ENGINEERING BLOG

OPEN-EDX

admin July 23, 2019 Leave a comment Edit

It is a MOOC platform setup to enhance NextGurukul reach amongst customers. This hosts free courses prepared by NextEducation. Currently this platform hosts courses used by HR, Marketing, Sales and Customers.

This platform in production operates as two microsites (not multi-tenant system) **openedx.nextgurukul.in (Courses offered to internal people), mooc.nextgurukul.in (Courses offered to public)**

OpenEdx components :

1. Rabbit MQ
2. Memcached
3. MySQL
4. MongoDB
5. Elasticsearch
6. EdxApp – [Python, Ruby]

> Edx ginkgo version didn't have the capability of deploying it as docker containers. So we took the compiled bitnami image of openedx and removed datastore, message queue and caching dependencies from it. Thus the current version we have is a thin lightweight docker image for application with apache.

CUSTOM CHANGES :

1. Made an NextGurukulPlatform an OAuth identity provider
2. Made configurations for two microsites
3. Files with code changes are placed as part of the dockerfile

> **EDX dependencies installation procedure can be found here**

> **EDX-NGP OAuth flow documentation can be found here**

Edx has detailed **documentation** on every feature they have developed, for feature specific changes please refer it. Any kind of backend changes, can be done from the **backend admin console**.

CURRENT SETUP :

On dedicated/shared servers

1. Memcached
2. RabbitMQ
3. Elasticsearch (version 1.5)

Datastores shared with microservices

1. MySQL (No MSR for this)
2. MongoDB

Application servers

1. Edx Application running on t2-large machine

CURRENT DOCKER SETUP :

1. Base dockerfile (with most of the application specific code)
2. Environment specific dockerfile with respective configuration details

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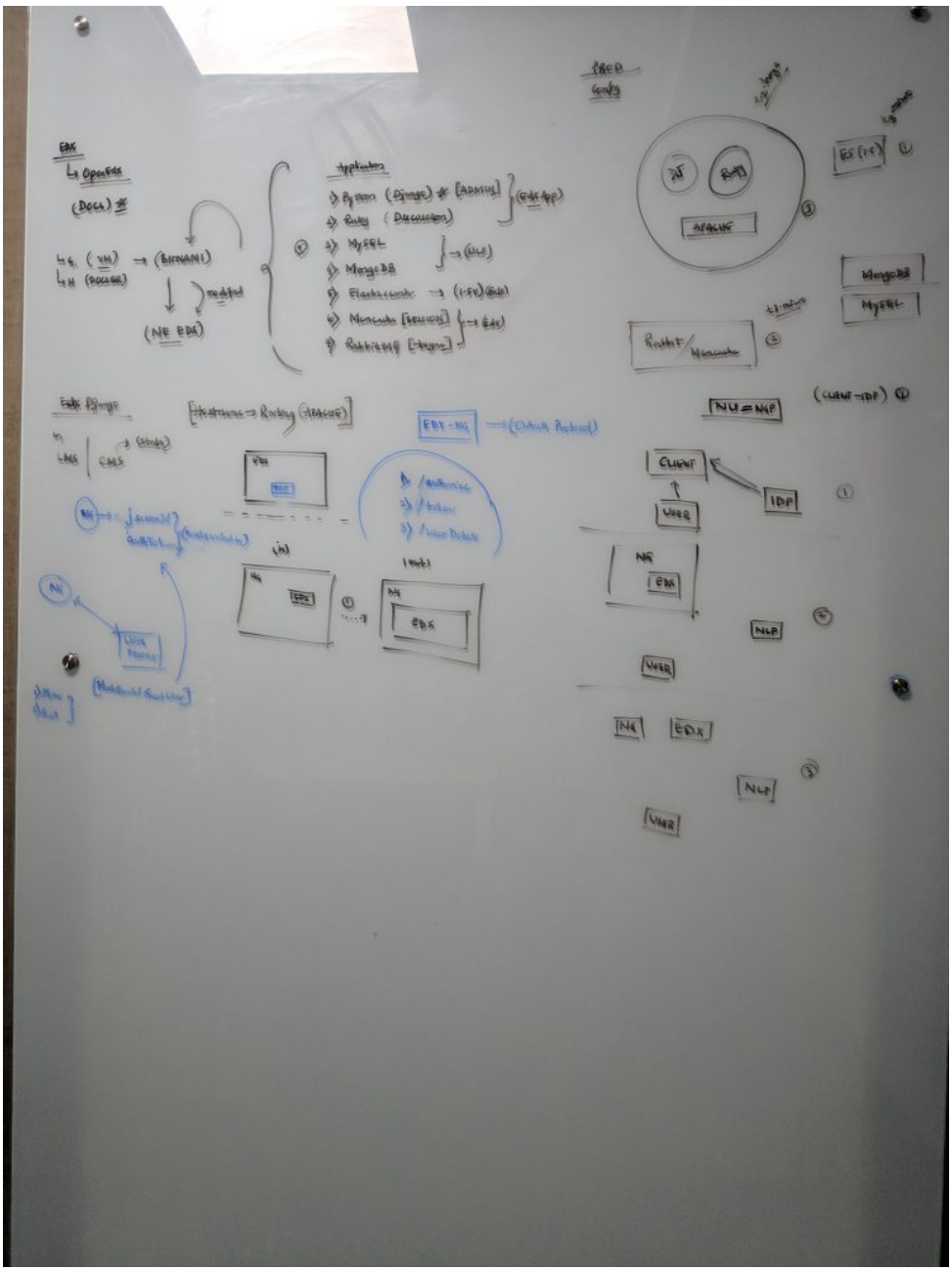
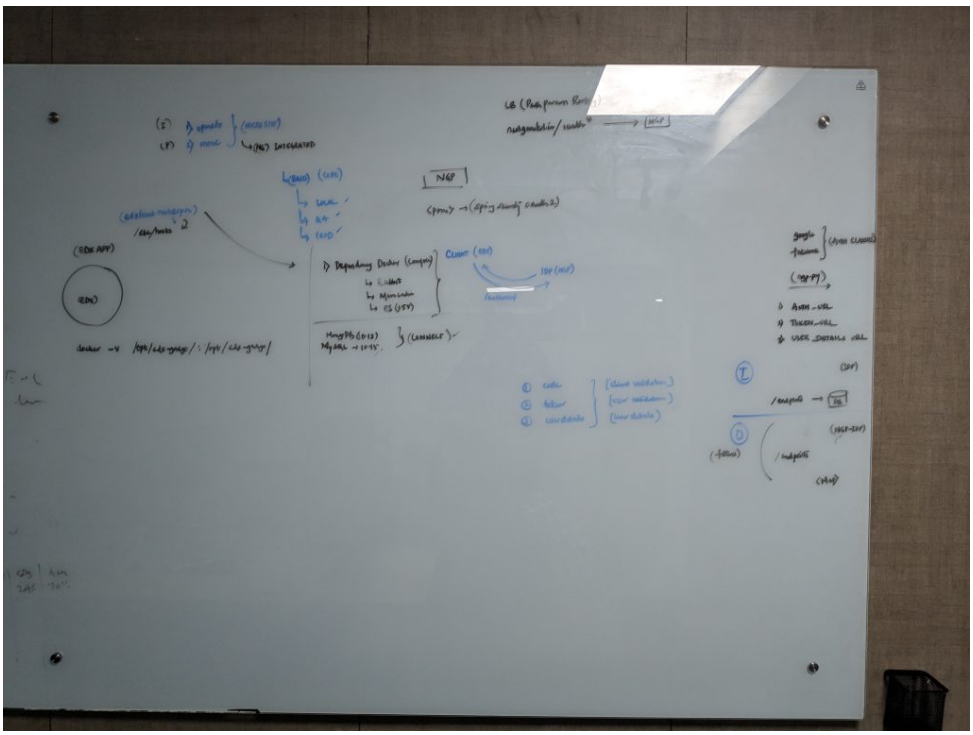
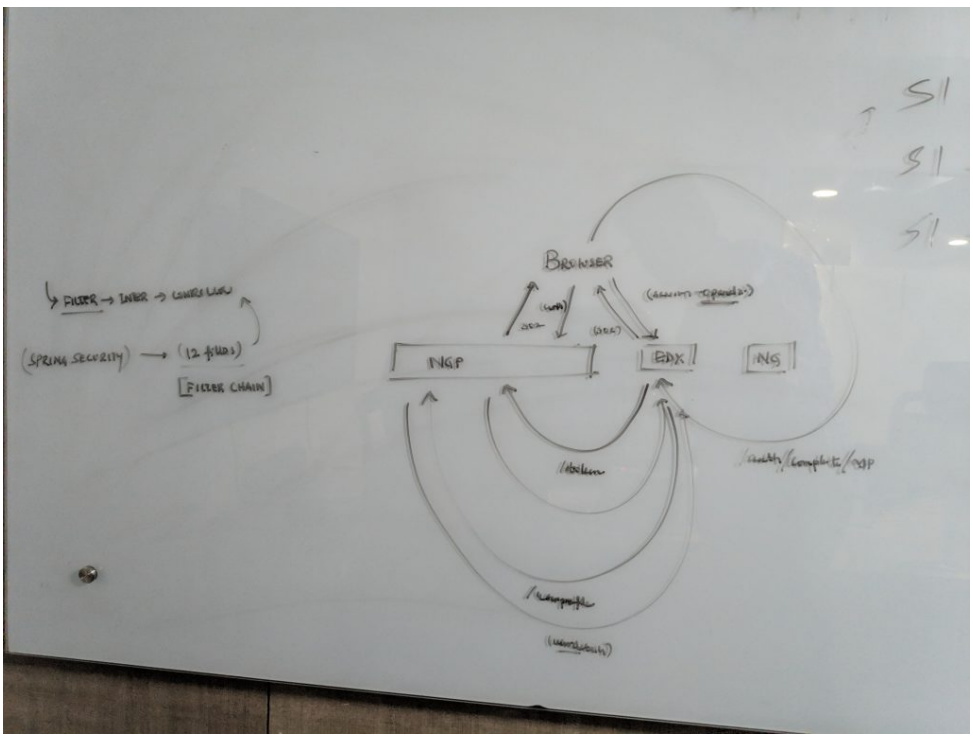
FOR LOCAL INSTALLATION :

1. Take the dependency docker compose file from "svn://192.168.10.7/iconcept/b
2. Run the compose file, to make the dependent services containers up
3. Please note the ***IP*** of the machine in which you are making the dependent con
4. In the machine where edx application container is running add the following
5. To run it in developement mode, add a volume mount to the edx container i,e

" docker run -dit -v /opt/edx-ginkgo/:/opt/edx-ginkgo -p 8080:8080 -p 18010:18







SVN : svn://192.168.10.7/iconcept/branches/services/OpenEdx

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