SAP Deployment Procedure

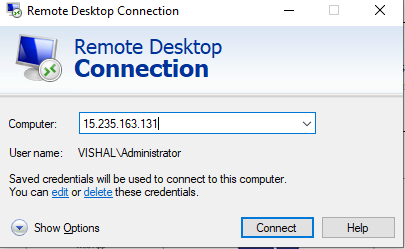
**SAP Frontend**

Step 1 : Open the Remote desktop connection.

IP : 15.235.163.131

Username : .\ Administrator (or) .\mangai

Password : [T3lln00n1$bb5@G4.Li](mailto:T3lln00n1$bb5@G4.Li)

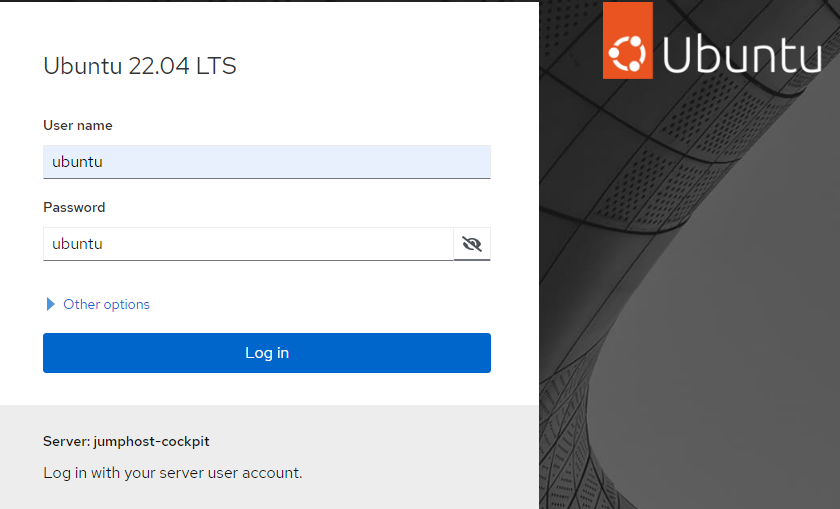


Step 2: Open the chrome and Go to this link address - <https://54.39.122.20:9090/>

Step 3 : Login the Cockpit terminal with

Username: ubuntu

Password : ubuntu



Step 4 : Type the code : ssh 172.168.1.201C:\Users\Admin\Pictures\Screenshots\Screenshot (21).png

Step 5 : To change the directory : cd /var/www

C:\Users\Admin\Pictures\Screenshots\Screenshot (22).png

Step 6 : To create the new folder : mkdir production

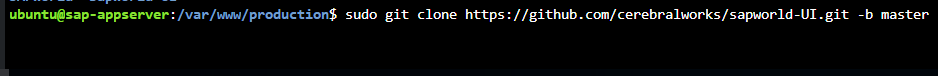
C:\Users\Admin\Pictures\Screenshots\Screenshot (23).png

Step 7 : To change the directory to production : cd production

C:\Users\Admin\Pictures\Screenshots\Screenshot (26).png

Step 8 : To clone the Sap frontend code from Git :

sudo git clone https://github.com/cerebralworks/sapworld-UI.git -b master



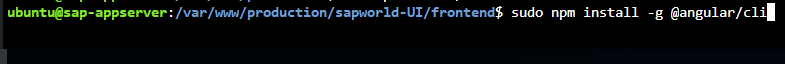
Step 7 : To change the directory to frontend path: cd sapworld-UI/frontend

C:\Users\Admin\Pictures\Screenshots\Screenshot (28).png  
Step 8 : To install Nodejs : sudo apt install –g nodejs (or) To install the node package by using NVM

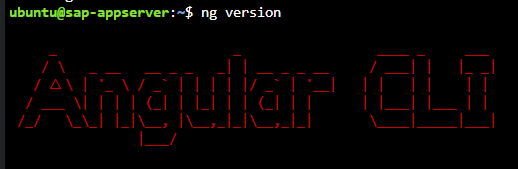
1. curl -o- https://raw.githubusercontent.com/nvm-sh/nvm/v0.39.3/install.sh | bash
2. source ~/.bashrc
3. command -v nvm
4. nvm install 18.17.1
5. nvm use 18.17.1
6. check the node is installed or not : node –v

C:\Users\Admin\Pictures\Screenshots\Screenshot (33).png

Step 9 : To install angular : sudo npm install –g @angular/cli



Step 10 : To check the angular latest version (16) is installed or not : ng version



Step 11 : To install all dependency used in the project: sudo npm install –ignore-script

C:\Users\Admin\Pictures\Screenshots\Screenshot (82).png

Step 12 : To check all the packages install without any error : sudo npm start

C:\Users\Admin\Pictures\Screenshots\Screenshot (83).png

Step 13 : To change the environment variable in src/environments/environment.prod.ts file and commit in repository

apiUrl:'https://apiurl:5003'

serverUrl:'https:// apiurl:5003'

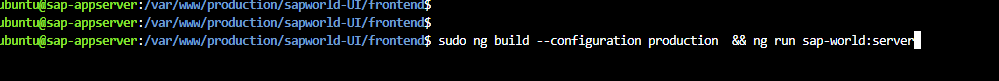
Step 14 : After commiting, pull the code from the repository : sudo git pull origin master

C:\Users\Admin\Pictures\Screenshots\Screenshot (81).png

Step 15: To install angular universal for server side rendering (Not required , It required only for first time setup angular universal)

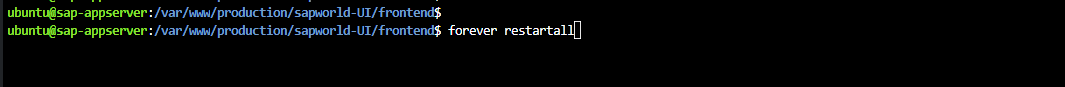
* sudo ng add @nguniversal/express-engine
* sudo npm install domino
* sudo npm install localstorage-polyfill

Step 16 : To take build in the server : sudo ng build --configuration production && ng run sap-world:server



Step 17 : To install forever package to start or stop server : sudo npm i –g forever

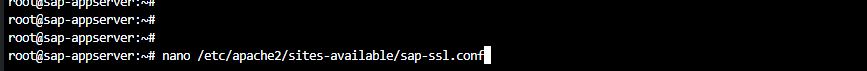
Step 18 : After taking build , To move the build files to domain path : forever restartall



Step 18: To install packages in root user path

* sudo a2enmod proxy
* sudo a2enmod proxy\_http
* sudo a2enmod proxy\_balancer
* sudo a2enmod lbmethod\_byrequests

Step 20 : To open to config file path : nano /etc/apache2/sites-available/sap-ssl.conf



Step 21 : To add the below code and save it

ProxyPreserveHost On

<Proxy \*>

Order deny,allow

Allow from all

</Proxy>

ProxyPass / http://localhost:4000/ connectiontimeout=1 retry=5 Keepalive=On

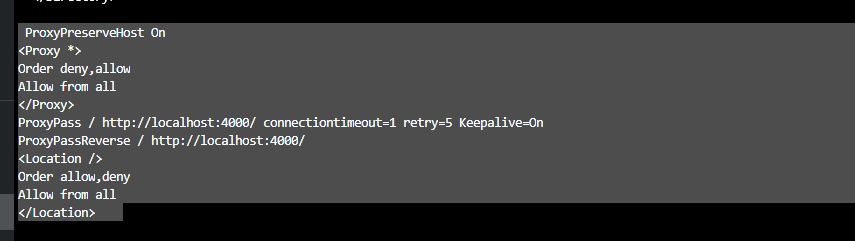
ProxyPassReverse / http://localhost:4000/

<Location />

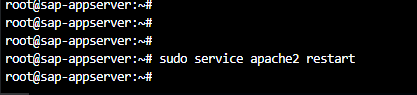
Order allow,deny

Allow from all

</Location>



Step 20 : To restart the apache server: sudo service apache2 restart



Step 21 : To check the site is working or not : https://sapworld.io/

**SAP Middleware**

Step 1: Type ssh 172.168.1.203

C:\Users\Admin\Pictures\Screenshots\Screenshot (13).png

Step 2 : To change the directory to middleware path : cd /var/www/production/sapworld-UI/middlewareC:\Users\Admin\Pictures\Screenshots\Screenshot (75).png

Step 3 : To change the App url in the middleware environmental file (.env) and commit the code

* PRODUCTION\_SERVICE\_API\_URL = <http://apiurl:1339>
* PRODUCTION\_PORT = 5003

Step 4 : To install forever package to start or stop server : sudo npm i -g forever (not required if install already)

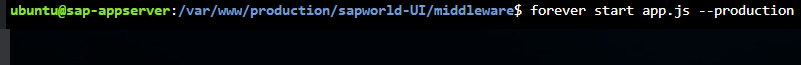
C:\Users\Admin\Pictures\Screenshots\Screenshot (93).png

Step 5 : To install all dependencies installed in middleware : sudo npm install --forceC:\Users\Admin\Pictures\Screenshots\Screenshot (94).png

Step 6: After commiting, pull the code from the repository : sudo git pull origin master

C:\Users\Admin\Pictures\Screenshots\Screenshot (95).png

Step 7 : After pull the code , to start the server : forever start app.js –production



**SAP API**

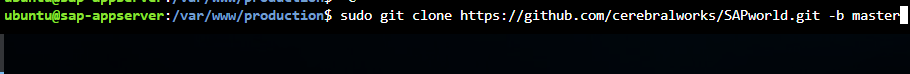
Step 1: Type ssh 172.168.1.203

C:\Users\Admin\Pictures\Screenshots\Screenshot (13).png

Step 2: To change the directory to production path : cd /var/www/production

C:\Users\Admin\Pictures\Screenshots\Screenshot (38).png

Step 3 : To clone the API files from the repository: sudo git clone https://github.com/cerebralworks/SAPworld.git -b master



Steps 4 : After cloning API file , move to API folder : cd SAPworld/API

C:\Users\Admin\Pictures\Screenshots\Screenshot (40).png

Step 5 : To install the sails : sudo npm install –g sails

C:\Users\Admin\Pictures\Screenshots\Screenshot (40).png

Step 6 : To install all dependencies installed in API : sudo npm install –force

C:\Users\Admin\Pictures\Screenshots\Screenshot (41).png

Step 7: After installing dependencies , to run the project to check whether the error occurs or not

C:\Users\Admin\Pictures\Screenshots\Screenshot (45).png

Step 8 : To change configuration details in the environmental file (.env) and commit the code

#To change config details

* service\_port=1339
* appurl=https://sapworld.io ( Application url)
* webapp=http://api.sapworld.io ( Api url)

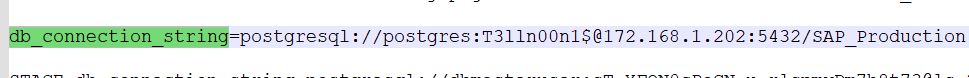
#To change the database configuration

Hostname : 172.168.1.202

Username : postgres

Database name : SAP\_Production

Password : T311n00n1$



Step 9 : After commiting , pull the code from the repository : sudo git pull origin master

C:\Users\Admin\Pictures\Screenshots\Screenshot (43).png

Step 10: After pull the code , then start the server : forever start app.js

C:\Users\Admin\Pictures\Screenshots\Screenshot (44).png

**SAP Database Migration (Not required)**

Step 1 : To comment or remove the NODE\_ENV variable in the environmental file(.env) . (Note: Production environment does not support migration)

C:\Users\Admin\Pictures\Screenshots\Screenshot (98).png

Step 2: To change the migration safe to migration drop in the config/models.js



Step 3 : To commit the changes in repository and pull the code :sudo git pull origin master

C:\Users\Admin\Pictures\Screenshots\Screenshot (43).png

Step 4: Lift the sails for database migration : sails lift

C:\Users\Admin\Pictures\Screenshots\Screenshot (2).png

Step 5 : After sails lift , undo the step 1 and step 2 and commit the changes

Step 6 : To pull the code : sudo git pull origin masterC:\Users\Admin\Pictures\Screenshots\Screenshot (43).png

Step 7 : To restart the server : forever restartall

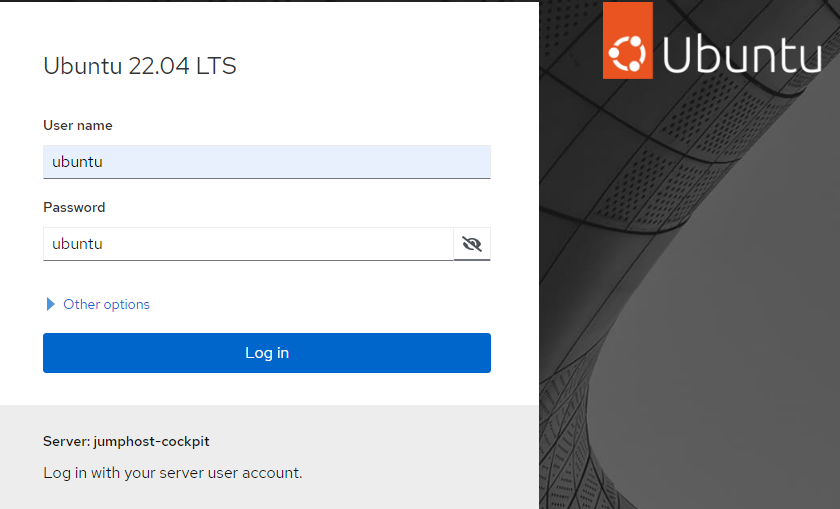
C:\Users\Admin\Pictures\Screenshots\Screenshot (3).png

**SAP Admin**

Step 1: Login the Cockpit terminal with

Username: ubuntu

Password : ubuntu



Step 2: Type ssh 172.168.1.201

C:\Users\Admin\Pictures\Screenshots\Screenshot (21).png

Step 3 : To change the directory : cd /var/www

C:\Users\Admin\Pictures\Screenshots\Screenshot (14).png

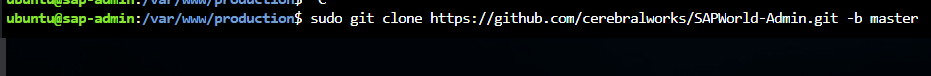
Step 4 : To create the new folder : sudo mkdir production

C:\Users\Admin\Pictures\Screenshots\Screenshot (15).png

Step 5 : To change the directory to production : cd production

C:\Users\Admin\Pictures\Screenshots\Screenshot (16).png

Step 6 : To clone the Admin code from the repository : sudo git clone <https://github.com/cerebralworks/SAPWorld-Admin.git> -b master



Step 7 : To change the directory : cd SAPWorld-Admin

C:\Users\Admin\Pictures\Screenshots\Screenshot (18).png

Step 8 : To install the node js : sudo apt install –g nodejs

**C:\Users\Admin\Pictures\Screenshots\Screenshot (17).png**

Step 9 : To install angular : sudo npm install –g @angular/cli

C:\Users\Admin\Pictures\Screenshots\Screenshot (18).png

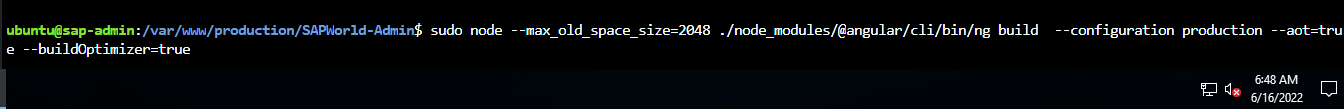
Step 10 : To install all the packages in our project : sudo npm install –force

C:\Users\Admin\Pictures\Screenshots\Screenshot (19).png

Step 11: To check all the packages install without any error : sudo npm start

C:\Users\Admin\Pictures\Screenshots\Screenshot (21).png

Step 12 : To take build in the server : sudo node --max\_old\_space\_size=2048 ./node\_modules/@angular/cli/bin/ng build --configuration production --aot=true --buildOptimizer=true



Step 13 : After taking build , To move the build files to domain path : sudo cp -R dist/\* /var/www/html

C:\Users\Admin\Pictures\Screenshots\Screenshot (23).png

Step 14: To check the site is working or not : https://admin.sapworld.io/

**SAP Admin middleware**

Step 1 : To change API url in middleware/.env :

* PRODUCTION\_SERVICE\_API\_URL = <http://api.sapworld.io:1339>
* PRODUCTION\_PORT = 5002

Step 2 : To change the IP url in middleware/app.js C:\Users\Admin\Pictures\Screenshots\Screenshot (109).png

Step 3 : To commit the code in repository

Step 4 : To go the directory : cd /var/www/production/SAPWorld-Admin/middleware

C:\Users\Admin\Pictures\Screenshots\Screenshot (24).png

Step 5 : To pull the code from repository : sudo git pull origin master

C:\Users\Admin\Pictures\Screenshots\Screenshot (25).png

Step 6 : To start the server : forever start app.js –production

