Week 2 Exercise 1 – Exploring Cloud Computing

Use the following questions to explore cloud computing. Use the internet to research your answers.

1. What is Cloud Computing?

   It is a type of distributed computing, which refers to the huge data computing processing program is divided into numerous small programs through the network "cloud", and then processed and analyzed by a system composed of multiple servers to obtain the results and return To the user.

2. What is the difference between a Public Cloud and a Private Cloud?

   Public clouds provide a simpler way to access the scalability and one-time payment of cloud computing. Private cloud realizes the combination of the scalability of public cloud, the control of private infrastructure, and fixed costs.

3. Provide examples of five different Cloud Service providers.

		AWS	Azure	google	Ali Cloud	Huawei Cloud
storage		s3	noSQL	bigtable	Cloud storage	Cloud hard drive
		EBS	resis storage	MySQL	Cache database	Offline data
		EFS	Cloud storage		Cold storage	transmission
		GLACIER				
compute		EC2	VMs	PaaS	Elastic Experiment	Mirror
application		WorkSpaces	AD	DNS service	Cloud engine	Desktop cloud
		APPStream	CRM	Secure interconnection	Performance Testing	Cloud terminal
Data information		cloudsearch	CDN	translation		
		EMR	Content protection	Machine learning		
		DP				
Platform software		SQS	WEB Develop	data flow	VPC	IPaddress
		SWF	API management	Messaging service		Elastic Broadband
		DS				
Operation and maintenance		BeanTalk	automation	monitor	Cloud monitoring	
		ops works	mission plan			

4. Amazon with its Amazon Web Services was one of the first providers for dedicated, on demand and pay-per-use web services. The services it included are:

   - Compute(EC2)

   is a virtual server or a physical server for users to rent. It belongs to IaaS type.
   - Storage
   S3 This is Amazon's storage service, which is similar to a cloud storage or network disk. When users use it, they only need to upload and download files to this service. S3 is also a service and cannot be connected to the server through tools such as xshell and rdp.
   - Database RDS is a database service of Amazon Cloud, providing database engines such as mysql, sqlserver, oracle