

## RHCE Practice Exam 2

- 20 GB of disk space on the primary disk /dev/sda.
- 5 GB of disk space on the secondary disk /dev/sdb, which only exists on ansible1 and ansible2.
- The root user account configured with the password “password” on each of the servers.
- The control server with a user account “tekup”. SSH public and private keys have been generated for this user. No further configuration has been done yet.

In the assignments in this exam, you'll need to create scripts and yaml files. Make sure that all these scripts are stored in the directory /home/tekup.

### Common Tasks

- Configure the control host with a static inventory, as well as the ansible.cfg configuration file. In the static inventory, configure the following host groups:
  - Group test with tekup1 as a member
  - Group dev with tekup2 as a member
  - Group prod with tekup3 and tekup4 as members
  - A group servers, with groups dev and prod as members
- Ensure that hosts can be reached through their FQDN, but also by using the short name (so tekup1.example.com as well as tekup1).
- Create a playbook with the name setupreposerver.yml where the vsftpd service is started as well as enabled, and it allows anonymous write to the ftp service.
- Question 2 - Services and Firewalls:
- Create a playbook that makes sure that there is a running web server on the group prod on port 8888. Set up a firewall rule to allow incoming HTTP traffic but block all other incoming connections. Verify that the rule is active and effective by creating a sample index.html file and curl it.

- Question 3 - File Permissions:
- You have a directory called "confidential\_data" that should only be accessible by the "admin" user and members of the "finance" group. Files created under "confidential\_data" should belong to "finance" group, and files can only be deleted by its owner or root. Set appropriate permissions on the directory and its contents to achieve this.
- Question 4 - Package Management:
- Install the mysql database server package and its required dependencies using the appropriate package manager. Verify that mysql service is running and set to start automatically on system boot.
- Question 5 - Cron Jobs:
- Create a cron job that runs an ansible adhoc module every day at 2:00 AM. The module should create a compressed backup of the "/etc" directory and save it to "/var/backups/etc\_backup.tar.gz."
- Question 6 - Disk Management:
- You have the disk /dev/sda as the main disk for this task. Configure the system to automatically mount the new disk at boot time. The mount point should be "/data" and use the ext4 filesystem.
- Question 7 - User Management:
- Create a new user called "sales\_user" with the home directory set to "/home/sales\_user." The user should belong to the "sales" secondary group and have a default shell of "/bin/bash."
- Question 8 - Roles Management:
- Write an Ansible playbook to automate the deployment of a load balancer (hint: use the geerlingguy.haproxy role). The playbook should configure the load balancer on tekup1 as a frontend server and share the load between tekup2 and tekup3 as backend servers.
- Question 9 - Repository Management:
- Create repository files BaseOS and AppStream such as:
- The URL of BaseOS is: [http://redhat.com/repos/x86\\_64/BaseOS.repo](http://redhat.com/repos/x86_64/BaseOS.repo)

- The URL of AppStream is: [http://redhat.com/repos/x86\\_64/AppStream.repo](http://redhat.com/repos/x86_64/AppStream.repo)