Assignment No. 9 DEPLOY A PROJECT FROM GITHUB TO EC2

Visit aws.amazon.com and Sign in.Create an EC2 server and copy its IPv4 address. EC2 > ... > i-08b0636b4c66a903b Instance summary for i-08b0636b4c66a903b Info Updated less than a minute ago Connect Public IPv4 address copi Instance ID i-08b0636b4c66a903b Private IPv4 addresses IPv6 address **1**72.31.83.109 Instance state Public IPv4 DNS Running **□** ec2-18-234-161-38.compute-

2. Login to Bitwise SSH client using the copied IPv4 address as host address. **Default profile** Login Options Terminal RDP SFTP Services C2S S2C SSH Notes About Save profile as Host 18.234.161.38 Enable obfuscation Initial method none GSS/Kerberos key exchange gssapi-keyex authentication 1 20:49:40.970 Attempting none authentication. 1)20:49:41.240 Remaining authentication methods: 'publickey'.
1)20:49:41.240 Attempting publickey authentication. Testing client key 'Global 1' for acceptance. 1 20:49:45.863 The client key 'Global 1' has been accepted. 1 20:49:45.863 Attempting publickey authentication. Signing with client key 'Global 1' using rsa-sha2-512. 120:49:46.248 Authentication completed. [] 20:49-48-362 Host key has been saved to the global database. Algorithm: ECDSA/nistp256, size: 256 bits, SHA-256 fingerprint: 37124/3E1-EHVD25migalAry(CSLdbe3IbW2AltnAao0. 3712/49/E1-EHWZSmi galAtVgCSLdoe30WZAtnAao0.

120:49:48.368 Host key has been saved to the global database. Algorithm: Ed25519, size: 255 bits, SHA-256 fingerprint: Vysy3OTrc/YLY6oHMK/GLQG67QnTfoipxexx/IVmLSdM.

120:49:48.368 Host key synchronization completed with 2 keys saved to global settings. Number of keys received: 3.

120:59:41.414 Terminal channel opened. Log out

Create a personal access token in the Github and save it for future reference

Personal access tokens (classic) Generate new token → Revoke all

Tokens you have generated that can be used to access the GitHub API.

Make sure to copy your personal access token now. You won't be able to see it again!

Copied!

✓ ghp_ehIRDwytFb(______r)75NiKFsjhquXw0zCxoR ✓ Delete

token1 — admin:enterprise, admin:ppg_key, Last used within the last week admin:org, admin:org_hook, admin:public_key, admin:repo_hook,

Create a repository containing the project files in the Github and copy and save its HTTPS address for future reference P master → P 1 branch 🕥 0 tags Go to file Add file ▼ <>> Code ▼ Local hiteshperiwal Update index.js ∑ Clone HTTPS SSH GitHub CLI New Text Document.... dor https://github.com/hiteshperiwal/hello1.git index.js package.json Open with GitHub Desktop

Open a "New terminal console" in the Bitwise SSH client and type the following 5. commands in it to install nodejs:**pwd** (to check if it is in server) sudo apt-get update sudo apt-get upgrade sudo apt install nginx **nginx** –**v** (to check nginx version) curl -s1 https://deb.nodesource.com/setup_18.x |sudo -E bash sudo apt install nodeis **node** –**v** (to check node is version) ubuntu@ip-172-31-83-109:~\$ pwd /home/ubuntu ubuntu@ip-172-31-83-109:~\$ sudo apt-get update ubuntu@ip-172-31-83-109:~\$ sudo apt-get upgrade ubuntu@ip-172-31-83-109:~\$ sudo apt install nginx ubuntu@ip-172-31-83-109:~\$ nginx -v nginx version: nginx/1.18.0 (Ubuntu) ubuntu@ip-172-31-83-109:~\$ curl -s1 https://deb.nodesource.com/setup_18.x |sudo -E bash ubuntu@ip-172-31-83-109:~\$ sudo apt install nodejs ubuntu@ip-172-31-83-109:~\$ node -v v18.15.0

6. To upload the project on EC2 server type the following commands:-

Started server

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git clone https address of the github hub repository where project is uploaded

(For username type your github username and for password enter the personal access token)

dir (to check the directory of the project)

cd hello1/ (to enter into repository)

npm install (node package manager installation to run node commands)

node index.js (as project is uploaded start server)

ubuntu@ip-172-31-82-194:~$ git clone https://github.com/hiteshperiwal/hello1.git

cloning into 'hello1'...

Username for 'https://github.com': hiteshperiwal

Password for 'https://hiteshperiwal@github.com':

ubuntu@ip-172-31-83-109:~$ dir

hello1

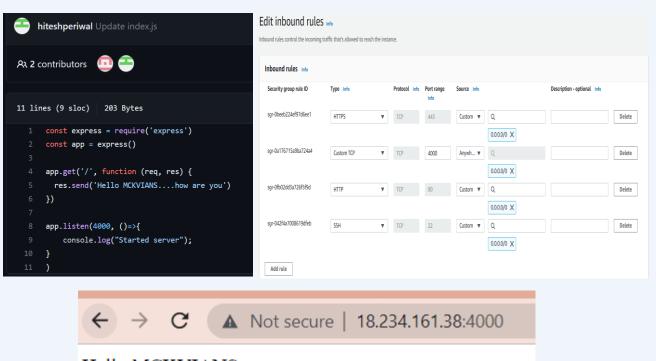
ubuntu@ip-172-31-83-109:~$ cd hello1/
ubuntu@ip-172-31-83-109:~/hello1$ npm install

ubuntu@ip-172-31-83-109:~/hello1$ node index.js
```

7. On pasting the public Pv4 address address of EC2 server ,the project wont load because only through specific ports it is accessible. Go to git hub and check for the ports permitted for the project by opening the index.js file.

Now to address this issue go to instance(in aws) -> security -> security groups -> edit inbound rules -> Add rules -> set type as custom tcp, port range as specified in index.js file, source as anywhere-IPv4 and 0.0.0.0/0 ->save rules.Now type the port number after colon in IPv4 address and the website will be accessible.

Hence the project is successfully deployed from github to EC2.



Hello MCKVIANS

8. If there is some editing done in the project it will not be reflected in the website.For that we need to terminate the server using ctrl+c and then type the follow command:git pull

(enter the github username and its token as password)
node index.is

Now,refresh the browser to see the changes reflected on it.





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