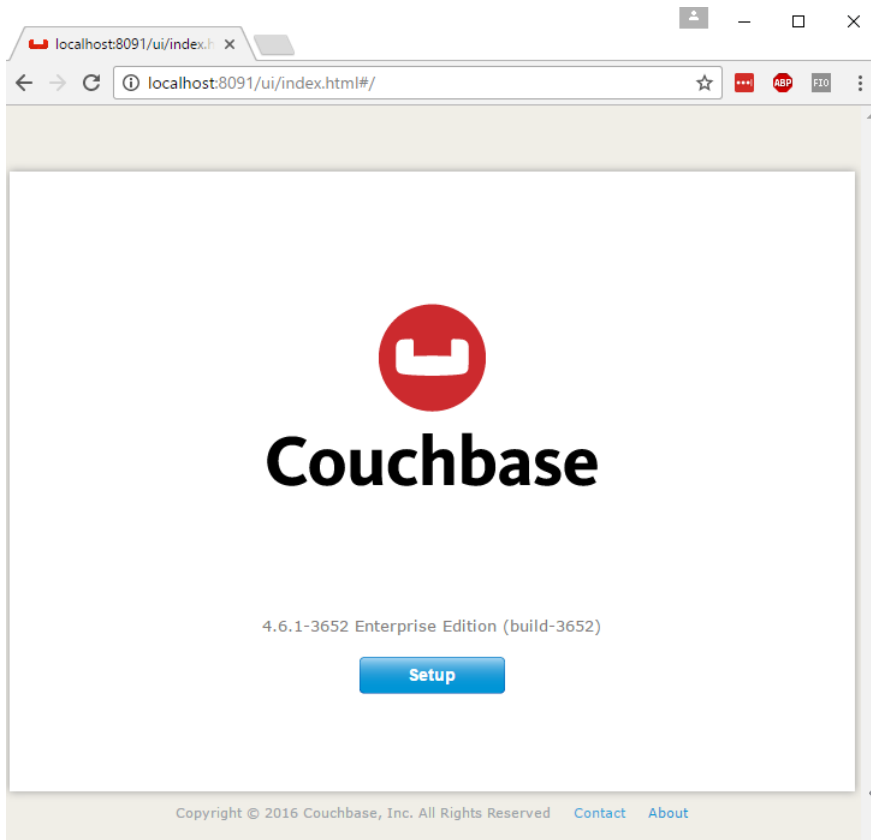
- <http://localhost:8091>





1.2 – Configuring Couchbase Server

- <http://localhost:8091>



☒ Start a new cluster.

RAM Available: 18429 MB

Services: ☒ Data ☒ Index ☒ Query ☒ Full Text [What's this?](#)

Data RAM Quota: MB (min 256 MB) [What's this?](#)

Index RAM Quota: MB (min 256 MB) [What's this?](#)

Full Text RAM Quota: MB (min 256 MB) [What's this?](#)

Total Per Server: 1024 MB (must be less than 17405 MB)

Index Storage Setting: ☒ Global Index ☐ Memory-Optimized Global Index

SAMPLE BUCKETS

Step 2 of 5

Sample Data and Views

Sample buckets contain example data and Couchbase views. You can provision one or more sample buckets to help you discover the power of Couchbase Server. Sample buckets can be removed later from the bucket edit panel.

Available Samples

- ☐ beer-sample
- ☐ gamesim-sample
- ☐ travel-sample

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CREATE DEFAULT BUCKET

Step 3 of 5

Bucket Settings

Bucket Name:

Bucket Type: ☒ Couchbase ☐ Memcached

Memory Size

Per Node RAM Quota: MB

Cluster quota (512 MB)

Other Buckets (100 MB) This Bucket (412 MB) Free (0 B)

Total bucket size = 412 MB (412 MB x 1 node)

NOTIFICATIONS


Step 4 of 5

Update Notifications

☒ Enable software update notifications [What's this?](#)

Product Registration

Register your Enterprise Edition of Couchbase Server below.

Email: 

First name:

Last name:

Company:

☒ I agree to the [terms and conditions](#) associated with this product. *

PLEASE NOTE: Running Couchbase Server Enterprise Edition in production environments requires a paid support subscription.

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CONFIGURE SERVER


Step 5 of 5

Secure this Server

Please create an administrator account for this Server. If you want to join other servers to this one to form a cluster, you will need to use these administrator credentials in the "join cluster" process.


Username:

Administrator




Password:

.....



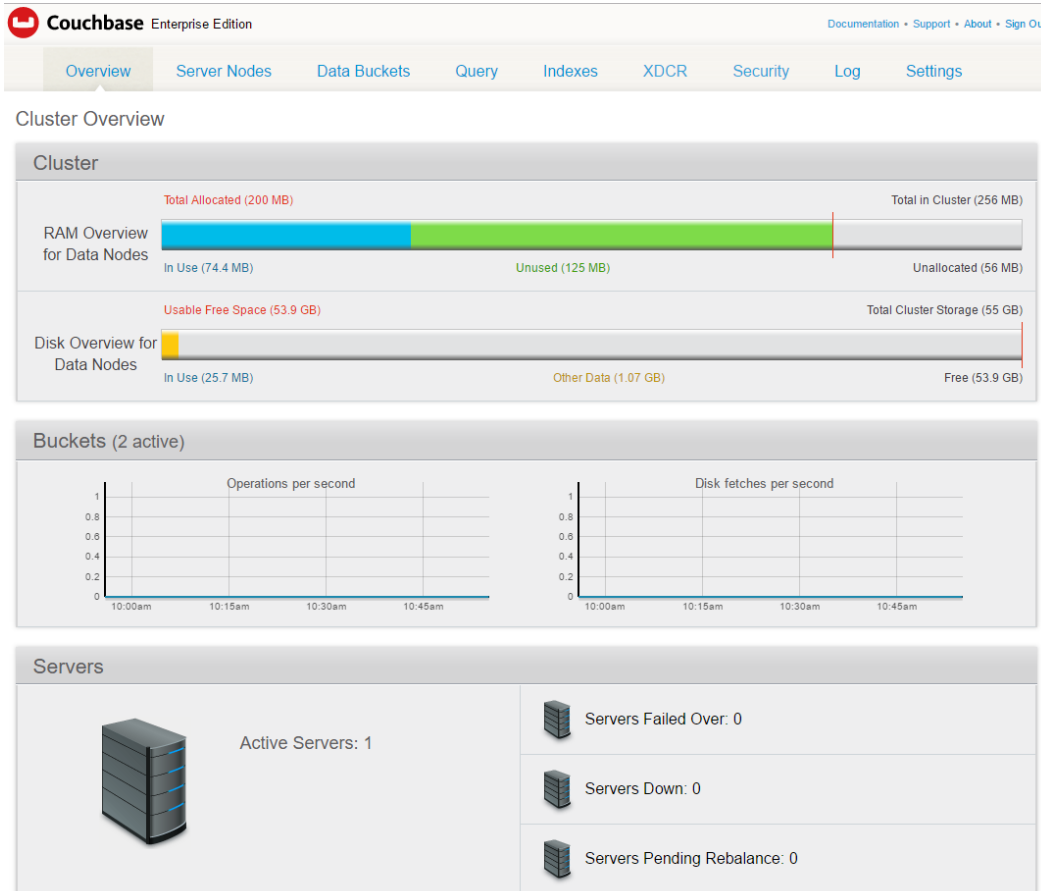
Verify Password:

.....



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Questions