**Turner QA Environment Deployment**

* Jboss server(DC) :10.100.30.213

DC deployment path : [\\10.100.30.213\e$\jboss-eap-6.2\standalone\deployments](file:///\\10.100.30.213\e$\jboss-eap-6.2\standalone\deployments)

HBM path : [\\10.100.30.213\e$\jboss-eap-6.2\standalone\configuration\clear\mappings\6000](file:///\\10.100.30.213\e$\jboss-eap-6.2\standalone\configuration\clear\mappings\6000)

Image path : E:\jboss-eap-6.2\standalone\configuration\clear\GuvnorRepository\6000\TURNERTRACKERQA\IMG

To check logs DC server logs : E:\jboss-eap-6.2\standalone\log

* Webservice & Configurations : (10.100.30.223)

i.E:\Clear\web\WEB\_SERVICES

ii.E:\Clear\web\CONFIGURATIONS

iii.WS CustomDLL : E:\Clear\web\CONFIGURATIONS\XMLs

iv.To check logs : L:\Logs

* BC : E:\Clear\bc\_clear\BC (10.100.30.223)

BC CustomDLL: E:\Clear\bc\_clear\BC

* MC Manager &Agent (10.185.134.134)

Manager:

C:\Clear\JBOSS\jboss-eap-6.2\standalone\deployments

C:\Clear\JBOSS\jboss-eap-6.2\standalone\configuration

Check logs : \\10.185.134.134\c$\Clear\JBOSS \jboss-eap-6.2\standalone\log\MC-Logs

Agent:

C:\Clear\JBOSS\agent\jboss-eap-6.2\standalone\deployments

C:\Clear\JBOSS\agent\jboss-eap-6.2\standalone\configuration

Check logs: \\10.185.134.134\c$\Clear\JBOSS\agent\jboss-eap-6.2\standalone\log\MC-Logs

* Upgrade Tool : 10.100.30.213 E:\BC\_CLEAR\UpgradeTool\DotnetCore
* Env dll in 213 E:\BC\_CLEAR\UpgradeTool\DotnetCore\ PFT.Clear.Upgrade.Turner\_UAT.dll
* GAC path --223 server , C:\Windows\Microsoft.NET\assembly\GAC\_MSIL

All the Product & Custom (PFTPH) builds will be released in below path :

[\\192.168.150.180\Releases\Product](file:///\\192.168.150.180\Releases\Product)

[\\192.168.150.180\Releases\Custom](file:///\\192.168.150.180\Releases\Custom)

Jenkins URL : 10.100.30.222:8081

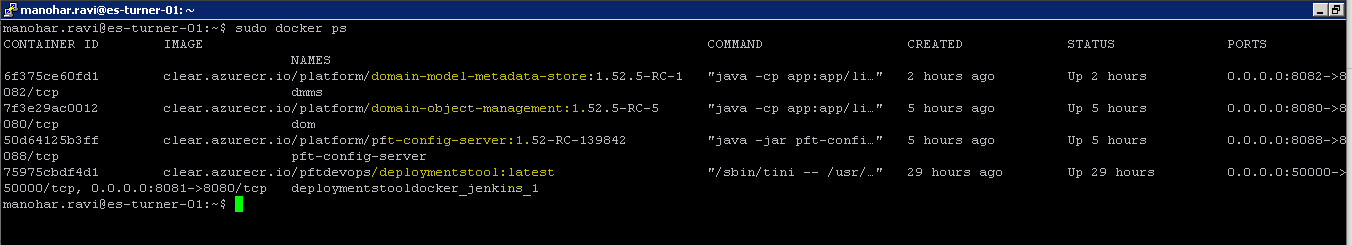
Username: Turner\_UAT

Password : Turner\_UAT

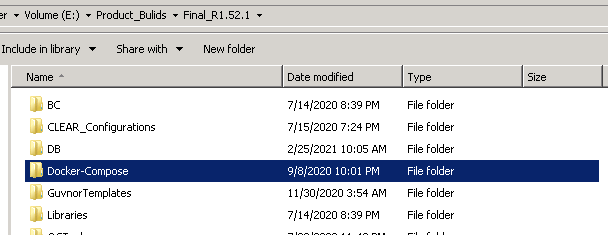
**Pre-requisite:**

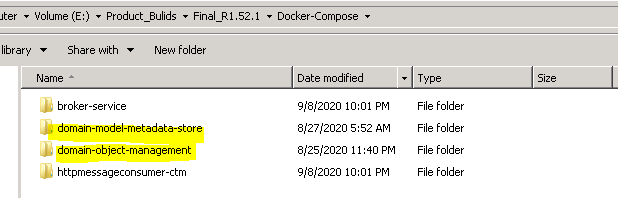
1.Before running Prep/when docker/server is restarted check the following:

* check the password of Jenkins , check status of docker , domain object management, config-server
* Check passwords of [ProductComponentsScripts & CustomComponentsScripts](#Scripts)
* [Ansible connection](#AnsibleCheck)
* Clear\_Configurations password
* Check jboss in 213 server is up
* Before deployment check the space of all servers a(213, 223, 33, 222 servers)
* In Product builds >Upgrade Tool > appsettings.json change the password to 33 DB password
* Make sure deploymentsTool docker ,domain-object-management , metadata-store , config-server is up before Prep

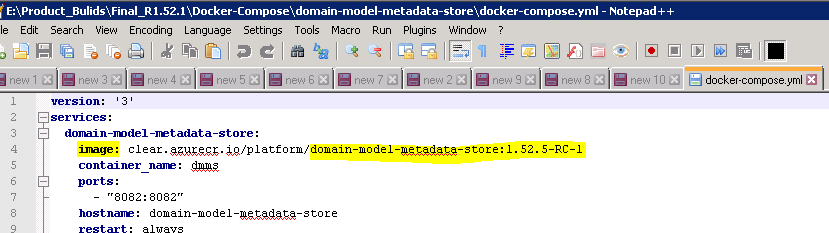


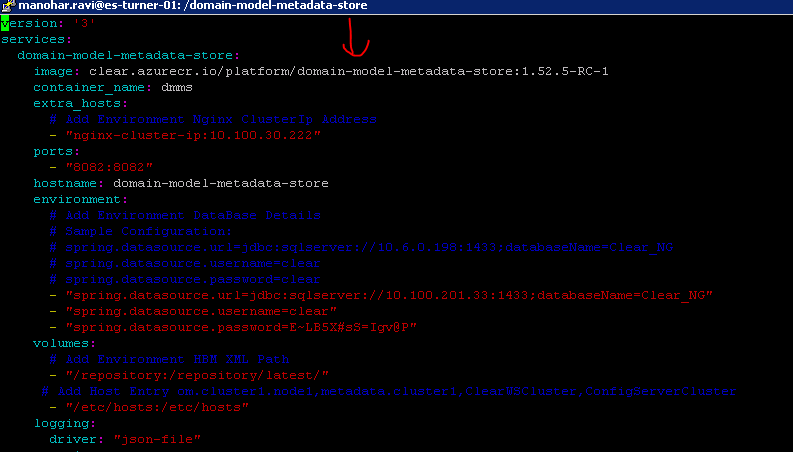
* In every Product build , check if the Docker-Compose is released, if released make the changes for released components in respective docker-compose.yml for images only.





Below is from Product build , change in docker-compose.yml in 222 machine and change the highlighted below for image





>cd domain-model-metadata-store

>sudo vi docker-compose.yml

> click i

> edit the changes

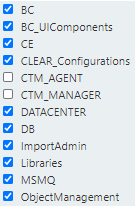
> Esc +Shift +colon

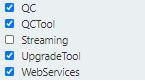
> :wq (to save)

Similarly do the changes for domain-object-management , config server when release in product build.

**Jenkins:**

* Jenkins is installed in 10.100.30.222(linux) machine
* OM ,Config server , IP : 10.100.30.222
* Deployment tool will be used to deploy below components :





MC ,Streaming & Tools should be deployed manually

Note:

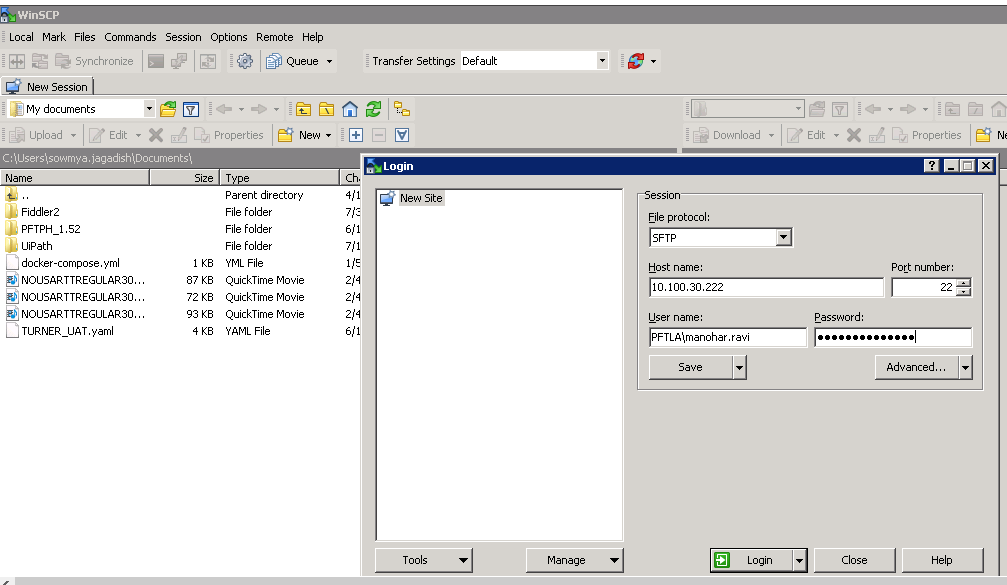
DC (JDK\_1.7)

MC (JDK\_1.8)

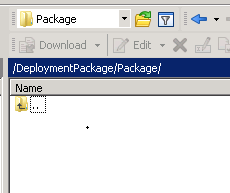
**Steps to copy builds from Release path to LADC and to 222 VM**

* Product builds & PFTPH should be copied from Release path to LADC 223 machine .
* These builds should be copied to 222 machine before starting deployment.
* To copy to 222 machine , login to any LADC(213/223) machine which is having WinSCP &Putty
* Open WinSCP 🡪 enter hostname and user credentials🡪Login

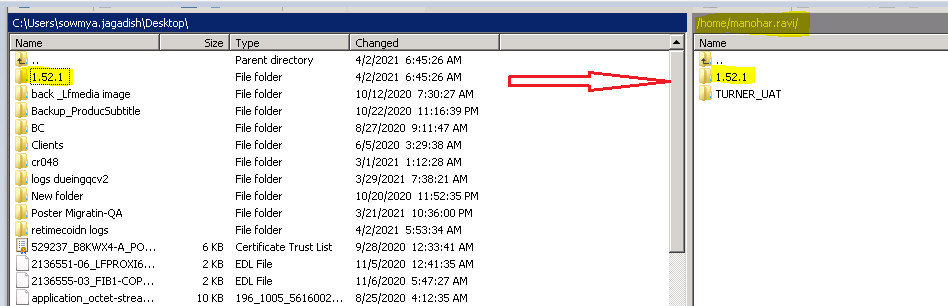
Hostname :10.100.30.222



* All the builds should be copied/moved from LADC machine to below path under root in 222 VM.



* Copy /Drag and drop the builds under /home/manohar.ravi/



* Move the build to the path /DeploymentPackage/Package using below command in Putty.

>sudo mv /home/manohar.ravi/Final\_R1.52.7 /DeploymentPackage/Package

OR

>sudo cp -r /home/manohar.ravi/foldername\_of\_build /DeploymentPackage/Package

* Refresh and check if the folder is copied

**Note :** 222 machine should not be loaded with more folders due to space constraint **.**After each build deployment is completed , its folders can be removed & next build to be deployed can be moved using below command :

To remove : sudo rm -rf /DeploymentPackage/Package/fodername

This will delete the build folder under /DeploymentPackage/Package

Steps for Prep & deploy:

1.Do Prep of Product build & deploy

2.Do Prep of PFTPH & deploy

3.Do upgrade Tool prep & deploy

**Steps for Prep activity (Product build)**

1.Prep should be started after moving the builds to /DeploymentPackage/Package folder in 222 server.

2.Login to Jenkins in local chrome

3.Click on DeploymentAutomation\_Prep>build with Parameters

4.EnvironmentName : Turner\_UAT 🡪give this name while deploying Product builds

5.Package name : Proper Folder path in Package

6.Flush (not mandatory-if files are already copied and trying to copy the files then it will replace older files)

7.PackagePassword: not required to give

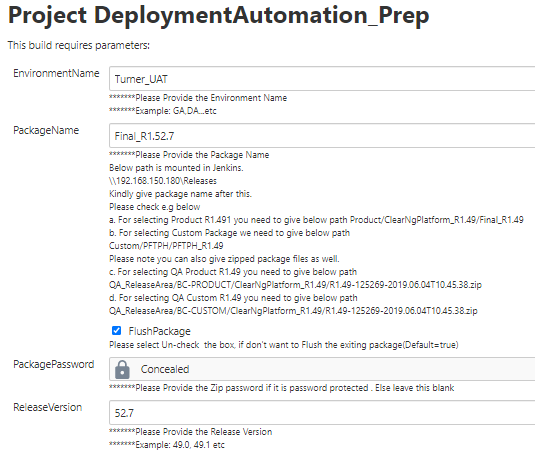
8.Release version (Provide the version e.g:52.1 , 52.5 , 52.6 depending on the build to be deployed etc)

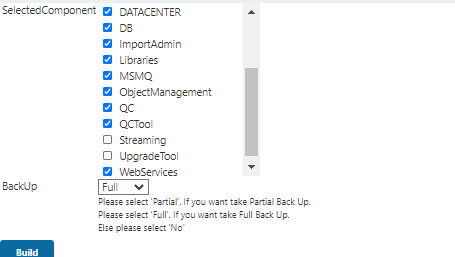
9.Selected components :Select the below components ,

BC, Webservices, DB, ClearConfigurations,Datacenter , Libraries etc (check the build package to know the released components)

10.Select backup if required

11.Check the console logs for success /failure

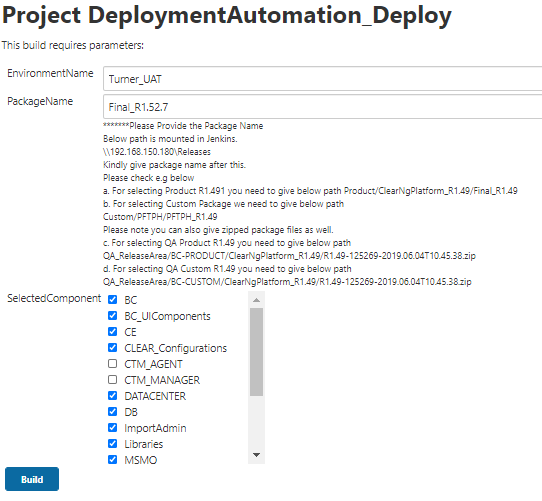




**Deploy the Product build :**

1.Goto Project DeploymentAutomation\_Deploy >Build with parameter >provide same data as given in Prep

2.Click on Build

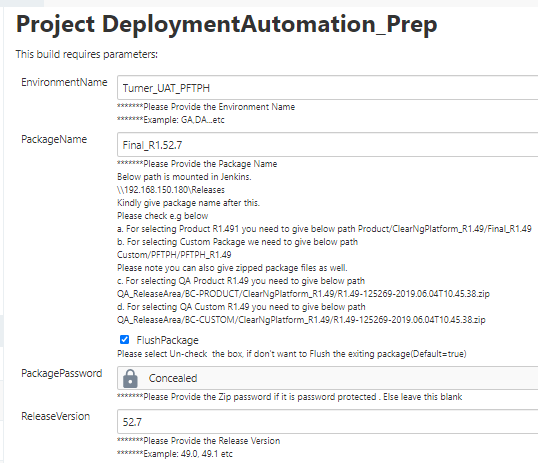


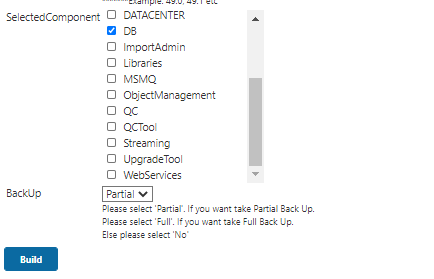
**Note : Take upgrade Tool Prep separately and deploy.**

**There will not be version change in the Webservices>web.config (This change is for 52.5 onwards)**

**PFTPH Prep:**

* Click on DeploymentAutomation\_Prep>Build with Parameters
* .EnvironmentName : Turner\_UAT\_PFTPH 🡪give this name while deploying PFTPH
* Select only DB





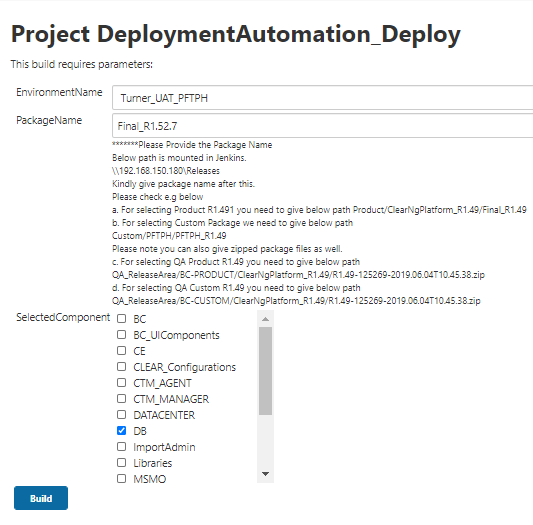
**PFTPH deployment:**

• Click on DeploymentAutomation\_Deploy >Build with Parameters

• EnvironmentName : Turner\_UAT\_PFTPH

• Select only DB

Click on Build

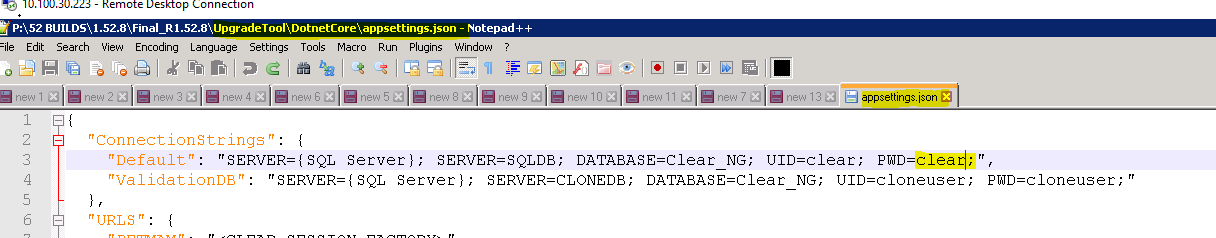


**Prep- Upgrade Tool :**

* Before moving the upgrade tool to Package folder change the password in appsettings.json

Give password : E~LB5X#sS=Igv@P & save.

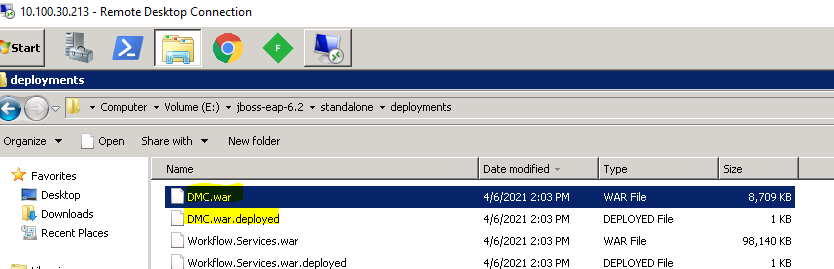
* Select only Upgrade Tool while running Prep.



* For Prep , Follow similar steps as above but select only Upgrade tool
* EnvironmentName : Turner\_UAT

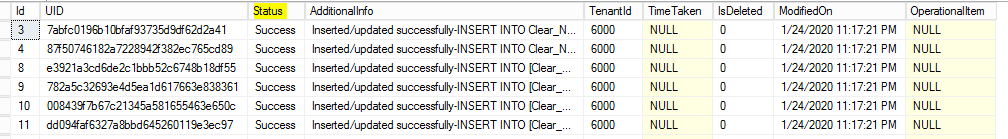
**Deploy-Upgrade Tool:**

* Follow similar steps as above but select only Upgrade tool
* EnvironmentName : Turner\_UAT
* Make sure Jboss is up and DMC.war is present in below path in 213



* After Upgrade tool is deployed check the below table and status , if status is failed check with respective team.

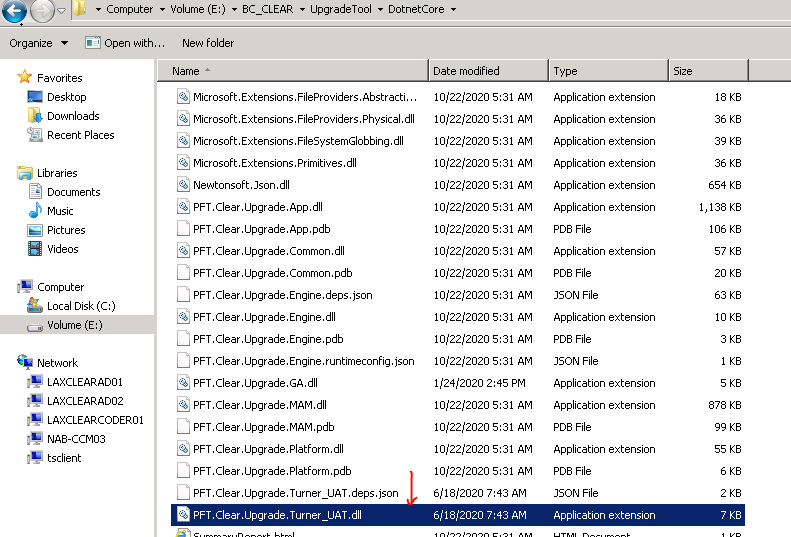
SELECT \* FROM [Clear\_NG].[clear].[UpgradeInstallerTracker]



FYI,

* Upgrade Tool in 213 machine has Turner Environment dll in the path :

E:\BC\_CLEAR\UpgradeTool\DotnetCore



* Dot Netcore version : 4.5.2 (Installed in 213 , required for upgrade Tool deployment)
* Appfabric is installed in [\\10.100.30.223\E:\AppFabric](file:///\\10.100.30.223\E:\AppFabric)

FYI,

**When any new HBM is released or updated existing HBM then follow below steps :**  
  
**1) ClearsessionFactory  
2) LoadHBM  
3) Refresh entities**  
  
  
  
1.ClearsessionFactory:  
either undeploy and deploythe ClearDC.war file or   
  
Keep DMC war file in deployment folder while executing below in fiddler :  
http://10.100.30.213:8080/DMC/DMConfigurator/ClearSessionFactory (DC JBOSS)  
  
Request body:  
6000  
  
  
Hit below in LADC chrome to check if loadhbm is up:  
2.http://10.100.30.222:8082/metadata-store/loadHbm

3.http://10.100.30.222:8082/metadata-store/refreshEntities/active

FYI,

http://pftmam:8080/DMC/DMConfigurator/ClearSessionFactory

http://domain-object-management:8082/metadata-store/loadHbm

http://domain-object-management:8082/metadata-store/refreshEntities/active

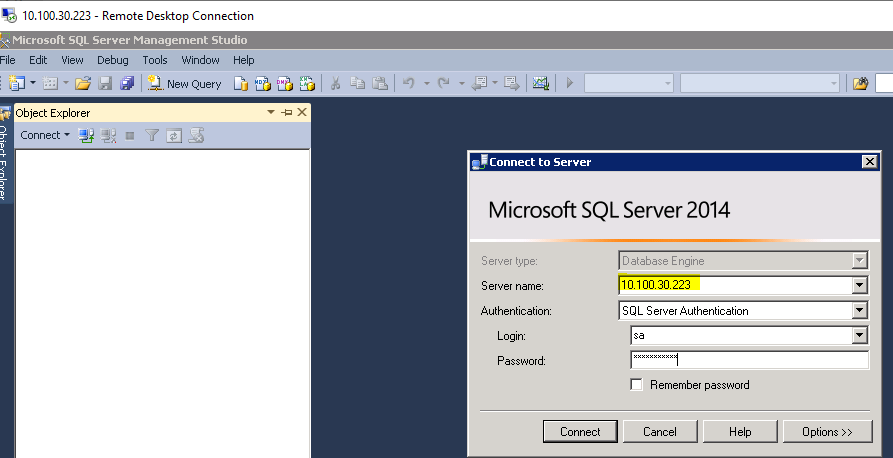
FYI,

**Clone DB**

* Clone DB server IP 10.100.30.223
* Clone DB will contain same schema as that of QA DB (Clear\_NG & TURNERTRACKERQA) required to execute the scripts that are released in the build during the Prep activity.

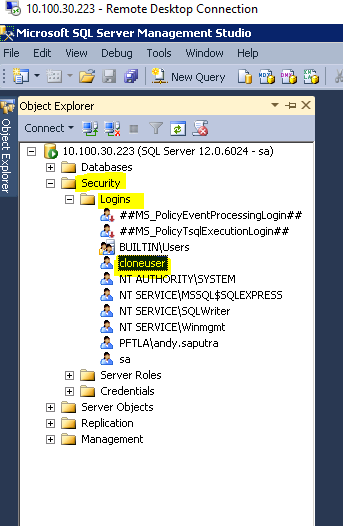
User name : sa

Pwd : S@L\_Turn3r!



SQL user: cloneuser ,

pwd : cloneuser

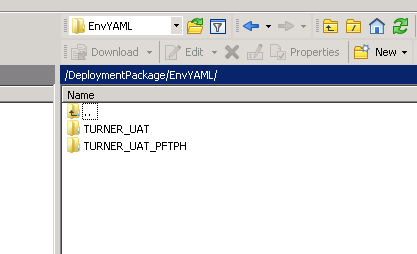


**VM details:**

* Environment variables are present in below path under root:

root/DeploymentPackage/EnvYAML

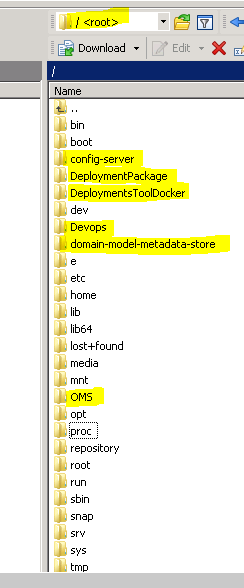
* Environment .yaml files are present in below path for both Product(TURNER\_UAT.yaml) & PFTPH builds (TURNER\_UAT\_PFTPH.yaml) , these yamls will contain all the Environment IPs and paths of components.







Below are some of the folders to be known under root:

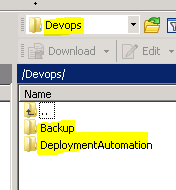


Note : In all the servers (213, 223, 33 ) & in VM machine , ‘Backup’ and ‘DeploymentAutomation’ folders are created and should not be deleted. While doing prep activity , component’s backup will be taken under below Backup path in the respective severs. All the required components from product & PFPH builds will be copied to the respective servers in the below DeploymentAutomation folder.

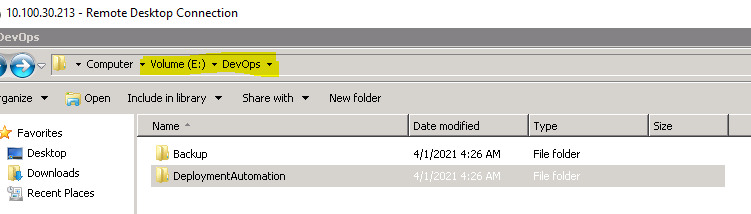
E:\DevOps\Backup

E:\DevOps\ DeploymentAutomation

Below is the screenshot of 222 :



Below is the screenshot of 213 , similar folders will be present in 223 and in 33 Turner QA DB server.



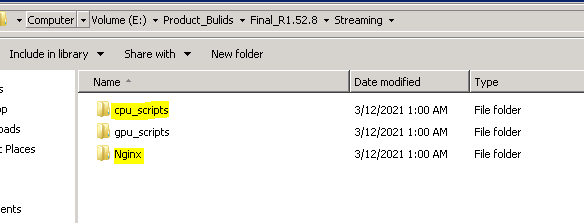
**QCTool :** E:\Clear\bc\_clear\BC\Product\Modules\QCTool

* Donot add web.config file in the QCTool folder
* QC tool will be done by deployment Tool

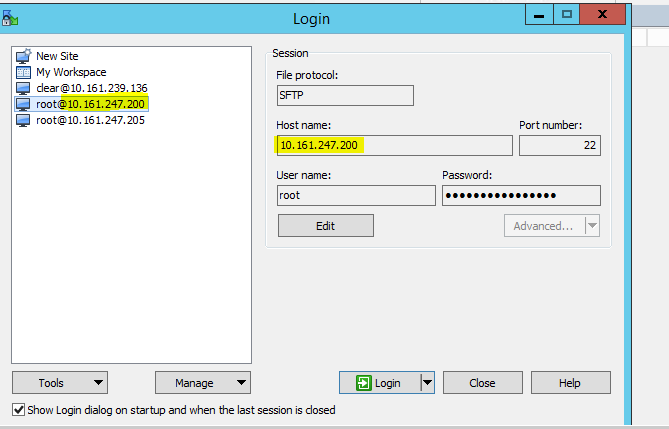
**Tools Deployment has to be done manually.**

* If any Webservice is given in Tools , stop that Webservice from IIS , deploy the entire contents in the folder and then start the Webservice
* If Tools is having PFT.Clear.MAM.Core.QC , deploy all the files except the web.config .

**Streaming Deployment :**



* Check above highlighted while deploying and check java version in streaming location.
* Connect to 189/184 server using Turner VPN 🡪 open WinSCP

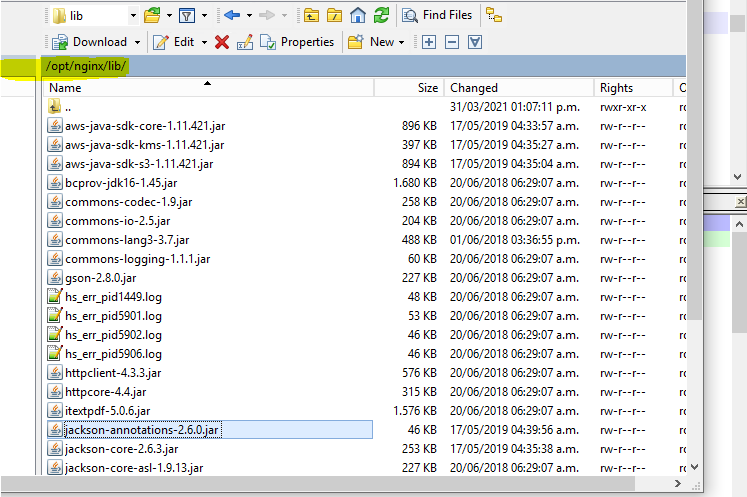


QA Streaming server IP : 10.161.247.200 (Linux)  
uid – root  
pwd - Cl3ar2o17!

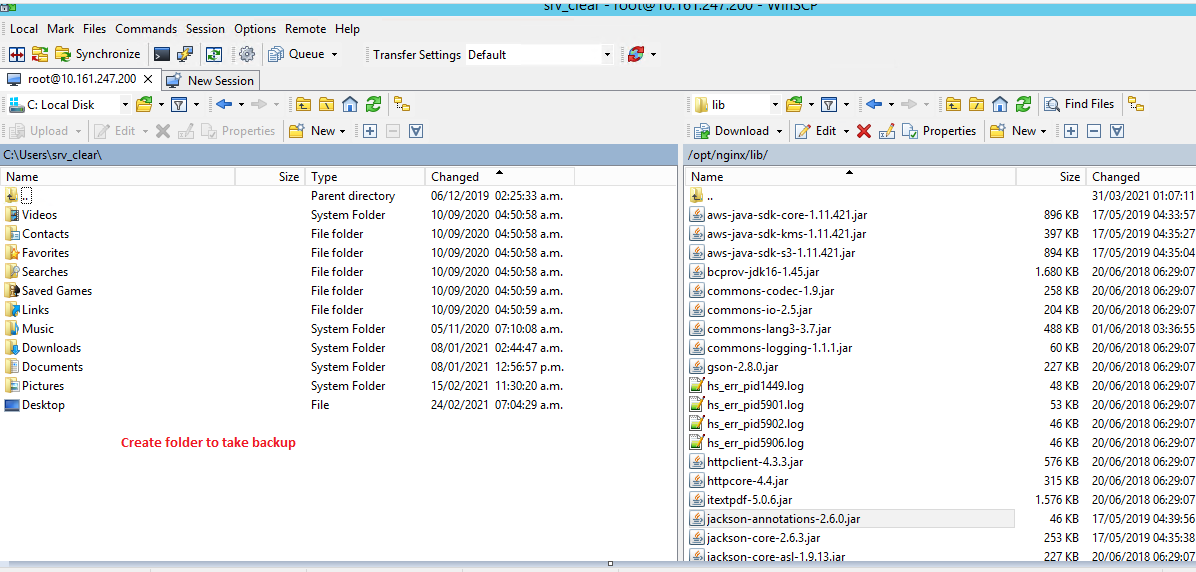
* Take backup of below jar files which are released in Product build from below path :

/root /opt/nginx/lib

* Backup location : C:\Clear\Streaming\_Backup\_before\_52.1

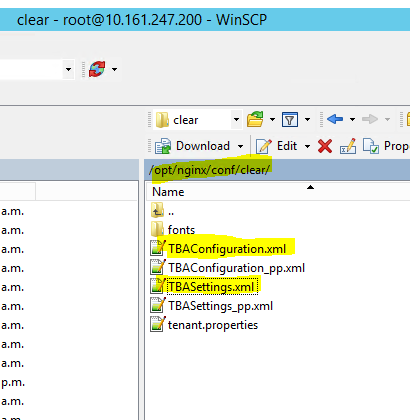


* Create folder in specified location to take backup. Drag the jars from right to left in the backup folder.



* Copy the jars released in Product builds and drop it in the /root /opt/nginx/lib
* To check logs : /root /opt/nginx/logs
* If any configurations is released in streaming , do the changes accordingly

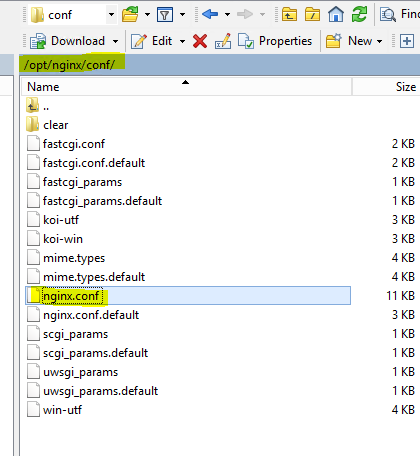
/opt/nginx/conf/clear/ TBAConfiguration.xml & TBASettings.xml



Note : TBAConfiguration\_pp.xml & TBASettings\_pp.xml are the configurations of PreProd

To enable the streaming in PreProd , rename these file names as TBAConfiguration.xml & TBASettings.xml but before doing these changes rename the other files as TBASettings\_QA .xml & TBAConfiguration\_QA .xml

* Nginx.conf is present in below path :



* To restart nginx use below commands in Putty:

sudo service nginx stop

sudo service nginx start

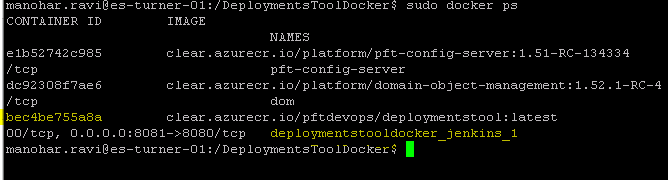
**Refer link for Env Restart:**

<https://confluence.primefocus.com/display/PFTDEVOPS/Environment+Restart>

**DOCKER DETAILS**

**To check status of docker:**

>sudo docker ps





Status is Up 17 seconds from above

**To change password of docker:**

>sudo docker ps

>sudo docker exec -it bec4be755a8a bash 🡪Take id from above (first screenshot)

> ansible-vault edit /etc/ansible/host\_vars/all

>Click i & Edit the password

>Press Esc + shift + colon

> :wq (to save)

**To make docker Down & Up:**

>sudo docker ps (Check status of docker)

>cd /DeploymentsToolDocker

> sudo docker-compose down

>sudo docker-compose up –d

> sudo docker-compose logs –f

>sudo docker ps (Check status of docker again)

**To pull docker :**

>cd /DeploymentsToolDocker

> sudo docker-compose pull

> sudo docker-compose down

>sudo docker-compose up –d

> sudo docker-compose logs –f

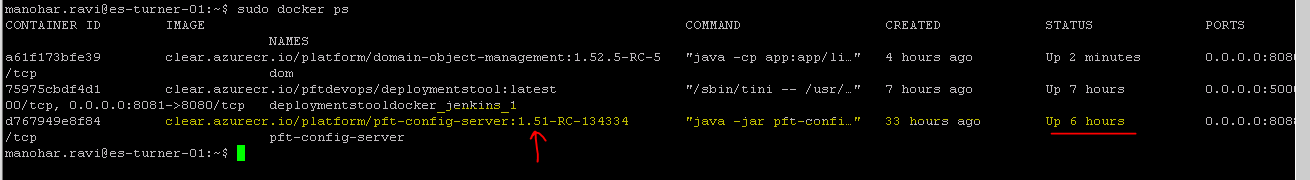
**OM: (object management)**

To check OM status execute below command in putty : **sudo docker ps**



**To make OM Down & then up :**  
  
1.go to 222 server and execute below in Putty :   
>ls  
>cd /OMS   
>sudo docker-compose down  
>sudo docker-compose up -d  
>sudo docker-compose logs -f   
  
 **config-server**  
To check status execute below command in putty :

**>sudo docker ps**



>cd /config-server  
>sudo docker-compose down  
>sudo docker-compose up -d  
>sudo docker-compose logs –f

**Note** :In Jenkins if selected components are not listing

Login as username:devops pwd :devops

* Goto Manage Jenkins -🡪 Inprocess script – Approval 🡪 Approve for all
* Login with Turner\_UAT credentials & check

To check space in 222 server:

1.Goto putty and execute below:

>df –h



* Execute below commands & check the size , (Peform only when there is space issue)

sudo docker system prune

sudo docker image prune -a

sudo docker system prune -a

sudo docker image prune

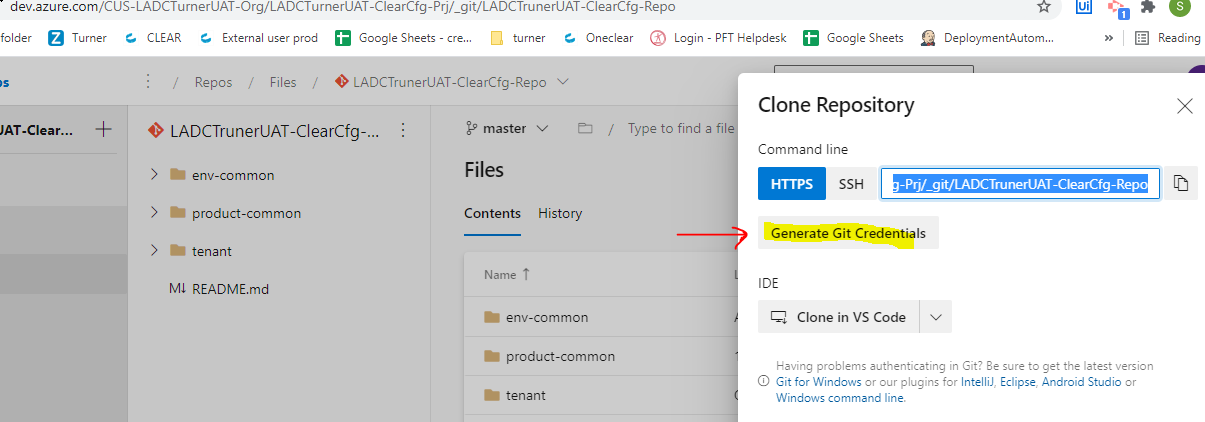
sudo docker volume prune

**Clear Configurations**

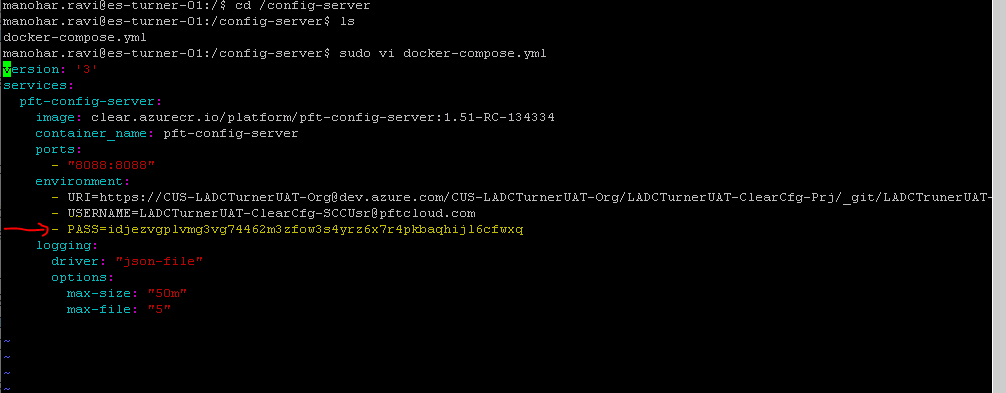
If there is any issues related to Clear configurations password follow below:

**To update password in Clear Configurations:**

* Login to GIT repo
* Click on clone repository
* Click ‘generate Git Credentials’ and copy the newly generated credential



**Paste the above generated Git Credential in below (only password):**



**Follow below steps to do changes :**

**>cd /config-server**

**>ls**

**>sudo vi docker-compose.yml**

**>Click i**

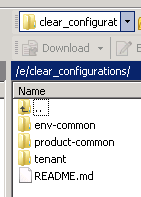
**>edit the password**

**> Press Esc +Shift + colon**

**>wq**

**FYI,**

**/e/clear\_configurations**



BC Configurations & Comparsion :

* In the Product build, if BC configurations are released follow the steps mentioned.
* Compare the BC config from deployed & backup

Webservice Configurations & Comparsion :

* In the Product build, if Webservice configurations are released follow the steps mentioned.
* Compare the Webservices from deployed & Webservices released in Product build(version number in the WS will be updated from the deployment tool)

MC Deployment : (Manual-134 server)

* Take the backup of wars & configurations from Manager & Agent
* Move the MC wars released in Product builds to MC
* Stop the MC if more wars are released in Product builds(DCESB , MCESB, CTM etc )
* Delete the ‘DEPLOYED FILE ’ filetype , it changes to ‘UNDEPLOYED ’ ,paste the war file released in product build , now delete the ‘UNDEPLOYED ’ file .
* After deleting , it will start deploying and it should be in ‘DEPLOYED’ state (deployed for the .war file pasted in step4)
* If any failure goto MC manager 🡪server logs
* Perform same activity for MC Agent.
* If any configurations are released ,add them in the mentioned config files (ex: if a tag is mentioned to be added in the released configurations, first check if its already present , if not present then add that particular tag)

**Note** : When any new entry is added in Clear.Agents Table , undeploy & deploy the CTM.war in manager 134

MC Agent (10.185.142.206)

* Connect to Turner VPN
* RDP using below (credentials same as MC) from your local system.



RDP is present in path **10.100.30.213\E:\RDP to 206\_DONTDELETE**

* Take the MC Agent from Product builds & deploy in 206 server in below path
* Before deploying take backup of deployments & configurations folder.

C:\JBOSS\jboss-eap-6.2\standalone\deployments

C:\JBOSS\jboss-eap-6.2\standalone\configuration

**Config store:**

**When anything is added /changed in config store , call the below after updating in LADC chrome:**

URL: <http://10.100.30.222:8088/config/update>

**Guvnor templates :**

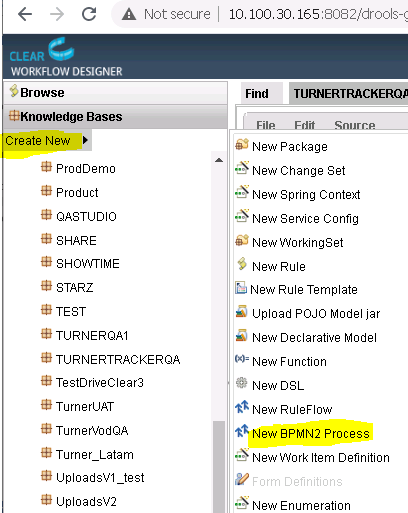
<http://10.100.30.165:8082/drools-guvnor/org.drools.guvnor.Guvnor/Guvnor.jsp?#ModuleEditorPlace:2280746b-7f29-463e-8764-fb3986b1fd0a>

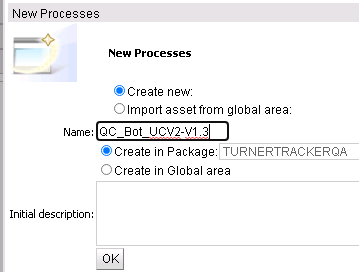
* Click on TURNERTRACKERQA



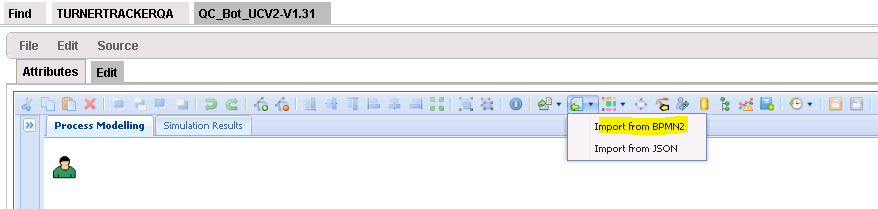
* To import new BPMN2 follow below steps:

i.Click on create New 🡪new BPMNProcess🡪 Provide name of bmpn2 and click on ok and wait until it loads.

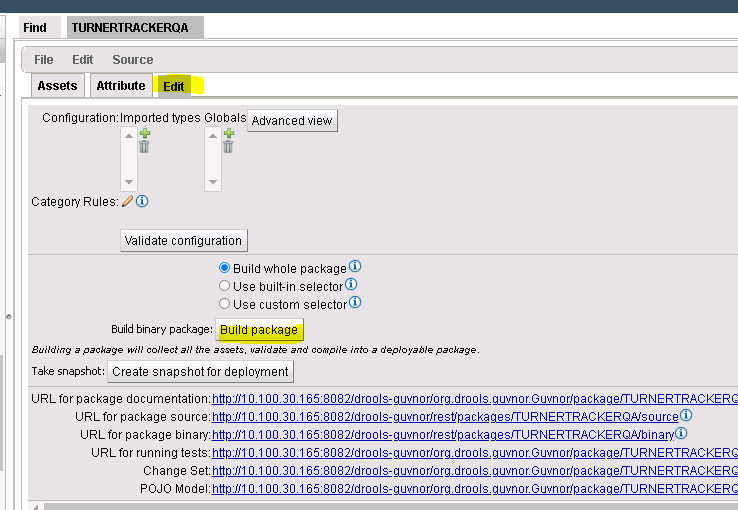




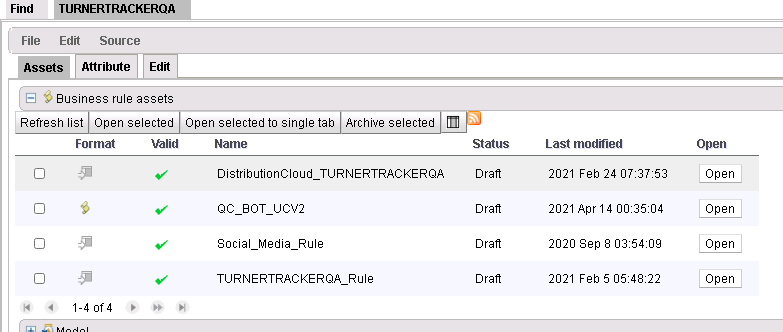
* Select Import from BPNM2 and browse the bpmn2 from the given .bpmn2 and click on ok



* Do build package and ClearKB



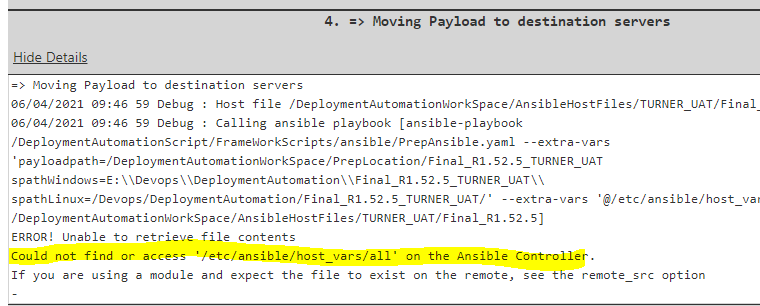
* Click on Business Rule asset & check for the imported one.

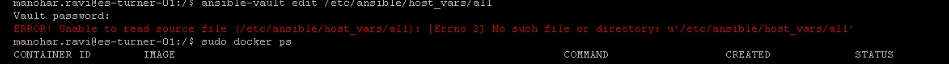


**Note** : Follow the same steps for rule sheet

Create New 🡪New Rule🡪Save the changes

**Common Issues:**





**Solution:**

>sudo docker ps

> sudo docker exec -it (give container id) bash

> ansible-vault **create** /etc/ansible/host\_vars/all

>click i to edit

> - - - (give 3 hyphen and enter below details to create)

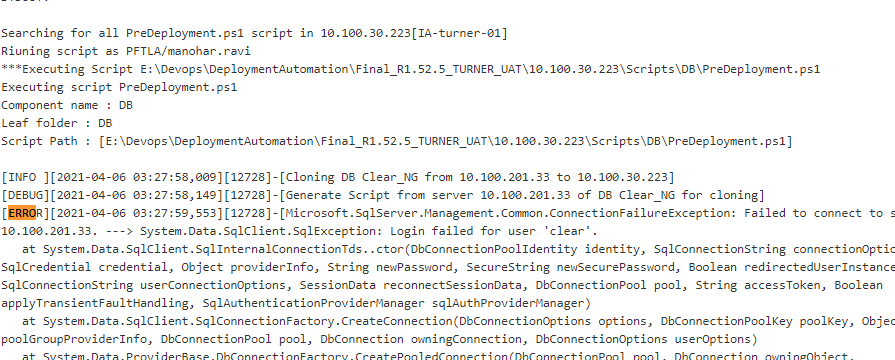
> user: ‘manohar.ravi’

>password:’type password here’

Press Esc +Shift +colon

Enter wq

>ansible-vault **edit** /etc/ansible/host\_vars/all



**To solve this:**

>sudo docker ps

>sudo docker exec -it (give container id) bash

>ls

> cd DeploymentAutomationScript

>ls

>cd **CustomComponentsScripts**

>ls

>cd DB

>ls

>cd SQLutils

>ls

>sudo vi SQLUtils.exe.config

>press i to insert/editchange the pwd (give 33 DB pwd)

after changing click on esc +Shift+:

wq (to save changes)

Similarly follow the steps for **ProductComponentsScripts** and change the password