**Stop all the services of Juniper machine**

*sudo /edx/bin/supervisorctl status all*

Confirm all services are RUNNING

*sudo /edx/bin/supervisorctl stop all*

*sudo /edx/bin/supervisorctl status all*

Confirm all services are STOP

**Set Title of your terminal**

vi .bashrc

ADD AT THE END OF FILE

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

# function to set terminal title

function set-title(){

if [[ -z "$ORIG" ]]; then

ORIG="$PS1"

fi

TITLE="\[\e]2;$\*\a\]"

PS1="${ORIG}${TITLE}"

}

if [ ! -z "$SET\_TITLE" ]; then

set-title $SET\_TITLE;

export SET\_TITLE=;

fi

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_..

Save & exit

*source .bashrc*

*set-title J-122*

**CHECK THE VERSION and DIFFERENCE IN THE CODE OF THE MACHINE (Juniper)**

*cd /var/tmp/configuration/*

*git branch*

\* (HEAD detached at open-release/juniper.2) -------------------------is this correct?

Master

Whatever is the result of git branch, that is the version of the machine.

If it is not as per our requirement, we can reject the machine.

*git diff*

OUTPUT OF diff

…………………………………….

edx@edx:/var/tmp/configuration$ git diff

diff --git a/playbooks/roles/edxapp/defaults/main.yml b/playbooks/roles/edxapp/defaults/main.yml

index acae012..a0afe30 100644

--- a/playbooks/roles/edxapp/defaults/main.yml

+++ b/playbooks/roles/edxapp/defaults/main.yml

@@ -220,7 +220,7 @@ EDXAPP\_ENABLE\_EDXNOTES: false

EDXAPP\_ENABLE\_CREDIT\_ELIGIBILITY: false

EDXAPP\_ENABLE\_CREDIT\_API: false

-EDXAPP\_CUSTOM\_COURSES\_EDX: false

+EDXAPP\_CUSTOM\_COURSES\_EDX: true

EDXAPP\_ENABLE\_SYSADMIN\_DASHBOARD: false

# This is different from lms/envs/common.py

……………………………………. ---------------------------------- done and checked

cd

**Create user on MySQL Server:**

mysql -u root -p

select User, Host, Password, authentication\_string from mysql.user;

create user 'mig'@'' IDENTIFIED BY 'mig';

GRANT ALL PRIVILEGES ON \*.\* TO 'mig'@'' WITH GRANT OPTION ;

FLUSH PRIVILEGES;

select User, Host, Password, authentication\_string from mysql.user;

-- confirm “mig” user is created in the table mysql.user

-- -------------

***-- | mig | | \*D2AAD2A31D306F85F8505A035751E2ABFEFA16B9 |***

-- -------------

Exit

**Check on 10.129.103.122:**

mysql -u mig -p

Enter password:mig

--------------------------------------------done

**To access** **MySQL Server from Remote machine:**

sudo vi /etc/mysql/mysql.conf.d/mysqld.cnf

Search **bind-address**

**bind-address = 0.0.0.0 # 127.0.0.1**

**sudo /etc/init.d/mysql restart**

**sudo /etc/init.d/mysql status**

**Now it worked YA**

Check from the remote machine(personal machine):

mysql -u mig -p -h 10.129.103.122

Enter password:mig

show databases;

exit

----------------------------done

**For Mongo database Server:**

**Mongo**

**show dbs**

**If error, exit.**

**Error is coming**

**Now try for**

**mongo -u admin -p password localhost:27017 --authenticationDatabase admin**

**Admin user not there, create a superuser in Mongo database**

sudo vi /etc/mongod.conf

……………………………………..

security:

authorization: enabled

keyFile: /etc/mongodb\_key

……………………………………

Make it as follow

……………………………………

#security:

#authorization: enabled

#keyFile: /etc/mongodb\_key

……………………………………-------------- somebody came to my house

You continue I will follow later

OK

mongo

use admin

show users;

There are no users--------------------

There should be a user

……………………………………

{

"\_id" : "admin.admin",

"userId" : UUID("22cd9045-1969-4b56-b5fc-1d1f28b2cf24"),

"user" : "admin",

"db" : "admin",

"roles" : [

{

"role" : "root",

"db" : "admin"

}

]

}

……………………………………

db.createUser({user:"edxadmin",pwd:"password",roles:[{role:"root",db:"admin"}]});

Successfully added user.

show users;

# confirm new user is added

……………………………………

{

"\_id" : "admin.admin",

"userId" : UUID("22cd9045-1969-4b56-b5fc-1d1f28b2cf24"),

"user" : "admin",

"db" : "admin",

"roles" : [

{

"role" : "root",

"db" : "admin"

}

]

}

{

"\_id" : "admin.edxadmin",

"userId" : UUID("04ef012f-af97-4f9e-800b-7ac2ca6316b0"),

"user" : "edxadmin",

"db" : "admin",

"roles" : [

{

"role" : "root",

"db" : "admin"

}

]

}

……………………………………

{

"\_id" : "test.edxadmin",

"userId" : UUID("de685e5e-b3b4-4c87-a72b-02d366c44384"),

"user" : "edxadmin",

"db" : "test",

"roles" : [

{

"role" : "root",

"db" : "admin"

}

]

}

----------------------

exit

Reset security

sudo vi /etc/mongod.conf

……………………………………

#security:

#authorization: enabled

#keyFile: /etc/mongodb\_key

……………………………………

Make it as follow

……………………………………..

security:

authorization: enabled

keyFile: /etc/mongodb\_key

……………………………………

sudo service mongod restart

sudo service mongod status

**Login in Mongo using newly created user**

mongo -u edxadmin -p password localhost:27017 --authenticationDatabase admin

---------------- done till here

**To access mongo server from remote machine:**

sudo vi /etc/mongod.conf

Search **bind\_ip**

……………………………………

bindIp: 0.0.0.0 #127.0.0.1

……………………………………SAVE AND EXIT

sudo service mongod restart

netstat -tpln

# CONFIRM

……………………………………

tcp 0 0 0.0.0.0:27017 0.0.0.0:\* LISTEN -

……………………………………

Check from the remote machine(personal machine):

Prerequisites: mongo-client

mongo -u edxadmin -p password 10.129.103.122:27017 --authenticationDatabase admin

Show dbs;

IN MONGO, HOW MANY USERS ARE THERE? Please check all above purple lines

**Note version of databases on the Juniper machine:**

mongod --version

……………………………………

db version v3.6.17

git version: 3d6953c361213c5bfab23e51ab274ce592edafe6

OpenSSL version: OpenSSL 1.0.2g 1 Mar 2016

allocator: tcmalloc

modules: none

build environment:

distmod: ubuntu1604

distarch: x86\_64

target\_arch: x86\_64

……………………………………

**In 121**

db version v3.6.17

git version: 3d6953c361213c5bfab23e51ab274ce592edafe6

OpenSSL version: OpenSSL 1.0.2g 1 Mar 2016

allocator: tcmalloc

modules: none

build environment:

distmod: ubuntu1604

distarch: x86\_64

target\_arch: x86\_64

-----------------------------------------------

mysql --version

……………………………………

mysql Ver 14.14 Distrib 5.6.32, for debian-linux-gnu (x86\_64) using EditLine wrapper

……………………………………

For **121**

mysql Ver 14.14 Distrib 5.6.32, for debian-linux-gnu (x86\_64) using EditLine wrapper

-----------------------------------------------

**Check OS version of OpenedX Juniper machine( and Ironwood):**

lsb\_release -rs

16.04

**To note users, collections and indexes of each user Mongo databases**

mongo -u edxadmin -p password localhost:27017 --authenticationDatabase admin

……………………………………

use edxapp

show users

show collections

db.getCollectionNames().forEach(function(collname) {

var c=db[collname].count();

print("Number of documents in the",collname," collection:",c);

var indexes= db[collname].getIndexes();

var i=indexes.length;

print("Number of indexes on the",collname,"collection:",i);

})

……………………………………

rs0:PRIMARY> show users

{

"\_id" : "edxapp.edxapp",

"userId" : UUID("e4f8b8e1-0c92-48cf-ba41-5856fa1aeca9"),

"user" : "edxapp",

"db" : "edxapp",

"roles" : [

{

"role" : "readWrite",

"db" : "edxapp"

}

]

}

rs0:PRIMARY> show collections

fs.chunks

fs.files

modulestore.active\_versions

modulestore.definitions

modulestore.structures

Number of documents in the fs.chunks collection: 1206

Number of indexes on the fs.chunks collection: 2

Number of documents in the fs.files collection: 1167

Number of indexes on the fs.files collection: 2

Number of documents in the modulestore.active\_versions collection: 1

Number of indexes on the modulestore.active\_versions collection: 1

Number of documents in the modulestore.definitions collection: 163

Number of indexes on the modulestore.definitions collection: 1

Number of documents in the modulestore.structures collection: 6

Number of indexes on the modulestore.structures collection: 1

……………………………………

Number of documents in the fs.chunks collection: 1206

Number of indexes on the fs.chunks collection: 2

Number of documents in the fs.files collection: 1167

Number of indexes on the fs.files collection: 2

Number of documents in the modulestore.active\_versions collection: 1

Number of indexes on the modulestore.active\_versions collection: 1

Number of documents in the modulestore.definitions collection: 163

Number of indexes on the modulestore.definitions collection: 1

Number of documents in the modulestore.structures collection: 6

Number of indexes on the modulestore.structures collection: 1

--------------------------------

use cs\_comments\_service

show users

show collections

db.getCollectionNames().forEach(function(collname) {

var c=db[collname].count();

print("Number of documents in the",collname," collection:",c);

var indexes= db[collname].getIndexes();

var i=indexes.length;

print("Number of indexes on the",collname,"collection:",i);

})

……………………………………

rs0:PRIMARY> show users

{

"\_id" : "cs\_comments\_service.cs\_comments\_service",

"userId" : UUID("aaa7a867-071b-47b1-869a-4eaf5b3091ac"),

"user" : "cs\_comments\_service",

"db" : "cs\_comments\_service",

"roles" : [

{

"role" : "readWrite",

"db" : "cs\_comments\_service"

}

]

}

rs0:PRIMARY> show collections

users

Number of documents in the users collection: 2

Number of indexes on the users collection: 1

……………………………………

Number of documents in the users collection: 2

Number of indexes on the users collection: 1

-------------------------------------------

use config

show users

show collections

db.getCollectionNames().forEach(function(collname) {

var c=db[collname].count();

print("Number of documents in the",collname," collection:",c);

var indexes= db[collname].getIndexes();

var i=indexes.length;

print("Number of indexes on the",collname,"collection:",i);

})

rs0:PRIMARY> show users

rs0:PRIMARY> show collections

system.sessions

transactions

2020-09-11T11:04:59.511+0530 E QUERY [thread1] Error: count failed: {

"operationTime" : Timestamp(1599802492, 1),

"ok" : 0,

"errmsg" : "not authorized on config to execute command { count: \"system.sessions\", query: {}, fields: {}, lsid: { id: UUID(\"99451a2d-50c2-4efc-90d1-0e930730850a\") }, $clusterTime: { clusterTime: Timestamp(1599802492, 1), signature: { hash: BinData(0, 0080DB740AFE95EF2BA5CB8F8F2DD7AFB84E7C12), keyId: 6851300945469374466 } }, $db: \"config\" }",

"code" : 13,

"codeName" : "Unauthorized",

"$clusterTime" : {

"clusterTime" : Timestamp(1599802492, 1),

"signature" : {

"hash" : BinData(0,"AIDbdAr+le8rpcuPjy3Xr7hOfBI="),

"keyId" : NumberLong("6851300945469374466")

}

}

} :

\_getErrorWithCode@src/mongo/shell/utils.js:25:13

DBQuery.prototype.count@src/mongo/shell/query.js:391:11

DBCollection.prototype.count@src/mongo/shell/collection.js:1584:12

@(shell):2:11

@(shell):1:1

--------------------------------

Same error in 121

---------------------

**Git clone the migration** **on remote machine**

……………………………………

*git clone http://<username>@gitlab.cse.iitb.ac.in/IITBombayX-Utilities/iitbombayxdbupgrade.git*

*cd iitbombayxdbupgrade*

*git checkout Ginkgo2ToIronwood*

*cd Script*

……………………………………

***To take a dump of the fresh machine:***

* Change the directory

***cd DumpScript***

* Set MySQL server detail(*IP, port and user credential*) and Mongo server detail(*IP, port and user credential*) of the old release machine in the ***parameter.config*** file. R*un the script as per the instructions given in README.md file*

***vi parameter.config***

After changing the parameters, save and exit

…………………………………………………………………………

# Mysql credentials

mysql\_server=10.129.103.122

mysqluser=mig

mysqlpass=mig

mysqlport=3306

# Mongo credentials

mongo\_server=10.129.103.122

mongoauthdb=admin

mongouser=edxadmin

mongopass=password

mongoport=27017

…………………………………………………………………………

Please check

***mysql -u mig -p -h 10.129.103.121***

***Mysql user***

***| mig | | \*D2AAD2A31D306F85F8505A035751E2ABFEFA16B9 | |***

***CHECK THIS ALSO***

**To access** **MySQL Server from Remote machine:**

sudo vi /etc/mysql/mysql.conf.d/mysqld.cnf

Search **bind-address**

**bind-address = 0.0.0.0 # 127.0.0.1**

***Restart mysql services***

***I did all that***

***Let me check***

***Giving message as cant connect***

***Check***

***Mysql access from the machine***

***mysql -u mig -p -h 10.129.103.121***

***pLEASE CHECK MONGO***

***..... For MySQL .....***

***Reading MySQL user databases names...***

***mysql: [Warning] Using a password on the command line interface can be insecure.***

***Dumping MySQL structure and data in a single file...***

***Dumping MySQL structure...***

***dump.sh: line 32: mysqldump: command not found***

***Dumping MySQL data...***

***dump.sh: line 35: mysqldump: command not found***

***..... End MySQL .....***

***THis error is coming ??????***

***IS IT OK?***

***I did edxuser*** edxadmin

***in mongodb***

* *Run the script as per the instructions given in README.md file. (script is provided by Open edX)*

***bash dump.sh***

**Note:** After running the above script, check the current working directory.

* A folder is created, with a name "mongo-dump-<timestamp -yyyymmddThhmmss>", eg., "mongo-dump-20180814T164638". It contains files having a dump of mongo databases.
* A .sql file with a name "mysql-structure-data-<timestamp-yyyymmddThhmmss>.sql" is created, eg., "mysql-structure-data-20180814T164638.sql". It is a dump of all user databases.
* A .tgz file is created, with a name "openedx-data-<timestamp -yyyymmddThhmmss>", eg., "openedx-data-20180814T164638.tgz", which is tar of all dump of MySQL and Mongo databases ( mentioned above)).

mkdir FJ122

mv <all result> FJ122

……………………………………

**To Note all git branches and it’s diff of newly geted machine**

cd ..

*# scp -r ListGitBranch <user\_remote\_machine>@<IP\_remote\_machine>:/home/edx*

*scp -r ListGitBranch edx@10.129.103.122:/home/edx*

On Juniper Machine

……………………………………

cd

cd *ListGitBranch*

*ls*

*bash listGitBranch.sh*

*ls*

*gitdiff20.txt gitdiff21.txt gitdiff34.txt listGitBranch.sh ReadMe.md*

gitdiff20.txt gitdiff21.txt gitdiff33.txt listGitBranch.sh ReadMe.md ------ in 121

It is OK.

*# copy log of listGitBranch.sh script*

*vi log.txt*

*Past the log in file*

*Check all diff files(just view)*

***……………………***

*THE BASIC SETTING, FRESH DUMP AND MACHINE OBSERVATION IS OVER.*

Done till here

***To check the migration script that is provided by the OpenedX***

*BLANK DATA MIGRATION:*

*Open following link*

[*https://edx.readthedocs.io/projects/edx-installing-configuring-and-running/en/latest/platform\_releases/juniper.html*](https://edx.readthedocs.io/projects/edx-installing-configuring-and-running/en/latest/platform_releases/juniper.html)

*On Juniper machine*

*vi /edx/app/edx\_ansible/edx\_ansible/util/install/native.sh*

*In above link and in file I observe*

*Steps for dropping the database tables used by djcelery is avoid*

***----- where exactly did you check?????????????????***

***I sent one link, ok***

*---------------------------------*

***On the Juniper machine(SCRIPT REQUIREMENT)***

***Check OS***

*lsb\_release -rs*

*16.04*

***Check MySQL root user with IP 127.0.0.1***

*mysql -u root -p -h 127.0.0.1*

*show databases;*

*exit*

***Check Mongodb root user with IP 127.0.0.1***

*mongo -u edxadmin -p password 127.0.0.1:27017 --authenticationDatabase admin*

*show dbs;*

*use edxapp;*

*exit*

*-------------------- done till here*

*cd /var/tmp/configuration/*

*git branch*

*………………………*

*\* (HEAD detached at open-release/juniper.2)*

*Master*

*Same in 121*

*………………………*

*cd*

*export OPENEDX\_RELEASE=<copy\_git\_branch>*

*E.g. export OPENEDX\_RELEASE=open-release/juniper.2*

*echo $OPENEDX\_RELEASE*

*……………………… done*

***Do the above setting on Ironwood.master(Fresh) machine.***

***Ensure git branch “open-release/ironwood.master”***

***Stop all services on the Ironwood machine.***

***Dump the data on the Ironwood machine. Using the DumpScript.***

***Ensure the Juniper machine is Fresh, Otherwise make it fresh***

***Restore the Ironwood data into the Juniper machine.***

***On remote machine:***

*scp -r FI27 edx@10.129.103.122:/home/edx*

*On the Juniper machine*

*tree FI27/*

***Restore:***

*………………………*

*mysql -uroot -p < FI27/mysql-structure-data-20200702T182214.sql*

*mongorestore -u edxadmin -p password -h localhost --authenticationDatabase admin --drop -d edxapp FI27/mongo-dump-20200702T182214/edxapp*

*mongorestore -u edxadmin -p password -h localhost --authenticationDatabase admin --drop -d cs\_comments\_service FI27/mongo-dump-20200702T182214/cs\_comments\_service*

*………………………done*

***Run the Juniper migrations***

Verify the openedx version in ‘/var/tmp/configuration’ directory

*lynx internet.iitb.ac.in*

*………………………*

*ls -la /edx/app/edx\_ansible/edx\_ansible/util/install*

*-rw-r--r-- 1 edx-ansible edx-ansible 5744 Jul 20 02:13 native.sh*

*-rw-r--r-- 1 edx-ansible edx-ansible 5744 Jul 20 02:13 native.sh*

*………………………*

*sudo chmod 777 /edx/app/edx\_ansible/edx\_ansible/util/install/native.sh*

*………………………*

*ls -la /edx/app/edx\_ansible/edx\_ansible/util/install*

*-rwxrwxrwx 1 edx-ansible edx-ansible 5744 Jul 20 02:13 native.sh*

*-rwxrwxrwx 1 edx-ansible edx-ansible 5744 Jul 20 02:13 native.sh*

*………………………*

*sudo vi /edx/app/edx\_ansible/edx\_ansible/util/install/native.sh*

*SEARCH:CONFIGURATION\_VERSION*

Add the two lines before CONFIGURATION\_VERSION line

*………………………*

*OPENEDX\_RELEASE=open-release/juniper.2*

*echo ${OPENEDX\_RELEASE}*

*CONFIGURATION\_VERSION=${CONFIGURATION\_VERSION-$OPENEDX\_RELEASE}*

*Do we need to change anything here. This line is there in file like this*

*No, it is only for showing exact place of OPENEDX\_RELEASE variable*

*………………………*

*Run the script*

*/edx/app/edx\_ansible/edx\_ansible/util/install/native.sh --tags migrate*

*………………………does this take long time ?? I am here------------------*

*No it’s blank database..wait few minute*

*Capturing output to /home/edx/logs/install-20200911-143038.log*

*Installation started at 2020-09-11 14:30:38*

*Installing release 'open-release/juniper.2'*

*Reading package lists...*

*Building dependency tree...*

*Reading state information...*

*python-software-properties is already the newest version (0.96.20.9).*

*0 upgraded, 0 newly installed, 0 to remove and 12 not upgraded.*

*Cannot add PPA: 'ppa:~ubuntu-toolchain-r/ubuntu/test'.*

*ERROR: '~ubuntu-toolchain-r' user or team does not exist.*

*Err:1 https://packagecloud.io/rabbitmq/rabbitmq-server/ubuntu xenial InRelease*

*Connection timed out after 120000 milliseconds*

*Err:2 https://deb.nodesource.com/node\_12.x xenial InRelease*

*Connection timed out after 120000 milliseconds*

*Err:3 http://packages.elastic.co/elasticsearch/1.5/debian stable InRelease*

*Cannot initiate the connection to packages.elastic.co:80 (2a04:4e42:24::729). - connect (101: Network is unreachable) [IP: 2a04:4e42:24::729 80]*

*Err:4 http://ppa.edx.org xenial InRelease*

*Could not connect to ppa.edx.org:80 (52.217.44.139), connection timed out*

*Err:5 http://in.archive.ubuntu.com/ubuntu xenial InRelease*

*Cannot initiate the connection to in.archive.ubuntu.com:80 (2403:8940:3:1::f). - connect (101: Network is unreachable) [IP: 2403:8940:3:1::f 80]*

*Err:6 http://in.archive.ubuntu.com/ubuntu xenial-updates InRelease*

*Cannot initiate the connection to in.archive.ubuntu.com:80 (2403:8940:3:1::f). - connect (101: Network is unreachable) [IP: 2403:8940:3:1::f 80]*

*Err:7 http://in.archive.ubuntu.com/ubuntu xenial-backports InRelease*

*Cannot initiate the connection to in.archive.ubuntu.com:80 (2403:8940:3:1::f). - connect (101: Network is unreachable) [IP: 2403:8940:3:1::f 80]*

*Err:8 http://ppa.launchpad.net/git-core/ppa/ubuntu xenial InRelease*

*Cannot initiate the connection to ppa.launchpad.net:80 (2001:67c:1560:8008::15). - connect (101: Network is unreachable) [IP: 2001:67c:1560:8008::15 80]*

*Err:9 http://ppa.launchpad.net/ubuntu-toolchain-r/test/ubuntu xenial InRelease*

*Cannot initiate the connection to ppa.launchpad.net:80 (2001:67c:1560:8008::15). - connect (101: Network is unreachable) [IP: 2001:67c:1560:8008::15 80]*

*………………………*

***Don’t stop .***

***Open new tab for the same machine and set internet connection using following:***

***lynx internet.iitb.ac.in***

***Check the the migration script, now it’s running***

***MIGRATION SCRIPT RUN SUCCESSFULLY***

***………………………… NOt yet completed***

***localhost : ok=10 changed=9 unreachable=0 failed=0***

***MIGRATION SCRIPT RUN WITH FAIL***

***localhost : ok=10 changed=9 unreachable=<ANY\_NUMBER> failed=<ANY\_NUMBER>***

***…………………………***

***If successful,***

***After migration we need to study the database?????***

***We are just checking Is the script working fine? If need we can***

***In mongo***

***mongo -u edxadmin -p password 127.0.0.1:27017 --authenticationDatabase admin***

***show dbs***

use edxapp

show users

show collections

db.getCollectionNames().forEach(function(collname) {

var c=db[collname].count();

print("Number of documents in the",collname," collection:",c);

var indexes= db[collname].getIndexes();

var i=indexes.length;

print("Number of indexes on the",collname,"collection:",i);

})

use cs\_comments\_service

show users

show collections

db.getCollectionNames().forEach(function(collname) {

var c=db[collname].count();

print("Number of documents in the",collname," collection:",c);

var indexes= db[collname].getIndexes();

var i=indexes.length;

print("Number of indexes on the",collname,"collection:",i);

})

***………………………………. Done till here***

*rs0:PRIMARY> show dbs*

*admin 0.000GB*

*config 0.000GB*

*cs\_comments\_service 0.000GB*

*edxapp 0.014GB*

*local 0.033GB*

*show dbs;*

*admin 0.000GB*

*config 0.000GB*

*cs\_comments\_service 0.000GB*

*edxapp 0.014GB*

*local 0.034GB*

*rs0:PRIMARY> use edxapp*

*switched to db edxapp*

*rs0:PRIMARY> show users*

*{*

*"\_id" : "edxapp.edxapp",*

*"userId" : UUID("e4f8b8e1-0c92-48cf-ba41-5856fa1aeca9"),*

*"user" : "edxapp",*

*"db" : "edxapp",*

*"roles" : [*

*{*

*"role" : "readWrite",*

*"db" : "edxapp"*

*}*

*]*

*}*

*rs0:PRIMARY> show collections*

*fs.chunks*

*fs.files*

*modulestore.active\_versions*

*modulestore.definitions*

*modulestore.structures*

*rs0:PRIMARY> db.getCollectionNames().forEach(function(collname) {*

*... var c=db[collname].count();*

*... print("Number of documents in the",collname," collection:",c);*

*... var indexes= db[collname].getIndexes();*

*... var i=indexes.length;*

*... print("Number of indexes on the",collname,"collection:",i);*

*... })*

*Number of documents in the fs.chunks collection: 1206*

*Number of indexes on the fs.chunks collection: 2*

*Number of documents in the fs.files collection: 1167*

*Number of indexes on the fs.files collection: 1*

*Number of documents in the modulestore.active\_versions collection: 1*

*Number of indexes on the modulestore.active\_versions collection: 1*

*Number of documents in the modulestore.definitions collection: 168*

*Number of indexes on the modulestore.definitions collection: 1*

*Number of documents in the modulestore.structures collection: 8*

*Number of indexes on the modulestore.structures collection: 1*

*………………*

*Before migration result*

Number of documents in the fs.chunks collection: 1206

Number of indexes on the fs.chunks collection: 2

Number of documents in the fs.files collection: 1167

Number of indexes on the fs.files collection: 2

Number of documents in the modulestore.active\_versions collection: 1

Number of indexes on the modulestore.active\_versions collection: 1

Number of documents in the modulestore.definitions collection: **163**

Number of indexes on the modulestore.definitions collection: 1

Number of documents in the modulestore.structures collection: **6**

Number of indexes on the modulestore.structures collection: 1

*………………. Same till here*

*rs0:PRIMARY> use cs\_comments\_service*

*switched to db cs\_comments\_service*

*rs0:PRIMARY> show users*

*{*

*"\_id" : "cs\_comments\_service.cs\_comments\_service",*

*"userId" : UUID("aaa7a867-071b-47b1-869a-4eaf5b3091ac"),*

*"user" : "cs\_comments\_service",*

*"db" : "cs\_comments\_service",*

*"roles" : [*

*{*

*"role" : "readWrite",*

*"db" : "cs\_comments\_service"*

*}*

*]*

*}*

*rs0:PRIMARY> show collections*

*users*

*rs0:PRIMARY> db.getCollectionNames().forEach(function(collname) {*

*... var c=db[collname].count();*

*... print("Number of documents in the",collname," collection:",c);*

*... var indexes= db[collname].getIndexes();*

*... var i=indexes.length;*

*... print("Number of indexes on the",collname,"collection:",i);*

*... })*

*Number of documents in the users collection: 1*

*Number of indexes on the users collection: 1*

***……………………………………***

*Before migration result*

Number of documents in the users collection: **2**

Number of indexes on the users collection: 1

***……………………………………..same***

***mysql -u root -p***

***mysql> SELECT COUNT(\*), TABLE\_SCHEMA***

***-> FROM `information\_schema`.`TABLES`***

***-> WHERE TABLE\_SCHEMA***

***-> NOT IN ('mysql','information\_schema','performance\_schema')***

***-> GROUP BY TABLE\_SCHEMA;***

***+----------+---------------+***

***| COUNT(\*) | TABLE\_SCHEMA |***

***+----------+---------------+***

***| 19 | analytics-api |OK***

***| 24 | dashboard |OK***

***| 146 | discovery |OK***

***| 163 | ecommerce |OK 151 TO 163***

***| 431 | edxapp |OK 410 TO 431***

***| 2 | edxapp\_csmh |OK***

***| 11 | xqueue |OK***

***+----------+---------------+***

***7 rows in set (0.09 sec)***

*cd iitbombayxdbupgrade/Script/Auto\_IncrementScript*

*Set parameters in parameter.config file*

*Don't forget to set the rel\_result\_path.*

*vi parameter.config*

*Run*

*bash Auto\_IncrementCount.sh*

***……………………………………***

***Restart all services of the Juniper machine.***

*………………………*

sudo /edx/bin/supervisorctl status all

sudo /edx/bin/supervisorctl start all

sudo /edx/bin/supervisorctl status all

till all services start

*………………………*

***Check the front end functionality***

***Create user***

***Active the user***

*mysql -u root -p edxapp*

*Use edxapp*

*select \* from auth\_user;*

*<id of newly created user>*

*update auth\_user set is\_active=1 where id=13;*

***Create Admin user***

*mysql -u root -p edxapp*

*Use edxapp*

*select \* from auth\_user where username="admin";*

*update auth\_user set password="pbkdf2\_sha256$20000$Mb5lzVtoK6Wi$D+LiMceGfuX1uDJRPa+Sm1EfgS/ONUWNSYVXXYA3kP0=" where username="admin";*

*Username:admin*

*email:*[*admin@example.com*](mailto:admin@example.com)

*Password:admin123*

***Create course***

SET Schedule

***Enroll user***

*TO NEWLY CREATED COURSE*

***Add entries in discussion form***

*Error posting your message.*

*Your request could not be processed. Refresh the page and try again.*

*While all posts are posted.*

***WIKI***

*Click on WIKI*

*EDIT CONTENT AND SAVE*

*CLICK ON PROGRESS*

***Check instructor dashboard***

***there is some issue on cms,***

***Courses and it’s outline are not display in cms***

[***http://10.129.103.122:18010/home***](http://10.129.103.122:18010/home)

***While the courses are available on lms***

[***http://10.129.103.122/courses***](http://10.129.103.122/courses)

***If everything is ok, that's a successful migration done with the proper setting.***

***……………………………………***

***Auto\_Increment***

*cd iitbombayxdbupgrade/Script/Auto\_IncrementScript*

*Set parameters in parameter.config file*

*Don't forget to set the rel\_result\_path.*

*vi parameter.config*

*Run*

*bash Auto\_IncrementCount.sh*

*---------------------------------------------------*

***Record count***

*cd iitbombayxdbupgrade/Script/RecordCountScript*

*Set parameters in parameter.config file*

*Don't forget to set the rel\_result\_path.*

*vi parameter.config*

*Run*

*bash count\_rows.sh*

***Fresh Juniper Machine:***

***Move fresh dump on Juniper machine.***

*scp -r FJ122 edx@10.129.103.122:/home/edx*

*------------------------------------------------------*

**Stop all services of Juniper machine:**

*sudo /edx/bin/supervisorctl status all*

*sudo /edx/bin/supervisorctl stop all*

*sudo /edx/bin/supervisorctl status all*

*------------------------------------------------------*

*tree FJ122/*

*mysql -uroot -p < FJ122/mysql-structure-data-20200910T113859.sql*

*mongo -u edxadmin -p password 127.0.0.1:27017 --authenticationDatabase admin*

*show dbs*

*use edxapp*

*db.dropDatabase()*

*use cs\_comments\_service*

*db.dropDatabase()*

*show dbs*

*exit*

*mongorestore -u edxadmin -p password -h localhost --authenticationDatabase admin --drop -d edxapp FJ122/mongo-dump-20200910T113859/edxapp*

*mongorestore -u edxadmin -p password -h localhost --authenticationDatabase admin --drop -d cs\_comments\_service FJ122/mongo-dump-20200910T113859/cs\_comments\_service*

*---------------------------------------------------Done till here*

*To make sure, Is the machine Fresh?*

*------------------------------------------------------*

*mongo -u edxadmin -p password 127.0.0.1:27017 --authenticationDatabase admin*

***show dbs***

use edxapp

show users

show collections

db.getCollectionNames().forEach(function(collname) {

var c=db[collname].count();

print("Number of documents in the",collname," collection:",c);

var indexes= db[collname].getIndexes();

var i=indexes.length;

print("Number of indexes on the",collname,"collection:",i);

})

use cs\_comments\_service

show users

show collections

db.getCollectionNames().forEach(function(collname) {

var c=db[collname].count();

print("Number of documents in the",collname," collection:",c);

var indexes= db[collname].getIndexes();

var i=indexes.length;

print("Number of indexes on the",collname,"collection:",i);

})

Exit

………………………

rs0:PRIMARY> show dbs

admin 0.000GB

config 0.000GB

cs\_comments\_service 0.000GB

edxapp 0.014GB

local 0.062GB

rs0:PRIMARY> use edxapp

switched to db edxapp

rs0:PRIMARY> show users

{

"\_id" : "edxapp.edxapp",

"userId" : UUID("e4f8b8e1-0c92-48cf-ba41-5856fa1aeca9"),

"user" : "edxapp",

"db" : "edxapp",

"roles" : [

{

"role" : "readWrite",

"db" : "edxapp"

}

]

}

rs0:PRIMARY> show collections

fs.chunks

fs.files

modulestore.active\_versions

modulestore.definitions

modulestore.structures

rs0:PRIMARY> db.getCollectionNames().forEach(function(collname) {

... var c=db[collname].count();

... print("Number of documents in the",collname," collection:",c);

... var indexes= db[collname].getIndexes();

... var i=indexes.length;

... print("Number of indexes on the",collname,"collection:",i);

... })

Number of documents in the fs.chunks collection: 1206

Number of indexes on the fs.chunks collection: 2

Number of documents in the fs.files collection: 1167

Number of indexes on the fs.files collection: 2

Number of documents in the modulestore.active\_versions collection: 1

Number of indexes on the modulestore.active\_versions collection: 1

Number of documents in the modulestore.definitions collection: 163

Number of indexes on the modulestore.definitions collection: 1

Number of documents in the modulestore.structures collection: 6

Number of indexes on the modulestore.structures collection: 1

rs0:PRIMARY>

rs0:PRIMARY> use cs\_comments\_service

switched to db cs\_comments\_service

rs0:PRIMARY> show users

{

"\_id" : "cs\_comments\_service.cs\_comments\_service",

"userId" : UUID("aaa7a867-071b-47b1-869a-4eaf5b3091ac"),

"user" : "cs\_comments\_service",

"db" : "cs\_comments\_service",

"roles" : [

{

"role" : "readWrite",

"db" : "cs\_comments\_service"

}

]

}

rs0:PRIMARY> show collections

users

rs0:PRIMARY> db.getCollectionNames().forEach(function(collname) {

... var c=db[collname].count();

... print("Number of documents in the",collname," collection:",c);

... var indexes= db[collname].getIndexes();

... var i=indexes.length;

... print("Number of indexes on the",collname,"collection:",i);

... })

Number of documents in the users collection: 2

Number of indexes on the users collection: 1

rs0:PRIMARY>

bye

……………………….

mysql -u root -p

SELECT COUNT(\*), TABLE\_SCHEMA

FROM `information\_schema`.`TABLES`

WHERE TABLE\_SCHEMA

NOT IN ('mysql','information\_schema','performance\_schema')

GROUP BY TABLE\_SCHEMA;

+----------+---------------+

| COUNT(\*) | TABLE\_SCHEMA |

+----------+---------------+

| 19 | analytics-api |

| 24 | dashboard |

| 146 | discovery |

| 151 | ecommerce |

| 410 | edxapp |

| 2 | edxapp\_csmh |

| 11 | xqueue |

+----------+---------------+

7 rows in set (0.02 sec)

*------------------------------------------------------*

**Start all services of Juniper machine:**

*sudo /edx/bin/supesudorvisorctl status all*

*sudo /edx/bin/supervisorctl start all*

*sudo /edx/bin/supervisorctl status all*

*Wait Till all start*

*------------------------------------------------------*

***Check the front end functionality***

***Create user***

***Active the user***

*mysql -u root -p edxapp*

*Use edxapp*

*select \* from auth\_user;*

*<id of newly created user>*

*update auth\_user set is\_active=1 where id=****15****;*

***Create Admin user***

*mysql -u root -p edxapp*

*Use edxapp*

*select \* from auth\_user where username="admin";*

*update auth\_user set password="pbkdf2\_sha256$20000$Mb5lzVtoK6Wi$D+LiMceGfuX1uDJRPa+Sm1EfgS/ONUWNSYVXXYA3kP0=" where username="admin";*

*Username:admin*

*email:*[*admin@example.com*](mailto:admin@example.com)

*Password:admin123*

***Create course***

***Admin login:***

*10.129.103.122:18010*

***Create course:***

*Click “New Course” Button*

# ***Issue:*** *Course Outline loading …..*

Click on “+ New Section” button

# ***Issue:*** *Course Outline loading …..*

SET Schedule

***OK***

***there is some issue on cms,***

***Courses and it’s outline are not display in cms***

[***http://10.129.103.122:18010/home***](http://10.129.103.122:18010/home)

***While the courses are available on lms***

[***http://10.129.103.122/courses***](http://10.129.103.122/courses)

***Raise ISSUE***

***------------------------------------***

***Fresh Ironwood.master 10.129.103.143 machine:***

*Check the machine about data on it.*

*Move “****FI27”***

***scp -r FI27 edx@10.129.103.143:/home/edx***

**Stop all services of Ironwood.master machine:**

*sudo /edx/bin/supervisorctl status all*

*sudo /edx/bin/supervisorctl stop all*

*sudo /edx/bin/supervisorctl status all*

*-------------------------------*

***mongo -u edxadmin -p password 127.0.0.1:27017 --authenticationDatabase admin***

*show dbs*

*use edxapp*

*db.dropDatabase()*

*use cs\_comments\_service*

*db.dropDatabase()*

*show dbs*

*exit*

***-------------------------------***

*mysql -uroot -p < FI27/mysql-structure-data-20200702T182214.sql*

*mongorestore -u edxadmin -p password -h localhost --authenticationDatabase admin --drop -d edxapp FI27/mongo-dump-20200702T182214/edxapp*

*mongorestore -u edxadmin -p password -h localhost --authenticationDatabase admin --drop -d cs\_comments\_service FI27/mongo-dump-20200702T182214/cs\_comments\_service*

-----------------------------------------

mysql -u root -p

SELECT COUNT(\*), TABLE\_SCHEMA

FROM `information\_schema`.`TABLES`

WHERE TABLE\_SCHEMA

NOT IN ('mysql','information\_schema','performance\_schema')

GROUP BY TABLE\_SCHEMA;

+----------+---------------+

| COUNT(\*) | TABLE\_SCHEMA |

+----------+---------------+

| 17 | analytics-api |

| 23 | dashboard |

| 123 | discovery |

| 133 | ecommerce |

| 374 | edxapp |

| 2 | edxapp\_csmh |

| 11 | xqueue |

+----------+---------------+

7 rows in set (0.01 sec

***Run Auto increment script:***

*cd iitbombayxdbupgrade/Script/Auto\_IncrementScript*

*vi parameter.config*

*……………………………………*

*rel\_result\_path="../../Result/J/Test/Round0"*

*# .............................................................*

*# MySQL Server credentials*

*mysql\_server=10.129.103.143*

*mysqluser=mig*

*mysqlpass=mig*

*mysqlport=3306*

*…………………………………………………...*

*bash Auto\_IncrementCount.sh*

***--------------------------------------------------------------------------------------------------***

***Compare Fresh Ironwood.master Vs Migrated Fresh data of Ironwood.master on Juniper.2 :***

***On fresh J-121***

*mysql -uroot -p < FI27/mysql-structure-data-20200702T182214.sql*

*mongorestore -u edxadmin -p password -h localhost --authenticationDatabase admin --drop -d edxapp FI27/mongo-dump-20200702T182214/edxapp*

*mongorestore -u edxadmin -p password -h localhost --authenticationDatabase admin --drop -d cs\_comments\_service FI27/mongo-dump-20200702T182214/cs\_comments\_service*

***Run the Juniper migrations***

Verify the openedx version in ‘/var/tmp/configuration’ directory

*lynx internet.iitb.ac.in*

*………………………*

export *OPENEDX\_RELEASE=open-release/juniper.2*

*echo ${OPENEDX\_RELEASE}*

*………………………*

*ls -la /edx/app/edx\_ansible/edx\_ansible/util/install*

*-rwxrwxrwx 1 edx-ansible edx-ansible 5744 Jul 20 02:13 native.sh*

*sudo vi /edx/app/edx\_ansible/edx\_ansible/util/install/native.sh*

*SEARCH:CONFIGURATION\_VERSION*

*………………..*

*Run the script*

*/edx/app/edx\_ansible/edx\_ansible/util/install/native.sh --tags migrate*

***Run Auto increment script:***

*cd iitbombayxdbupgrade/Script/Auto\_IncrementScript*

*vi parameter.config*

*……………………………………*

*rel\_result\_path="../../Result/J/Test/Round0"*

*# .............................................................*

*# MySQL Server credentials*

*mysql\_server=10.129.103.121*

*mysqluser=mig*

*mysqlpass=mig*

*mysqlport=3306*

*…………………………………………………...*

*bash Auto\_IncrementCount.sh*

=================================================================

**To find the new tables, deleted tables and upgraded tables list:**

cd iitbombayxdbupgrade/Result/J/Test/Round0/Auto\_IncrementResult

diff -wy --suppress-common-lines FI\_10.129.103.143\_20200914T180522/analytics-api.csv MJ\_10.129.103.122\_20200914T105112/analytics-api.csv > analytics-api.txt

diff -wy --suppress-common-lines FI\_10.129.103.143\_20200914T180522/dashboard.csv MJ\_10.129.103.122\_20200914T105112/dashboard.csv > dashboard.txt

diff -wy --suppress-common-lines FI\_10.129.103.143\_20200914T180522/discovery.csv MJ\_10.129.103.122\_20200914T105112/discovery.csv > discovery.txt

diff -wy --suppress-common-lines FI\_10.129.103.143\_20200914T180522/ecommerce.csv MJ\_10.129.103.122\_20200914T105112/ecommerce.csv > ecommerce.txt

diff -wy --suppress-common-lines FI\_10.129.103.143\_20200914T180522/edxapp.csv MJ\_10.129.103.122\_20200914T105112/edxapp.csv > edxapp.txt

diff -wy --suppress-common-lines FI\_10.129.103.143\_20200914T180522/edxapp\_csmh.csv MJ\_10.129.103.122\_20200914T105112/edxapp\_csmh.csv > edxapp\_csmh.txt

diff -wy --suppress-common-lines FI\_10.129.103.143\_20200914T180522/xqueue.csv MJ\_10.129.103.122\_20200914T105112/xqueue.csv > xqueue.txt

-------------------------------------------------------------

**Record Count:**

cd iitbombayxdbupgrade/Script/RecordCountScript

**Fresh Ironwood.master:**

**……………………………………..**

rel\_result\_path="../../Result/J/Test/Round0"

# .............................................................

# Server Details

# Mysql credentials

mysql\_server=10.129.103.143

mysql\_user=mig

mysql\_pass=mig

mysql\_port=3306

# Mongo credentials

mongo\_server=10.129.103.143

mongo\_authdb=admin

mongo\_user=edxadmin

mongo\_pass=password

mongo\_port=27017

**……………………………………..**

bash count\_rows.sh

**……………………………………..**

**Migrated Juniper.2:**

vi parameter.config

…………….

rel\_result\_path="../../Result/J/Test/Round0"

# .............................................................

# Server Details

# Mysql credentials

mysql\_server=10.129.103.121

mysql\_user=mig

mysql\_pass=mig

mysql\_port=3306

# Mongo credentials

mongo\_server=10.129.103.121

mongo\_authdb=admin

mongo\_user=edxadmin

mongo\_pass=password

mongo\_port=27017

…………………………………..

bash count\_rows.sh

…………………………………………………………………………………….

**Result Location: edx@10.129.103.121:/home/edx/Result**

…………………………………………………………………………………….

**Git branch rename from the Ginkgo2ToIronwood to the GinkgoToJuniper**

……………………………………………………………………………………

Changes in Report script

cd iitbombayxdbupgrade/Script/ReportScript

mkdir MySQLfilesIJ

As per the following table count, the files in the “MySQLfilesIJ” folders are updated that are the input to the “data\_report.sh” script.

| TABLE\_SCHEMA | FI | FJ | MJ | Deleted | New | Common | Upgraded |
| --- | --- | --- | --- | --- | --- | --- | --- |
| analytics-api | 17 | 19 | 19 | 0 | 2 | 13 | 4 |
| dashboard | 23 | 24 | 24 | 0 | 1 | 21 | 2 |
| discovery | 123 | 146 | 146 | 26 | 49 | 91 | 6 |
| ecommerce | 133 | 151 | 163 | 0 | 30 | 122 | 11 |
| edxapp | 374 | 410 | 431 | 6 | 63 | 364 | 4 |
| edxapp\_csmh | 2 | 2 | 2 | 0 | 0 | 1 | 1 |
| xqueue | 11 | 11 | 11 | 0 | 0 | 8 | 3 |
| blockstore |  | 0 | 0 | 0 | 0 | 0 | 0 |
| reports | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| edx\_notes\_api |  | 0 | 0 | 0 | 0 | 0 | 0 |

***Notes:***

***edxapp.thumbnail\_kvstore' doesn't exist ???***

***In edxapp database, the migrated database following has auto increment count 2 but it has no record.***

1. ***waf****fle\_flag*
2. *waffle\_flag\_groups*
3. *waffle\_flag\_users*

Push in git

<http://gitlab.cse.iitb.ac.in/IITBombayX-Utilities/iitbombayxdbupgrade/-/tree/GinkgoToJuniper/Script/ReportScript/MySQLfilesIJ>