



1	Google	4	GFS Bigtable MapReduce	Google	
2	Amazon	4	S3 Dynamo EC2		1-4 10
3	Hadoop	4	Hadoop	HDFS	
5	Hadoop	4	Yarn		
6	Hadoop	4	Hadoop	ZooKeeper Hbase Pig	
8	Hadoop	4	Hive		5-6 10
9		4			
10	OpenStack	4	OpenStack Glance	Nova Swift	
12		4	Paxos DHT Gossip		7-12 10
		36			
4	VMware Workstation	4	VMware Workstation 12 CPU Linux VMware		
7	Hadoop	4	Hadoop	SSH Hadoop	
11	MapReduce	4	MapReduce		
13		4	UI D		
14		4	UI D		

	20					
	5				0.15	
	3	0	5		0.15	
		1	3	10	5	0.10
	5				0.20	
	1.			2.		0.40
		10-15			1-2	
2018-03-19						

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