

COMP6235 -- MongoDB Tutorial

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Setup VM

1. Copy the ova file from usb to your local machine (recommended to put at your h drive)
2. Double-click on the ova file (import it as a new appliance)

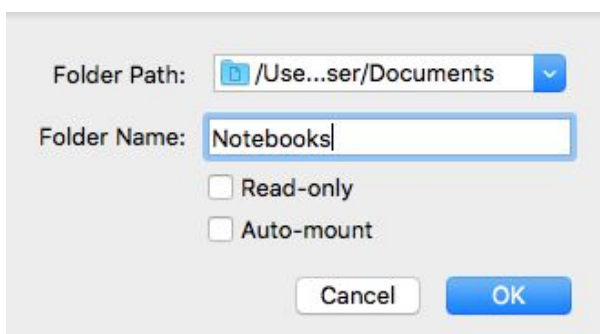
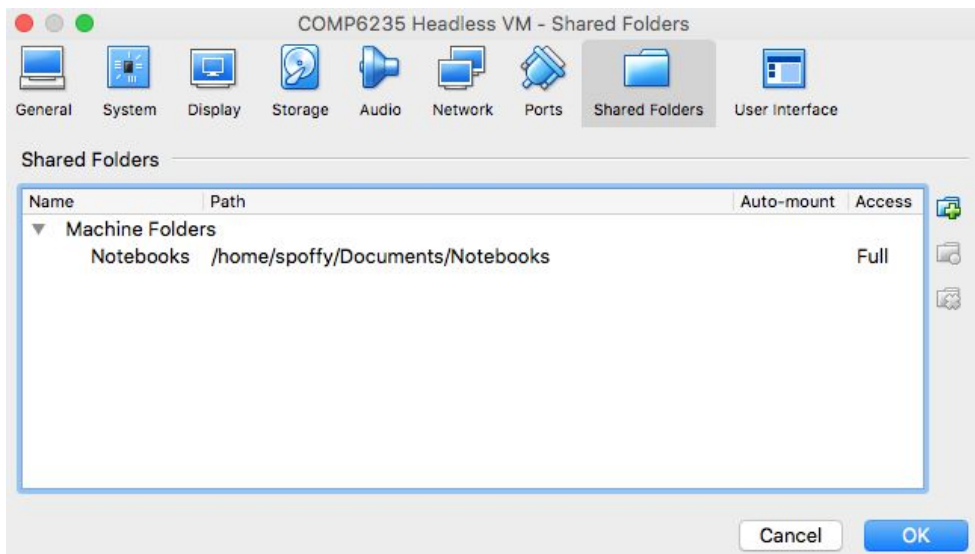
3. Modify the setting (right-click on the VM then click Settings...) for Shared Folders (Folder Path set to your Documents folder, then at Folder Name field put Notebooks, see examples below)

4. Start the VM (** note: do not start the vm if you have not done step 3.)
5. Type ./run-jupyter
6. Open a browser on your local machine, type in <http://localhost:8888/> (password is comp6235)
7. Download COMP6235 MongoDB Tutorial 1819.ipynb to your local machine, from Jupyter notebook, upload the file you just downloaded.

这个文档目录就是用户名下的文档（中文的也不影响，到VirtualBox自动会改为英文），这个共享目录设置完之后，本机上传的文件是存在虚拟镜像系统里了，要在本机目录下再存一下，需要在jupyter中另存为一下，默认存到设置的共享目录下（用户名目录下）或者Download（两种方法有时行有时不行，1取决于在VirtualBox中是否设置，2取决于VirtualBox中装的jupyter中是否装了Download的相关应用）。

如果第三步没做，在虚拟机装的系统里就无法输入

Jupyter notebook, MongoDB装在虚拟机上，browser用本机的

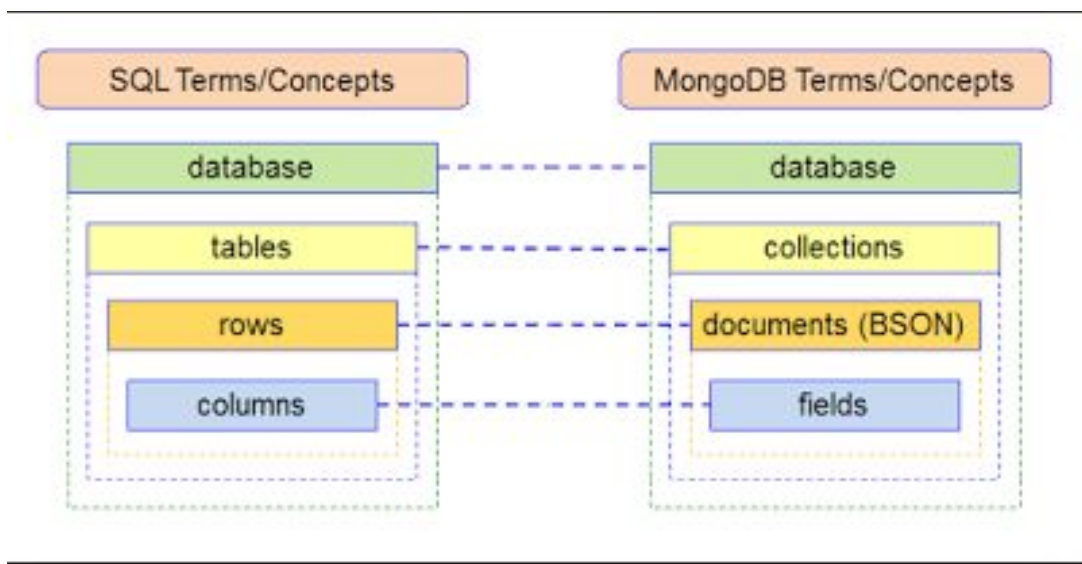


Overview of MongoDB

What is MongoDB

- Open source NoSQL database
- Document-oriented
- Stores JSON-like documents (dynamic schemas)
- Includes a strong query language (javascript)
- Powerful, flexible indexing (including geospatial)
- Sharding and replication
- Cross-Platform (many drivers)

Source - <http://www.10gen.com/what-is-mongodb>



¹ <https://www.analyticsvidhya.com/blog/2015/06/beginners-guide-mongodb/>

Tutorial

1. Connect to MongoDB
2. Create database and collection
3. Insert data to collection, or import data from a file into a collection
4. Query the data and organise the output
5. Aggregation Framework