########################################

# You're probably also setting up CM. Here are instructions and common commands.

mv CMDataServer3.2.0.3.zip ~/Projects/CMDataServer/

unzip CMDataServer3.2.0.3.zip

cp .env .env\_reference\_save\_YYMMDD

ifconfig

vi .env

DB\_USER=postgres

DB\_PASSWORD=rmbps123

DB\_HOST=192.168.2.110

DB\_PORT=5432

DB\_DATABASE=CentralManager

LOCALHOST =192.168.2.110

MOUNTED\_IMG\_DIR="/home/rmb/ImagesOnVisionServer"

MOUNTED\_EFS\_DIR=/home/rmb/efs/mnt/Data1/Images/public

TARGET\_IMG\_DIR="/home/rmb/Images"

NODE\_ENV=production

PORT=3002

JWT\_KEY=xkdrlKAoi9x0mZnFtI6A1xO3eJA\_Dnkt9PDrSttoRDl0uOAo1zv4kTM8eKBAxL4EMerq7ifD1L\_yJIhpjtKCyU4X9W\_J50OEPhaDxvpDf1wGBFp0Istitw3Esd7mJHvn9Hf-ch5LRaMTawR\_vvhb7ibrLLurzMR-S1UzFNLRvj8

JWT\_EXPIRY\_SECONDS=400000

SM\_URL=192.168.2.29:3002

npm install --production

**to just start the server:**

npm start

and visit port 3002 <http://192.168.2.110:3002/>

**to start the server, echo output to logfile, and background it...**

foo=$(date +%y%m%d\_%H%M%S)

npm start 2>&1 | tee -a logfile\_$foo

<ctrl-Z> to suspend it

jobs

bg 1

(fg 1 moves to foreground...)

To have it continue after exiting SSH - disown the background jobs

disown

**tail -f the logfile**

If you've returned to a host that is running and has a logfile, and want to track logfile, use tail -f

tail -f logfile\_yymmdd

**cleaning up stray executions**

ps -aef | grep npm (and kill those)

ps -aef | grep node (and kill those)

zzzzzzzzzzzzzzzzzzzzzzzzz

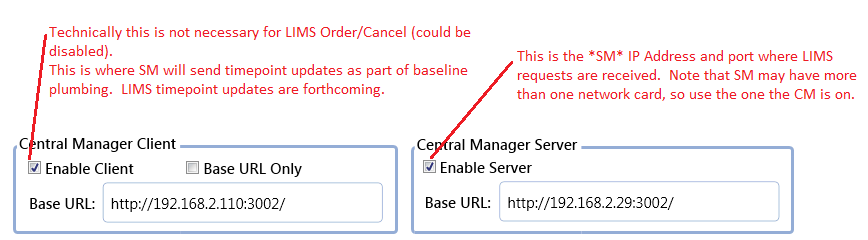
**From:** Chris Winsor   
**Sent:** Thursday, August 13, 2020 9:28 AM  
**To:** Pankaj Agarwal <PAgarwal@rapidmicrobio.com>; S Sathish <SSathish@rapidmicrobio.com>  
**Cc:** Courtney Hiltz <CHiltz@rapidmicrobio.com>; Petr Klapka <PKlapka@rapidmicrobio.com>; Bruce Brennan <BBrennan@rapidmicrobio.com>; Hoang Thai <HThai@rapidmicrobio.com>; Akhila Nair <anair@rapidmicrobio.com>; akhilanair@rapidmicro.com  
**Subject:** RE: Question on CM (LIMS Order)...

A LIMS Order been placed by SQA using testbench via CM and SM.  Thank you CJ, Satish, Pankaj and Hoang!

The mistakes in SQA’s steps were:

SM does not register itself with SM – the SM is identified in the .env file.  So there should be no expectation of an entry in the postgres database table or messages during SM startup.

SM UI Technician/System Settings/Configure was wrong.  Here is the corrected and explained:



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

Chris Winsor <[CWinsor@rapidmicrobio.com](mailto:CWinsor@rapidmicrobio.com)>  
**Cc:** Courtney Hiltz <[CHiltz@rapidmicrobio.com](mailto:CHiltz@rapidmicrobio.com)>; Petr Klapka <[PKlapka@rapidmicrobio.com](mailto:PKlapka@rapidmicrobio.com)>; Bruce Brennan <[BBrennan@rapidmicrobio.com](mailto:BBrennan@rapidmicrobio.com)>; Hoang Thai <[HThai@rapidmicrobio.com](mailto:HThai@rapidmicrobio.com)>; Akhila Nair <[anair@rapidmicrobio.com](mailto:anair@rapidmicrobio.com)>; [akhilanair@rapidmicro.com](mailto:akhilanair@rapidmicro.com); S Sathish <[SSathish@rapidmicrobio.com](mailto:SSathish@rapidmicrobio.com)>  
**Subject:** Re: Question on CM (LIMS Order)...

Hello Sathish,

Can you please check and help Chris on the below issue?

Thanks,

Pankaj

**From:** Chris Winsor <[CWinsor@rapidmicrobio.com](mailto:CWinsor@rapidmicrobio.com)>  
**Sent:** Thursday, August 13, 2020 4:34 PM  
**To:** Pankaj Agarwal <[PAgarwal@rapidmicrobio.com](mailto:PAgarwal@rapidmicrobio.com)>  
**Cc:** Courtney Hiltz <[CHiltz@rapidmicrobio.com](mailto:CHiltz@rapidmicrobio.com)>; Petr Klapka <[PKlapka@rapidmicrobio.com](mailto:PKlapka@rapidmicrobio.com)>; Bruce Brennan <[BBrennan@rapidmicrobio.com](mailto:BBrennan@rapidmicrobio.com)>; Hoang Thai <[HThai@rapidmicrobio.com](mailto:HThai@rapidmicrobio.com)>; Akhila Nair <[anair@rapidmicrobio.com](mailto:anair@rapidmicrobio.com)>; [akhilanair@rapidmicro.com](mailto:akhilanair@rapidmicro.com) <[akhilanair@rapidmicro.com](mailto:akhilanair@rapidmicro.com)>; S Sathish <[SSathish@rapidmicrobio.com](mailto:SSathish@rapidmicrobio.com)>  
**Subject:** RE: Question on CM (LIMS Order)...

Thank you Pankaj

We are making progress but not done.  At this point CM responds to  get\_health\_ready  and I can get auth token.  But it rejects postOrder      I observe there are no entries in the gdinstrument  table on CM.

Here is the relevant information:

rmb@ip-192-168-2-110:~/Projects/cmWebApps/CMDataServer$ more .env

DB\_USER=postgres

DB\_PASSWORD=rmbps123

DB\_HOST=192.168.2.110

DB\_PORT=5432

DB\_DATABASE=CentralManager

LOCALHOST =192.168.2.110

MOUNTED\_IMG\_DIR="/home/rmb/ImagesOnVisionServer"

MOUNTED\_EFS\_DIR=/home/rmb/efs/mnt/Data1/Images/public

TARGET\_IMG\_DIR="/home/rmb/Images"

NODE\_ENV=production

PORT=3002

JWT\_KEY=xkdrlKAoi9x0mZnFtI6A1xO3eJA\_Dnkt9PDrSttoRDl0uOAo1zv4kTM8eKBAxL4EMerq7ifD1L\_yJIhpjtKCyU4X9W\_J50OEPhaDxvpDf1wGBFp0Istitw3Esd7m

JHvn9Hf-ch5LRaMTawR\_vvhb7ibrLLurzMR-S1UzFNLRvj8

JWT\_EXPIRY\_SECONDS=400000

SM\_URL=192.168.2.29:3002

Command to run:

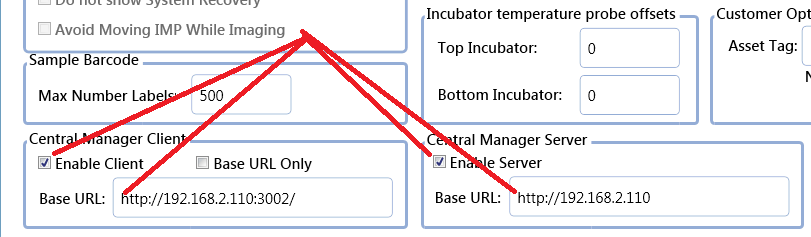
$ npm install –production

$ npm start

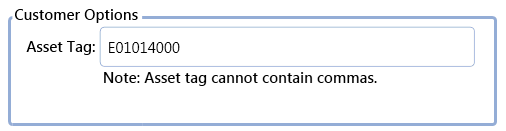
On the SM side:

1) LIMS is enabled

2) server and client IPs set in Technician/Configuration



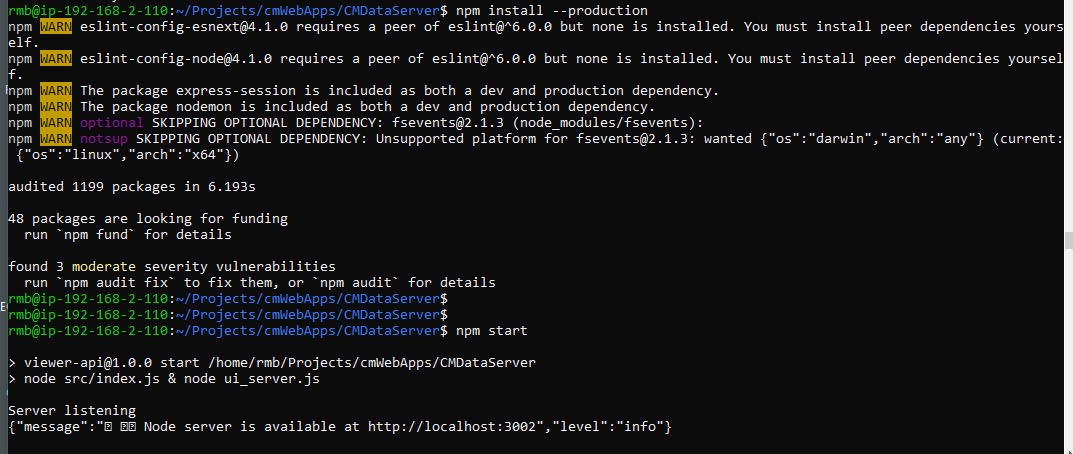
3) I have noted the the asset tag in Technician/Configuration.   On startup SM my expectation is CM will upload this to CM database (register itself with CM).  Later, a LIMS Order/Cancel command specifying Instrument\_ID as the target. SM will look through its list of registered SMs for one with an Asset Tag that matches the Instrument\_ID of the LIMS request.  It will then forward the request to that SM IP address.



4) re-start SM.  SM will register itself with CM.

5) follow TSVnnnn specification to get auth token and get/post using the LIMS api.   This fails (

I do not see any messages from CM during SM startup.  I would expect SM to register and CM to log that.  My guess is that SM is not registering with CM.



I observe there are no entries in the gdinstrument  table.

The response from CM is

------- response from CM is here -------

r.headers = HTTPHeaderDict({'X-Powered-By': 'Express', 'Access-Control-Allow-Origin': '\*', 'Access-Control-Allow-Credentials': 'true', 'Content-Type': 'application/json; charset=utf-8', 'Content-Length': '25', 'ETag': 'W/"19-6yj64nxKXKdB8mXL9Km/CbKnqvs"', 'Date': 'Thu, 13 Aug 2020 11:01:04 GMT', 'Connection': 'keep-alive'})

r.status  = 400

Any suggestions?

Thanks,

Chris

**From:** Pankaj Agarwal <[PAgarwal@rapidmicrobio.com](mailto:PAgarwal@rapidmicrobio.com)>   
**Sent:** Wednesday, August 12, 2020 9:59 AM  
**To:** Chris Winsor <[CWinsor@rapidmicrobio.com](mailto:CWinsor@rapidmicrobio.com)>  
**Cc:** Courtney Hiltz <[CHiltz@rapidmicrobio.com](mailto:CHiltz@rapidmicrobio.com)>; Petr Klapka <[PKlapka@rapidmicrobio.com](mailto:PKlapka@rapidmicrobio.com)>; Bruce Brennan <[BBrennan@rapidmicrobio.com](mailto:BBrennan@rapidmicrobio.com)>; Hoang Thai <[HThai@rapidmicrobio.com](mailto:HThai@rapidmicrobio.com)>; Akhila Nair <[anair@rapidmicrobio.com](mailto:anair@rapidmicrobio.com)>; [akhilanair@rapidmicro.com](mailto:akhilanair@rapidmicro.com); S Sathish <[SSathish@rapidmicrobio.com](mailto:SSathish@rapidmicrobio.com)>  
**Subject:** RE: Question on CM (LIMS Order)...

Hello Chris,

Username is rmbadmin and password would be test@123.

Did you change the SM IP in the .env file under CMDataServer folder. If so then just verifies the SM is running fine and there I think CJ added the CM ip to accept the request as well.

Sathish,

Please add if I have missed anything.

Thanks,

Pankaj

**From:** Chris Winsor <[CWinsor@rapidmicrobio.com](mailto:CWinsor@rapidmicrobio.com)>   
**Sent:** 12 August 2020 08:34  
**To:** Pankaj Agarwal <[PAgarwal@rapidmicrobio.com](mailto:PAgarwal@rapidmicrobio.com)>  
**Cc:** Courtney Hiltz <[CHiltz@rapidmicrobio.com](mailto:CHiltz@rapidmicrobio.com)>; Petr Klapka <[PKlapka@rapidmicrobio.com](mailto:PKlapka@rapidmicrobio.com)>; Bruce Brennan <[BBrennan@rapidmicrobio.com](mailto:BBrennan@rapidmicrobio.com)>; Hoang Thai <[HThai@rapidmicrobio.com](mailto:HThai@rapidmicrobio.com)>; Akhila Nair <[anair@rapidmicrobio.com](mailto:anair@rapidmicrobio.com)>; [akhilanair@rapidmicro.com](mailto:akhilanair@rapidmicro.com)  
**Subject:** RE: Question on CM (LIMS Order)...

I need to get an auth token.  This appears to be a POST with username/password.  Is there a prespecified username/password?

Thanks,

Chris

**From:** Chris Winsor   
**Sent:** Tuesday, August 11, 2020 3:51 PM  
**To:** Pankaj Agarwal <[PAgarwal@rapidmicrobio.com](mailto:PAgarwal@rapidmicrobio.com)>  
**Cc:** Courtney Hiltz <[CHiltz@rapidmicrobio.com](mailto:CHiltz@rapidmicrobio.com)>; Petr Klapka <[PKlapka@rapidmicrobio.com](mailto:PKlapka@rapidmicrobio.com)>; Bruce Brennan <[BBrennan@rapidmicrobio.com](mailto:BBrennan@rapidmicrobio.com)>; Hoang Thai <[HThai@rapidmicrobio.com](mailto:HThai@rapidmicrobio.com)>; Akhila Nair <[anair@rapidmicrobio.com](mailto:anair@rapidmicrobio.com)>; [akhilanair@rapidmicro.com](mailto:akhilanair@rapidmicro.com)  
**Subject:** Question on CM (LIMS Order)...

Pankaj (or anyone)

I have updated CMDataServer and it appears to be running.

When I send a LIMS Order POST with fields below I get a 404 response.

Any suggestion on what I might be doing wrong?

Is there a logfile?  Should I be running anything other than   “--production”

Thanks,

Chris

