

Analysis and Answering Questions:

Every time when the order server crashes and restarts, it'll synchronize its database file with other replicas .

by copying the largest database file to its own database file

Can the clients notice the failures? – No

Do all the order service replicas end up with the same database file? – Yes

Evaluation

$p=0$

average running time for look up and order is 0.045980072021484374

$p=0.2$

average running time for look up and order is 0.05747199058532715

$p=0.4$

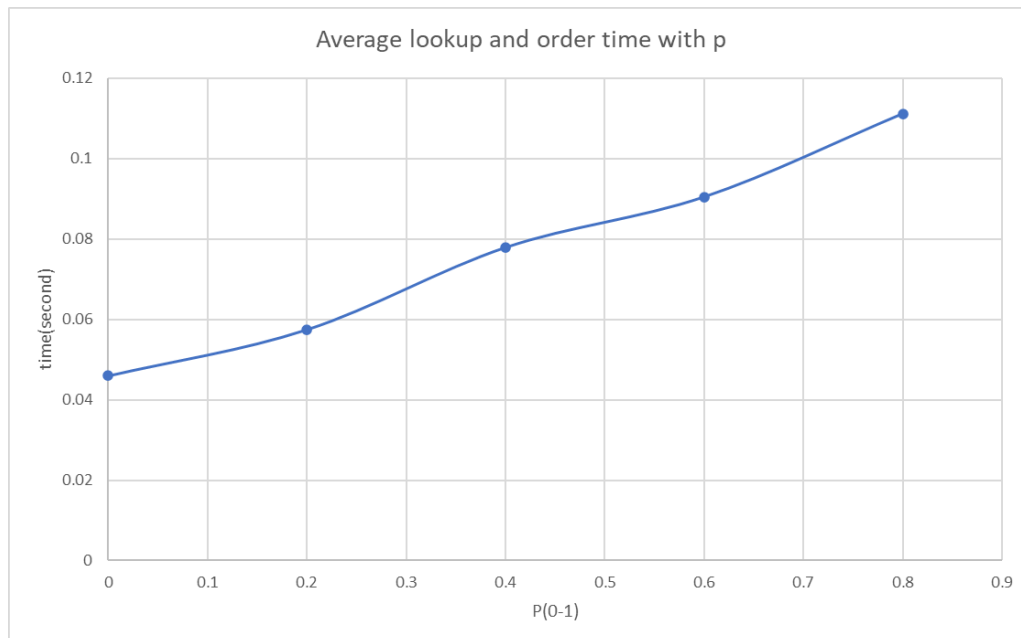
average running time for look up and order is 0.0779076099395752

$p=0.6$

average running time for look up and order is 0.0904808521270752

$p=0.8$

average running time for look up and order is 0.11116886138916016



how you deployed your application on AWS.

1. run the lab and copy the credentials and download pem.

The screenshot shows the AWS Cloud Labs interface. The main terminal area displays the prompt `ddb_v1_w_ChyL_955914@runneb80181:~$`. On the right, the 'Cloud Access' panel is open, showing the following information:

- AWS CLI:** Copy and paste the following into `~/.aws/credentials`. A text box contains the following credentials:

```
[default]
aws_access_key_id=ASIAYQXB3UPW0N1IUR
aws_secret_access_key=1q2AuQJ/naYafg8hp71a16NGCQH2hw50Fv/
aws_session_token=Fuo5D2XtYkdE33//////////dAd2Cf1a33aW60q1b7yK
68b-rFFHafU1HOxCL2yyqBGFfc+KpT13n1RQWksc1a00N/IrH4QPK5bwo/t6XSD
buF8HsaF65pIGDm14BVAUjmb31L3gdGzu/+jx8B1B+JbCND3pF55MayhYea
SPT30uy8HckBuPFpudk3q1QUDUc1uRqSUF3ye8KyEkcc/FmmCoeF1UC/etzFX
61z0gn5Zxyob8x251zPF31uy1bvzzH0x2PIe62j//v6sY0Vetv60y46y1y3ru1B31
tyEw0KS0B8AG+8JafP9Hasc1D1DPRttOf1qgTEdcSKAaH3jdpmadEP0oh72K
```
- Cloud Labs:**
 - Remaining session time: 03:59:37(240 minutes)
 - Session started at: 2023-04-30T12:53:20-0700
 - Session to end at: 2023-04-30T16:53:20-0700
 - Accumulated lab time: 02:48:00 (168 minutes)
- No running instance**
- SSH key:** Buttons for 'Show', 'Download PEM', and 'Download PPK'.
- AWS SSO:** Button for 'Download URL'.
- Account Information:**

AWSAccountid	379146329503
Region	us-east-1

2. Configure AWS Settings by `aws configure`
3. Create EC2 instance
`aws ec2 run-instances --image-id ami-0d73480446600f555 --instance-type t2.micro --key-name vockey > instance.json`
`aws ec2 describe-instances --instance-id <your-instance-id>`
4. Connect to the EC2 instance via SSH
`ssh -i labsuser.pem ubuntu@<your-instance's-public-DNS-name>`
5. Install flask by pip and Git clone the project from github
6. Run each server by python 3