**Exercise Guide CLO 2019**

**VMWare VM:** [**https://oxclo.s3-eu-west-1.amazonaws.com/oxclo2019-vmware.zip**](https://oxclo.s3-eu-west-1.amazonaws.com/oxclo2019-vmware.zip) **VirtualBox VM:** [**https://oxclo.s3-eu-west-1.amazonaws.com/oxclo2019-vb.ova**](https://oxclo.s3-eu-west-1.amazonaws.com/oxclo2019-vb.ova)*(or better: see me for a hard disk with VMWare and VirtualBox images)* **VM U/P: oxclo/oxclo**

**AWS login link:**

[**https://ox-clo.signin.aws.amazon.com/console**](https://ox-clo.signin.aws.amazon.com/console)

**AWS login: oxcloXX / oxcloXX** (change password first time). **Mac Login: cloXX / CLO** (change password first time).

**Exercises:** [**https://freo.me/oxclo-exercises**](https://freo.me/oxclo-exercises)

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| Exercise | Description |
| 1 | Getting Started with Amazon AWS / EC2 |
| 2 | Scaling an app in EC2. Userdata. |
| 3 | Elastic load-balancing in AWS |
| 4 | Simple Docker Docker-machine |
| 5 | Python, Pandas, Matplotlib |
| 6 | Apache Hadoop introduction |
| 7 | Apache Spark and Python  Word Count |
| 8 | Apache Spark on EC2, flintrock, Jupyter on EC2 |
| 9 | More Spark! |
| 10 | Even More Spark! |
| 11 | Basic Cassandra, Importing data via Spark |
| 12 | Understanding CQL |
| 13 | Clustering k-means |
| 14 | Stream Processing |