Exam 2

Node 1 `node1.example.com`

1. Using basic tools

- In file /etc/passwd find lines with word "bash" and copy the whole line with matching word to a new file in /root/matches

2. Select a tuning profile

- Set recommended tuning profile

3. Create an archived file

- Create 10 files starting from file1 to file10 in a directory /exam2

- Archive all files from directory /exam2 to an archive named myarch.tar and put it in /exam2 directory

4. Configuring service

- Create directory /www and create in this directory file index.html

- In file index.html write the text "I like RHCSA"

- Edit httpd config to use by default /www directory for search documents

- Httpd service should start automatically at boot

5. Set environment

- Set environment "EXAM=RHCSA" for user Anna

- The environment should be persistent

6. User management

- Create a user named Bob with UID 2000

- Set the Bob account to expire 10 days from the current day

- Edit configuration that every newly created user have a password which should change every 30 days

- Set sudo privileges for user Bob without the requirement of using a password

7. Managing files

- Write bash script which after executing displays sentence "Hello World" – script should be named hello.sh and should be placed in /root directory

- For script hello.sh set permissions read, write and execute only for user root

- Create a soft link to script hello.sh and place it in /tmp/soft_link

8. Ssh connection

- Set ssh key-based authentication for user Bob from node1 to node2

- User Bob should connect from node1 to node2 without providing a password

- Send file /etc/fstab from node1 to node2 with destination /tmp/fstab_backup

9. Set hostname

- Set hostname to node1

10. Set persistent logs

- Edit config for System Journal that logs preserve reboots

- Create config in /etc/rsyslog.d/ with a record that all messages with authpriv facility and any priority will be send to the file /var/log/rhcsa_secure.log

11. Mount network share

- Create directory /mnt/my_share

- Mount to /mnt/my_share Filesystem which is exported from host main.example.com:/export_files

- NFS share should be mounted after reboot

12. Managing containers

- Log in to the Red Hat repository registry.access.redhat.com

- Use the httpd image registry.access.redhat.com/rhscl/httpd-24-rhel7

- As a user student Create a container called mysite

- Port 8080 should be redirected to the container port 8080

- Mount the /home/student/www directory to /var/www/html/ directory in container

- Create the systemd unit named mysite to manage container with systemctl

- Mysite service should work after reboot and be managed via systemctl commands

13. Installing module

- Install the postgresql:12 module

14. Managing Stratis

- Create Stratis filesystem named fs1 in Stratis pool1 based on /dev/sdb

- Mount Stratis filesystem fs1 to directory /my_stratis

- Stratis filesystem should be XFS and be mounted after reboot

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Node 2 node2.example.com

1. Set Selinux

- Set SELinux to permissive mode

2. Create partition

- On disk /dev/sdb create new GPT partition with size 512MiB

- Make vfat filesystem for newly created partition

- Mount newly created partition to /vfat_rhcsa directory

- Partition should be mounted after reboot

3. Managing LVM

- On a disk /dev/sdb create a new partition with size 1GiB

- Create a physical volume using newly created 1GiB partition

- Create volume group named vgex with default physical extents 10MiB from a new physical volume

- Create logical volume belongs to vgex volume group with size 30PE and named lv_rhcsa

4. Managing SWAP

- On a disk /dev/sdb create a new swap partition 512MiB

- Create swap from newly created partition and set that newly created swap will have the highest priority

- New swap should be additional swap space and should preserve reboot

5. Resolving names

- Set resolution for name rhcsa.example.com as an address 192.168.0.10

6. Basic tools

- Find all files in directory /etc with a size larger than 3MB and copy them to /findings directory

Linux RHCSA preparation course