

ASP.NET with NoSQL Workshop

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Workshop Agenda



- Install database (Couchbase)
- Hello, world .NET console application
- ASP.NET WebAPI RESTful services
- Angular UI

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Prereqs



- Visual Studio 2017
- Couchbase Server 5.x
- node/npm/angular-cli
 - (or Postman / Fiddler / etc?)
- Source code
 - (or you can follow along and build from scratch)

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Workshop 1 – Setting up Couchbase

Agenda



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



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1.1 – Installing Couchbase Server

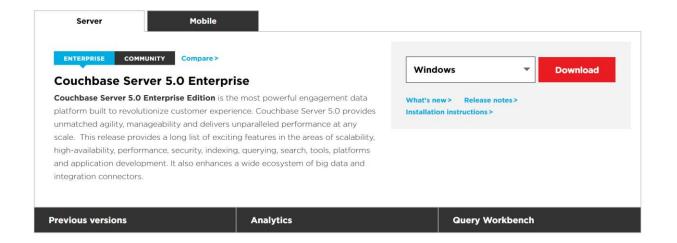
Install Locally: Windows/Mac/Ubuntu



- http://couchbase.com/downloads
- USB thumb drive available

DOWNLOADS

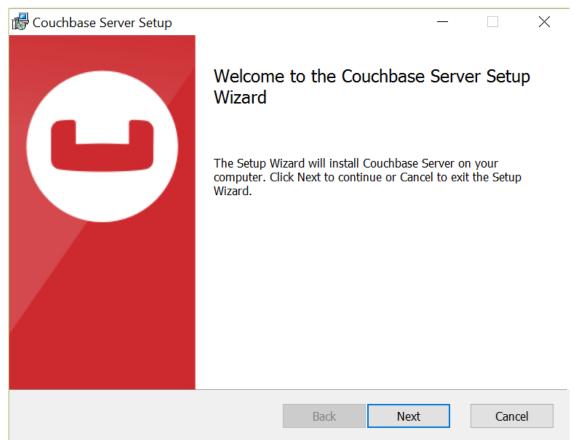
The best way to learn is to download the software and try it out



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Install



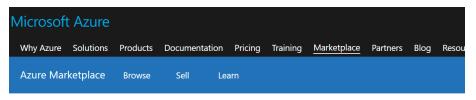


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Install on Cloud: Azure



- https://portal.azure.com
- https://azuremarketplace.microsoft.com/en-us/marketplace/apps/couchbase.couchbase-enterprise



Products > Couchbase Enterprise



GET IT NOW

TEST DRIVE

Couchbase Enterprise

Couchbase

Overview

Plans

Couchbase Enterprise

Couchbase delivers NoSQL database technology for businesses focused on digital innovation. Organizations around the world choose Couchbase for its advantages in data model flexibility, elastic scalability, performance, and 24x365 availability to build enterprise web, mobile, and IoT applications. The Couchbase Data Platform includes Couchbase, Couchbase Lite -- the first mobile NoSQL database -- and Couchbase Sync Gateway. Couchbase is designed for global deployments, with configurable cross datacenter replication to increase data locality and availability. All Couchbase products are open source projects.

Couchbase customers include industry leaders like AOL, Amadeus, AT&T, Cisco, Comcast, Concur, Disney, Dixons, eBay, General Electric, Marriott, Nordstrom, Neiman Marcus, PayPal, Ryanair, Rakuten / Viber, Tesco, Verizon, Wells Fargo, as well as hundreds of other household names.

Pricing information Cost of deployed template components

What's Test Drive?

Test Drive duration

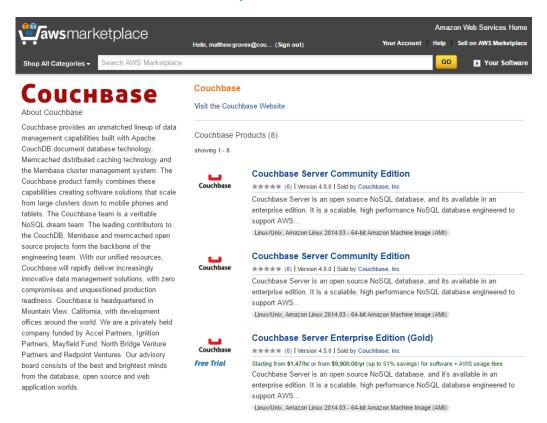
Categories Computo

3 hours

Install on Cloud: Amazon



https://aws.amazon.com/marketplace



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Install with Docker



- https://hub.docker.com/_/couchbase/
- couchbase:enterprise-5.0.0
- docker run -d --name db -p 8091-8094:8091-8094 -p 11210:11210 couchbase: enterprise-5.0.0 docker ps -a

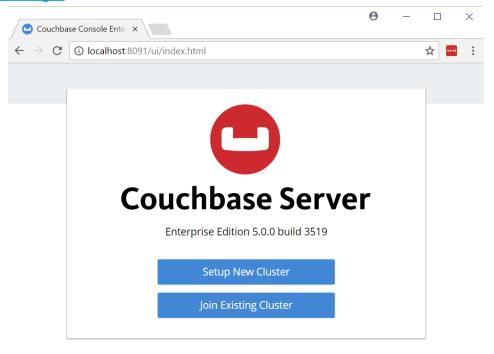
```
Administrator: Windows PowerShell
```

```
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>
```

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http://localhost:8091

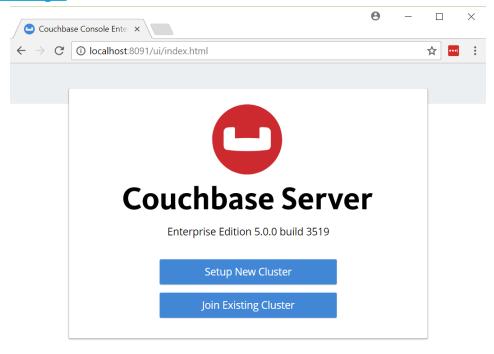




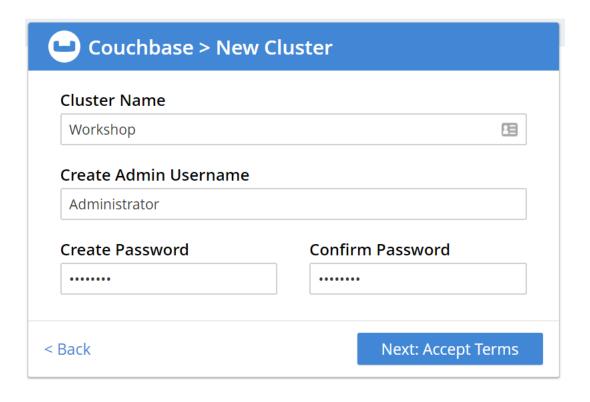
1.2 – Configuring Couchbase Server



http://localhost:8091

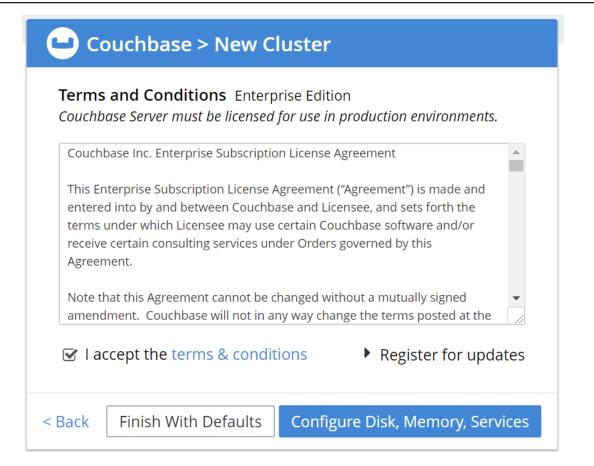






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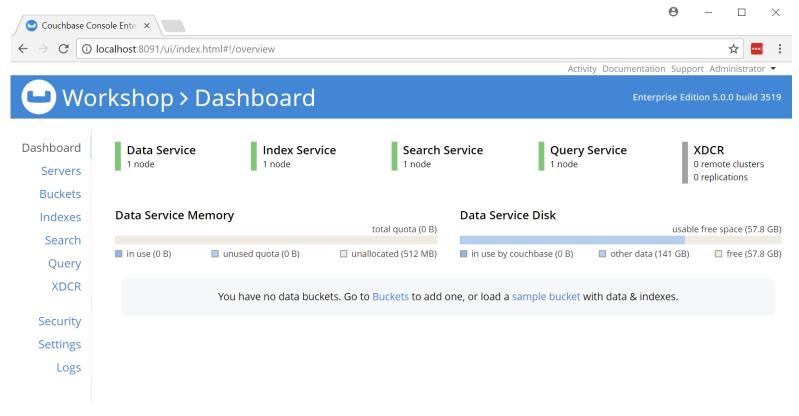


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lost Name / IP Address	Usually locall	nost or similar
127.0.0.1	E	
Data Disk Path	Path cannot be chang	ed after setup
c:/Program Files/Couchbase/Serve	- /var/lib/couchbase/data	a .
Free: 57 GB		
Indexes Disk Path	Path cannot be chang	ed after setup
c:/Program Files/Couchbase/Serve	/var/lib/couchbase/data	Э
Free: 57 GB		
Couchbase Memory Quotas	Per serv	ice / per node
☑ Data Service	512	МВ
☑ Index Service	512	МВ
☑ Search Service	512	МВ
☑ Query Service		
	TOTAL QUOTA	1536MB
RAM Available 16292MB M	ax Allowed Quota 15268ME	3
Index Storage Setting		
Standard Global Secondary		
Memory-Optimized (i)		
○ Memory-Optimized ③☑ Enable software update notif	ications in the web co	nsole





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Demo



Questions