

**CS550 Advanced Operating Systems  
Programming Assignment 3**

**Evaluation  
Experiment-2**

**Amazon Aws**

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The assignment carries out Evaluation of the Decentralized Indexing server and Centralized Server.

I've evaluated the time taken to **Register ,Search** operations on a Indexing server a single node ,two nodes ,four nodes and eight running concurrently over **1,10,100,1000,10k,100k** operations. And Evaluated the time taken to **Obtain** File on a Peer server a single node ,two nodes ,four nodes and eight running concurrently over 1 operations. And varios File Sizes.

In centralized System,we have evaluated the timetaken to **Register ,Search** operations on a centralized server a single node ,two nodes ,four nodes and eight running concurrently over **1,10,100,1000,10k,100k** operations.

And Evaluated the time taken to **Obtain** File on a Peer server a single node ,two nodes ,four nodes and eight running concurrently over 1 operations. And varios File Sizes.

### **Conclusion:**

Here, we have evaluated register,search and obtain the files of varios sizes.and it runs on Amazon aws cloud over 1 file on each server. As the number of nodes increases,time to register will increases in DIS and some times it will constant but in centralized server,as number of operations increases,time will also increases., and search is increases initially because IN DHT, it runs on core uses maximum speed. And obtaining file is also uses maximum core speed. In centralized Server,load balance is high when compared to Decentralized indexing server.In DHT, we have high efficiency compared to centralized System.