WordPress on EC2 linux and RDS

1. Launch EC2 Instance
   1. Choose EC2 from AWS.
   2. You have to create an instance.
   3. Select Amazon Linux AMI(64-bit).
   4. Choose Free tier for the instance type.
   5. For the security group, I choose SSH for type, Source anywhere.
   6. Go into review sheet to double check everything and launch instance, and download the key pair. (\*\*\*.pem)
2. Create a RDS
   1. Go to EC2 and Create security group from AWS.
   2. Add a all traffic rule in inbound rule, destination choose anywhere.
   3. Go to RDS from AWS.
   4. Choose the Standard Create as a database creation method.
   5. Engine options select MySQL.
   6. I used “Genghua” as my master username.
   7. I type my own master password.
   8. Select Yes in Publicly accessible in Connectivity.
   9. Existing VPC security groups chooses default and the one I just created from security group.
   10. Check everything and then create database.
   11. Open MySQL Workbench.
   12. Add a MySQL connection
   13. Hostname corresponding to RDS endpoint.
   14. Username corresponding to master username.
   15. Port 3306
   16. Password corresponding to master password.
   17. After get into work page create a table call WordePress
   18. Add two columns, word(CHAR(255)) and count(INT)
3. MapReduce
   1. Open terminal and find out where the pem file is
   2. Type ssh -i <\*\*\*.pem> ec2-user@<Public IPv4 DNS>(ssh -i labhw.pem [ec2-user@ec2-35-175-250-179.compute-1.amazonaws.com](mailto:ec2-user@ec2-35-175-250-179.compute-1.amazonaws.com))
   3. Go to  <https://www.gutenberg.org/>and find out ht “The Jungle Book By Rudyard Kipling”.
   4. Get the link of the book.
   5. Back to terminal and type wget <link>
   6. Use mv to change the name of book: mv 75-0.txt hw.txt
   7. Create a python file call map to mapping the data: nano map.py
   8. Create a python file call reduce to reducing the data from map: nano reduce.py
   9. Create a python file call sql to connect the result to MySQL: nano sql.py
   10. Type <cat hw.txt | python map.py | sort | python reduce.py | python sql.py>, it will start to upload the result to database.