

<Cloud Computing and Applications>

Part I: Installation and Use of Virtual Machines

Install VMware Workstation;

Create a virtual machine using VMware Workstation and install CentOS system;

Create a virtual machine using VMware and install the Windows Vista operating system;

Create a virtual machine using VMware and install OpenStack All-in-one mode.

Requirement: Detect and configure the network under different systems, check if the browser can access the internet, ping the virtual machine from the host to check if communication is working, and put the results into the report. Create a VM instance using the installed OpenStack and display the results in the report.

Part II: Use of Cloud Computing Platforms

AWS Public Cloud Server Configuration: create an instance, configure a security group, view and access the instance.

AWS Network and Security Configuration: create a secret key pair, create a VPC, create a VPC security group, create an instance, and perform web access to achieve remote SSH access.

AWS Storage configuration: create and mount EBS volumes, create and use snapshots, and use object storage S3 to upload and download files.

Report requirements:

Put the key steps during the installation process into the report; Explain and summarize the key steps and configurations, record and analyze the problems encountered and solutions.