RHCSA 8 (EX 200) Practical Exam

Max. Marks: 300   Duration: 2.5 Hours (150 Minutes)
Passing Score: 210/300

Introduction:

This practice exam is for those that have gone through an RHCSA course/book and want to test their knowledge before sitting the RHCSA 8 exam.

Automatic Exam Setup Using Vagrant (Optional):

Here is an automated exam environment deployment for Mac/Linux/Windows that deploys the practice exam environment for you, including IPA server/client installation and configuration. You can also use your own lab environment. Navigate to the below repo and follow the README instructions: https://github.com/rdbreak/rhcsa8env It's recommended you make a separate/bin directory and then clone the environment. Check the included README.md for the environment info and instructions.

Systems Set Up:

Hostname - system1.eight.example.com
1. IP - 192.168.55.150/24
2. DNS - 8.8.8.8
3. Gateway - 192.168.5.1

Hostname system2.eight.example.com
1. IP - 192.168.55.151/24
2. DNS - 8.8.8.8
3. Gateway - 192.168.5.1

If you're not using the automated deployments, then install RHEL 8 with "Workstation", then add "Development Tools, Graphical Administration Tools, and Container tools" to your installation. Configure the partitions as follows:
1. 15GB disk space with LVM partitions.
a. 10GB -/
b. 1GB swap
C. 1GB boot
d. 4GB unallocated space

2. If you're using a custom environment, then add an additional 5GB disk for use in the exam. If you're using the automated deployment, then an additional disk is already supplied for you to use.

The below questions assume you're using the automated deployment but you can also use a practice environment you created. However, you will have to set up your own repo, change host names, IP addresses, etc to reflect your own environment details.

P.T.O.

Note:

Ensure that all the tasks are implemented with firewalld and SELinux enabled. Your server should be able to survive the reboot.

1. Interrupt the boot process and reset the root password, change it to "redhat" to gain access to the system.

2. Repositories are available on the repo server at:
   http://repo.eight.example.com/BaseOS
   http://repo.eight.example.com/AppStream

3. The system time should be set to your time-zone and ensure that NTP sync in configured.

4. Verify that server1 is using the network, IP, DNS & GW settings as mentioned above in the instructions. If not then make necessary corrections.

5. Add the following secondary IP Address statically to your currently running interface, it should be done in such a way that it doesn't compromise your existing settings.
   IPv4 – 10.0.0.6/24
   IPv6 - fd01::100/64

6. Enable packet forwarding on server1, it should persist after reboot.

7. Server1 should boot in multi-user target by default and boot messages should be present there (not silenced).

8. Create a new volume group of 3 GB having name as "vgexam".

9. Create a new logical volume of 1 GB having name as "lvexam" on "vgexam" volume group.

10. The "lvexam" logical volume should be formatted with XFS filesystem and mount persistently on the /mnt/lvexam directory.

11. Extend the XFS filesystem on "lvexam" by 1 GB.

12. Use the appropriate utility create a 4TiB thin provisioned volume.

13. Configure a basic web server that displays "Welcome To Nehra Classes" once connected to it. Ensure the firewall allows the http/https services.

14. Find all files that greater than 4 MB in the /etc directory & copy them to /find/largefiles directory.

P.T.O.

15. Write a script named as nehraclasses.sh in the root directory on server1:
    a) If "NehraClasses" is given as argument, then the script should give the output as "NehraClasses are awesome."
    b) If "Subscribers" is given as argument, then the script should give the output as "Our subscribers are great."
    c) If the argument is anything else or empty, then the script should give the output as "Please use ./nehraclasses.sh NehraClasses|Subscribers to get the output."

16. Create users vikas, harish, john & andrew.
    a) All the new users should have a file named as "welcome" in their respective home directories after accounts creation.
    b) All user passwords should expire after 45 days and there should be at least 8 characters in the passwords.
    c) Users vikas & harish should be there in "Indian" group, if group doesn't already exist, create it.
    d) Users john & andrew should be there in "UK" group, if group doesn't already exist, create it.

17. Only the members of the Indian group should have access to the /Indian directory. Make vikas the owner of this directory, make the Indian group the group owner of this directory.

18. Only the members of the UK group should have access to the /UK directory. Make john the owner of this directory, make the UK group the group owner of this directory.

19. The new files should be owned by the group owner and only the file creators should have the permissions to delete their own files.

20. Create a cron job that writes "The practice exam was very easy & I am ready to clear the RHCSA certification, Thanks Nehra Classes" to /var/log/messages file at 01:00 PM at weekdays only.

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