

**1. Install a Linux distribution (e.g., CentOS or REDHAT) on a virtual**

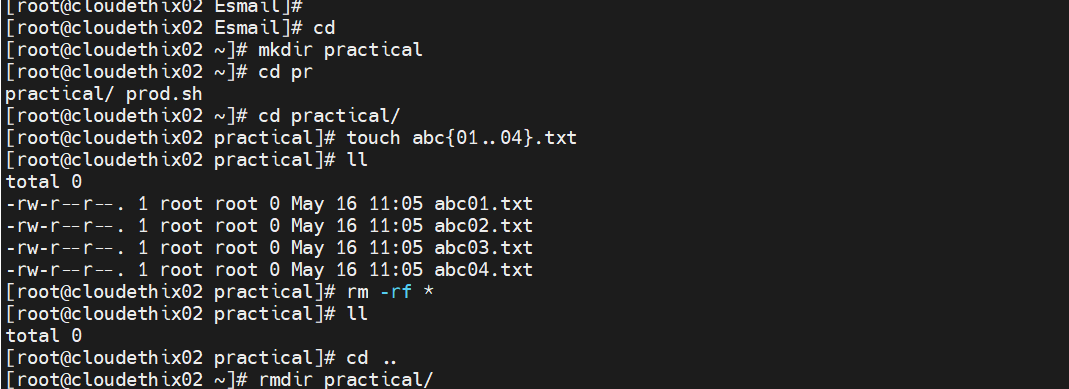
**machine or in Cloud.**

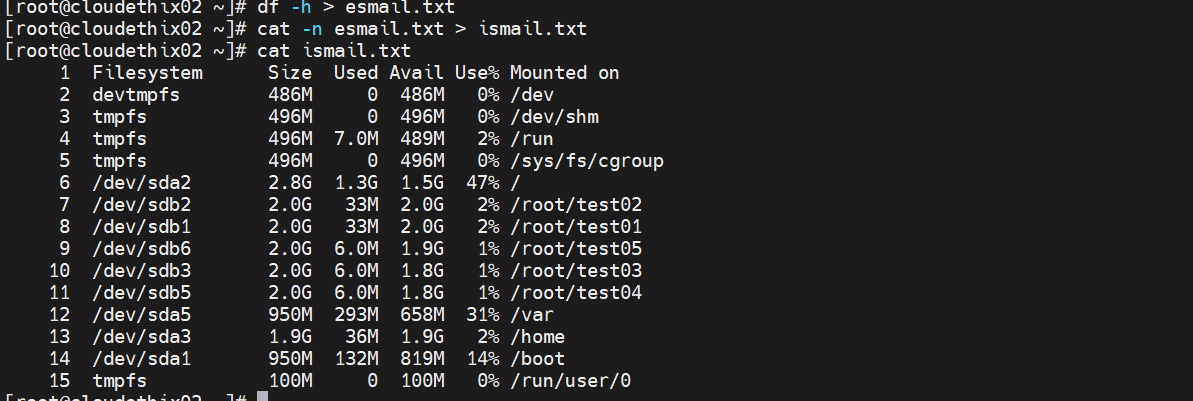


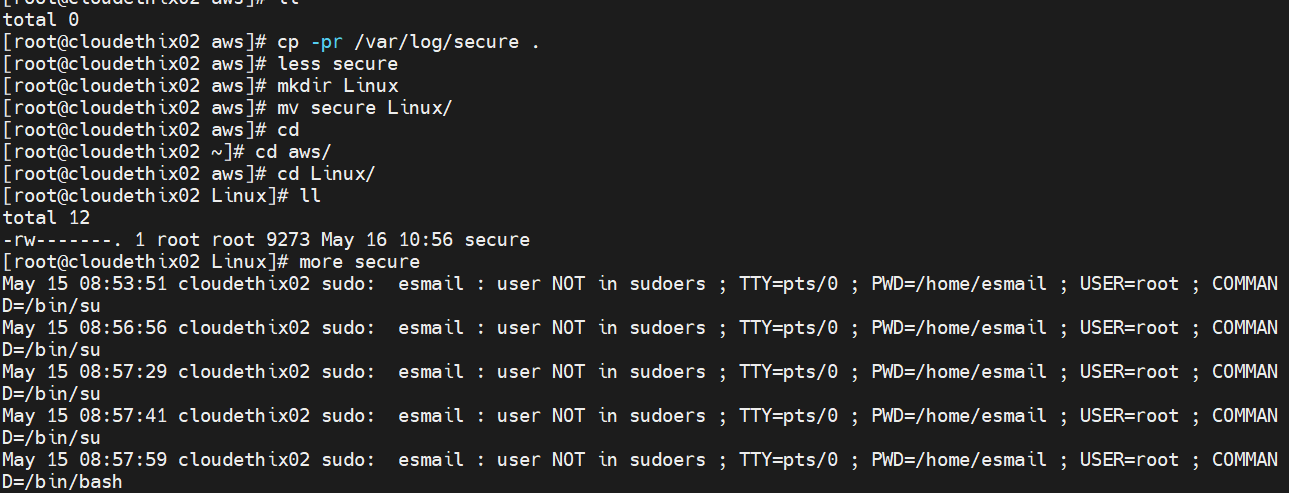
**2. Demonstrate basic Linux commands (e.g., ls, cd, pwd, mkdir, rm, rmdir, cp, mv, cat, less, more, head, tail,**

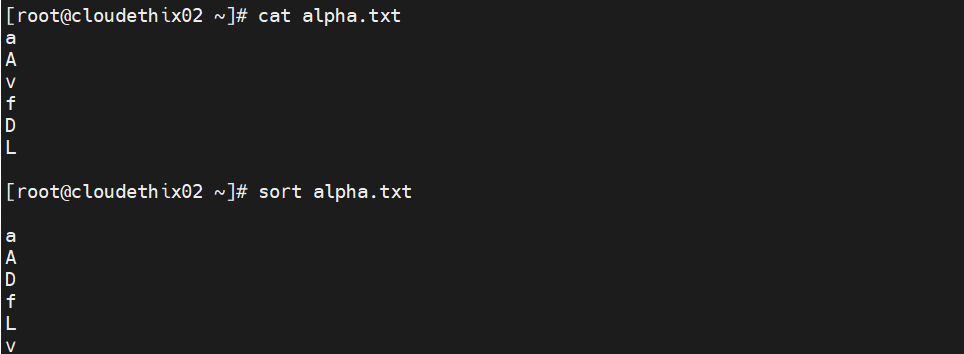
**sort, uniq, wc, diff, sdiff, cmp, echo, date, uptime, hostname, w , hostnamectl, clear, exit, script).**

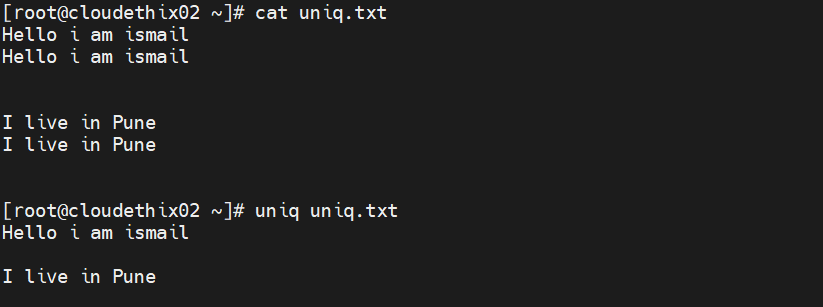


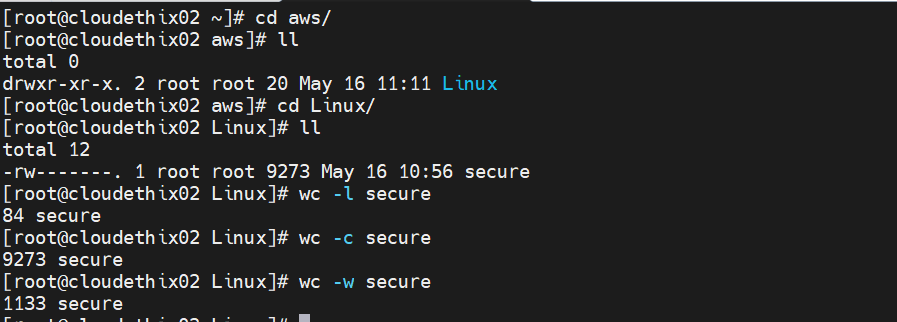


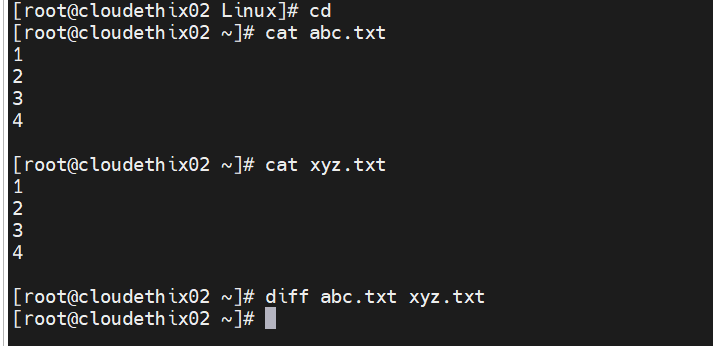


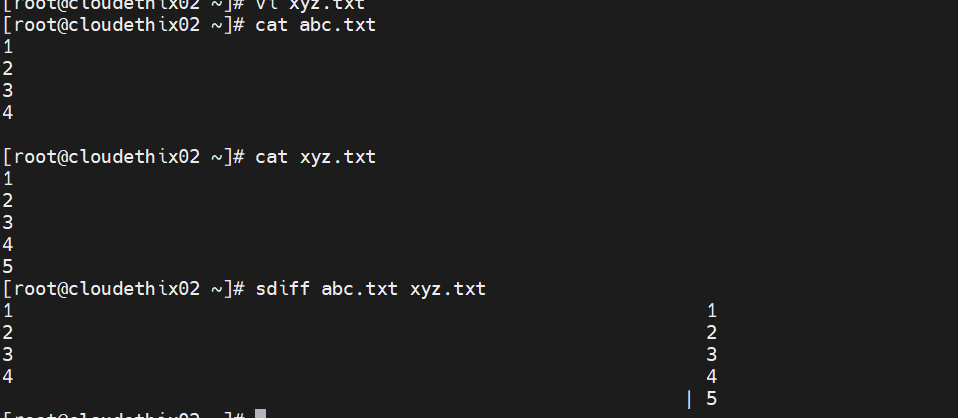


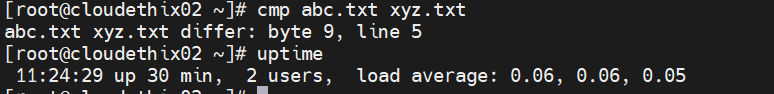


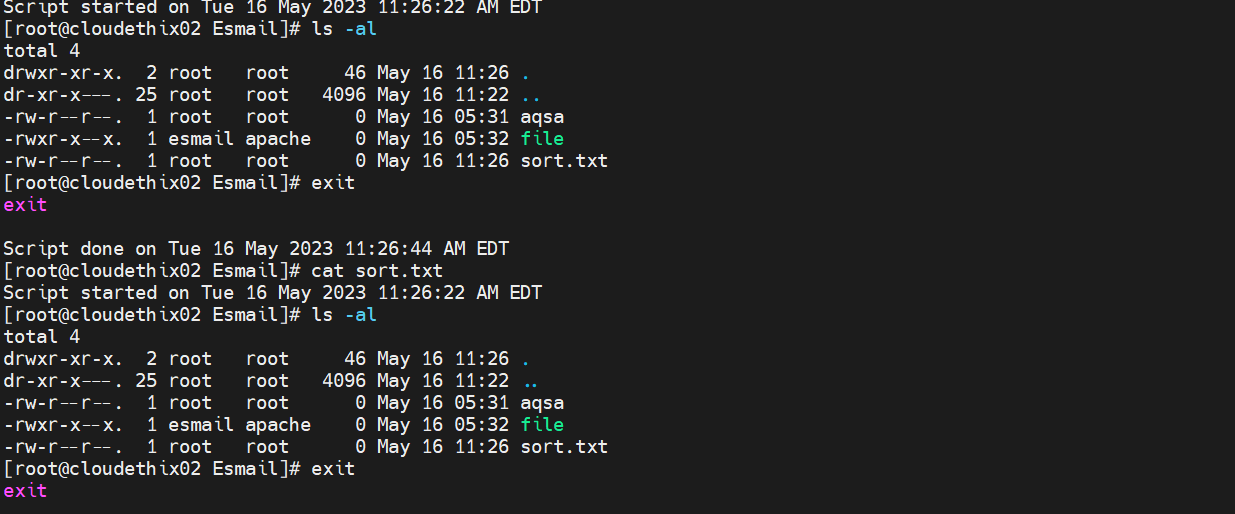


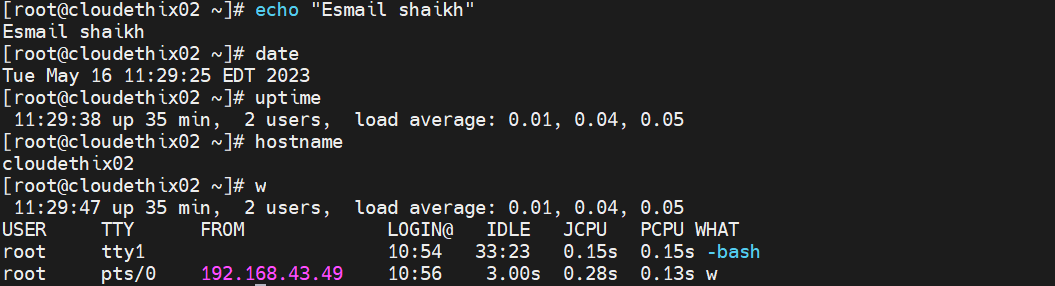






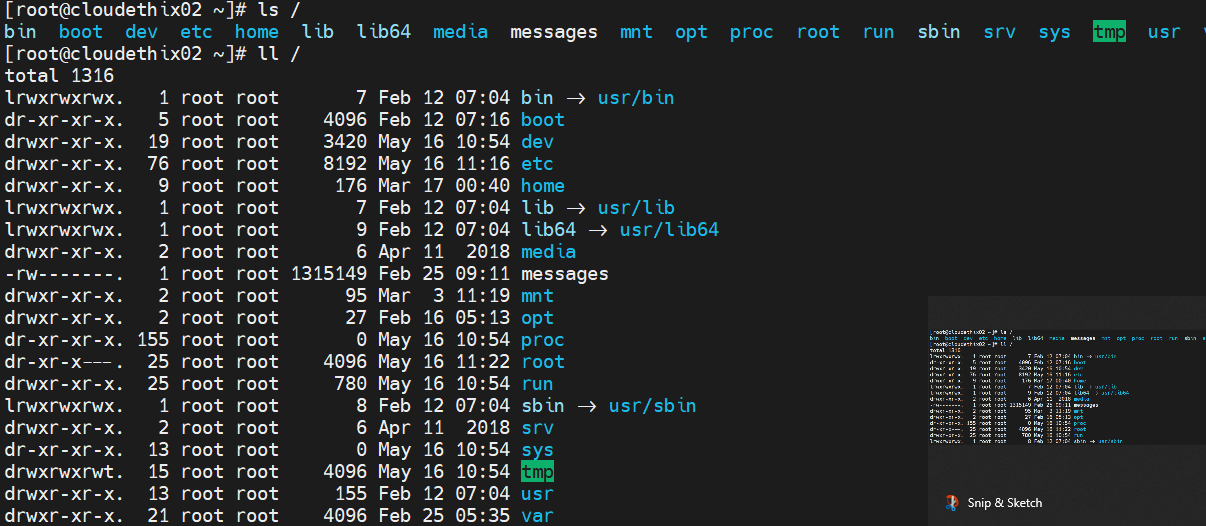






**3. Explore the Linux file system hierarchy in Linux (e.g., /, /home, /etc,**

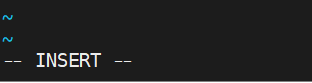
**/usr, and /var).**

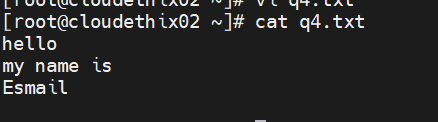
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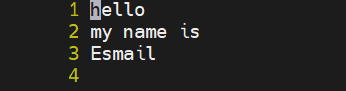
**4. Demonstrate to use a text editor with 8 commands (e.g., vi, vim or**

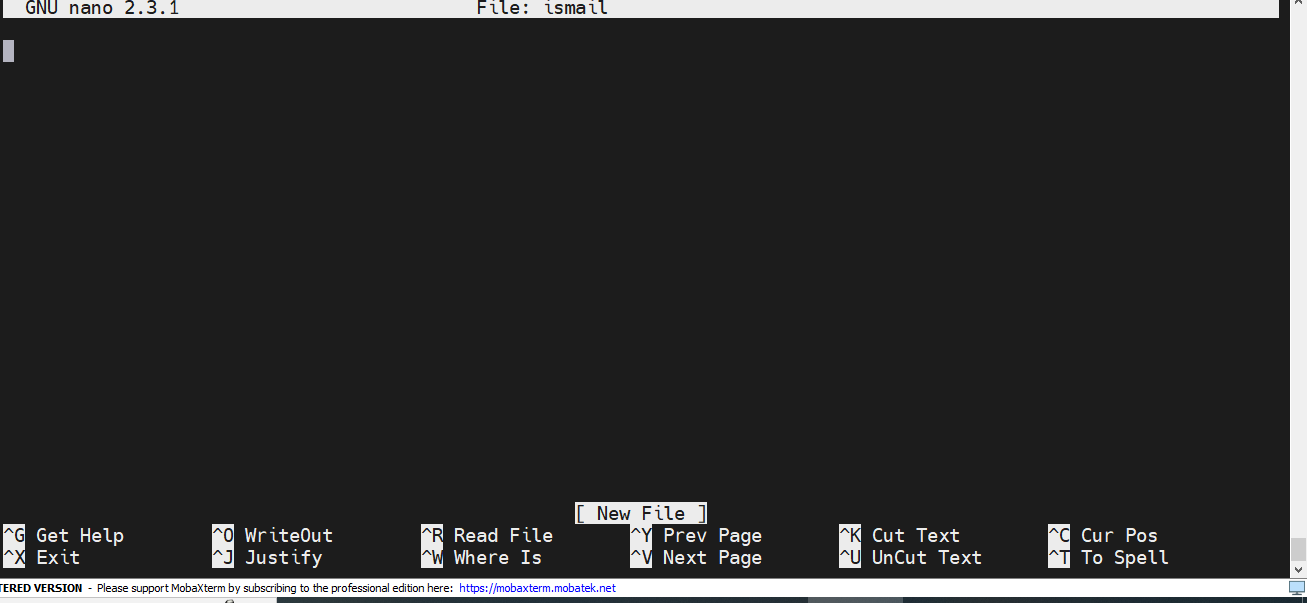
**nano).**

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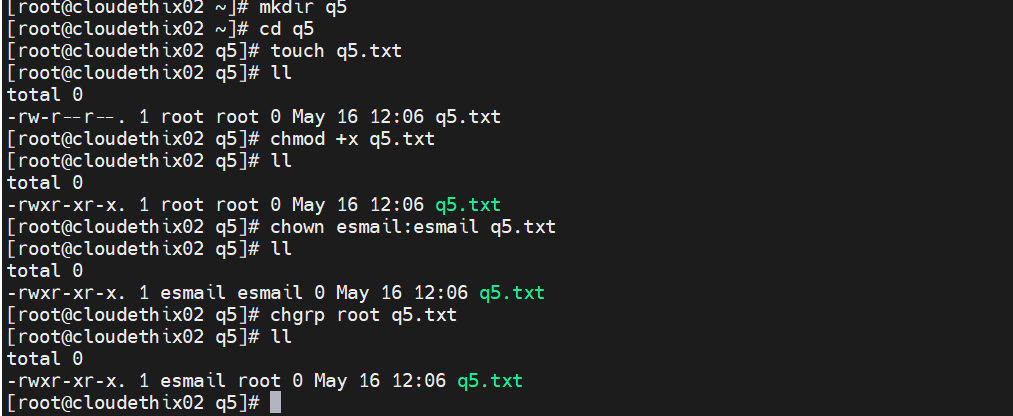
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**:set nu**

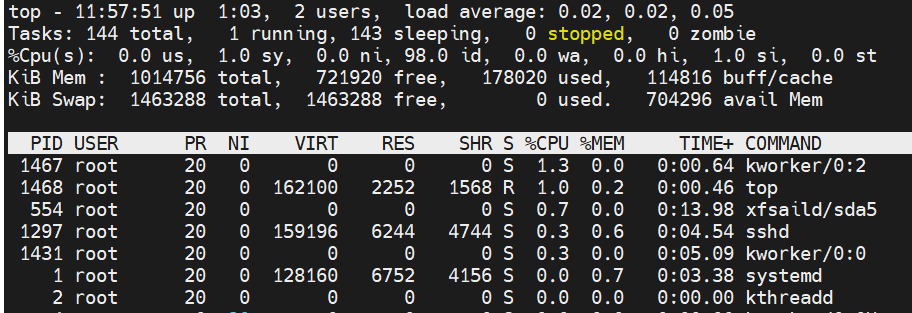
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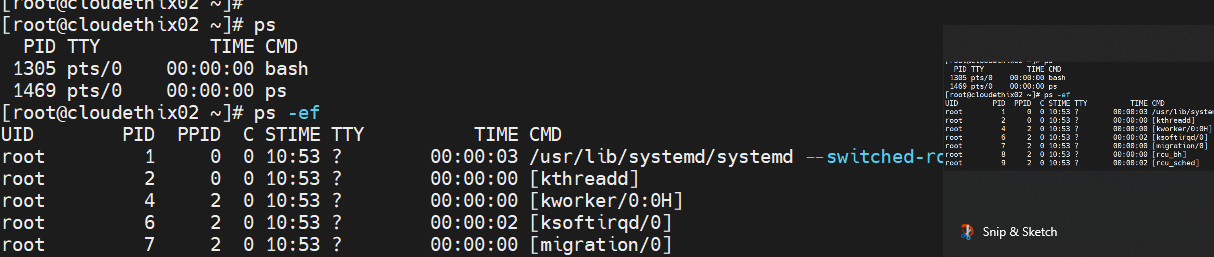
**5. Demonstrate file permissions and ownership to single or all files in all directories (e.g.,**

**chmod, chown, and chgrp)**

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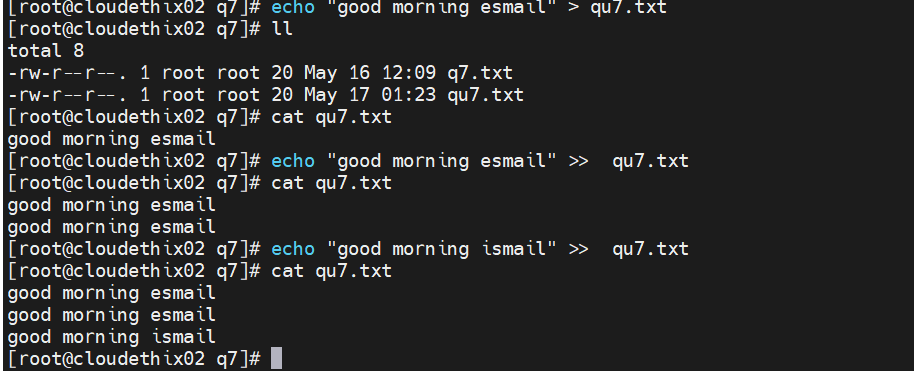
**6. Demonstrate about process management (e.g., ps, top, kill and nice)**

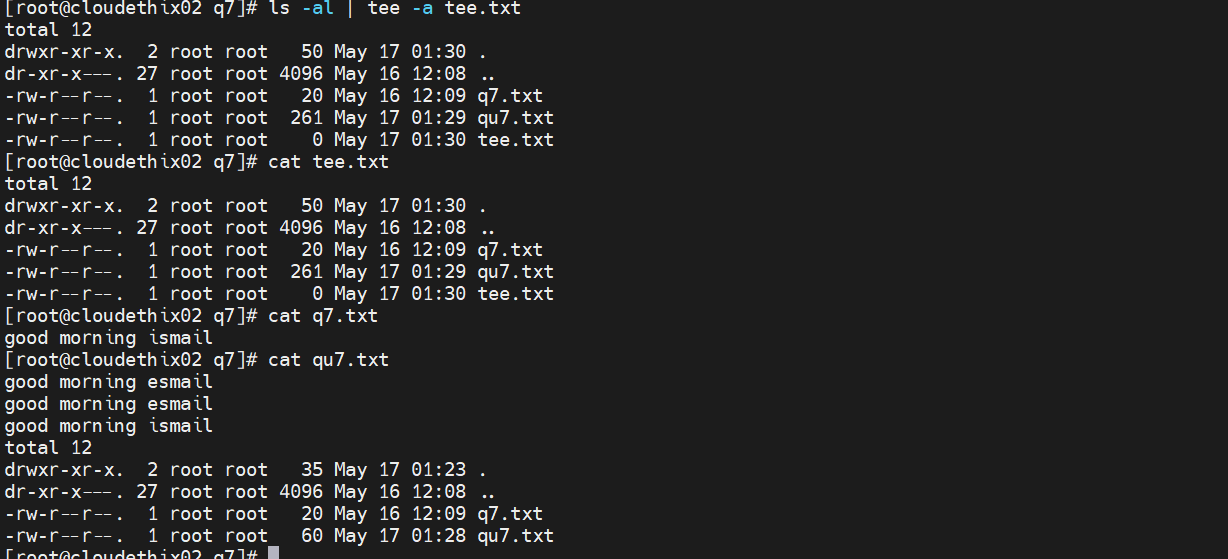
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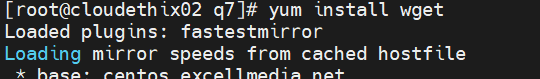
**7. Demonstrate to use input/output redirection and piping (e.g., >, >>, <, |, and tee).**

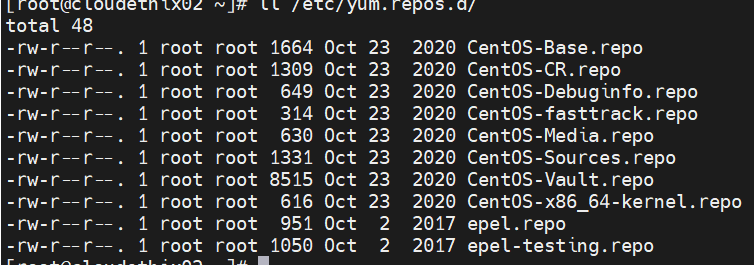
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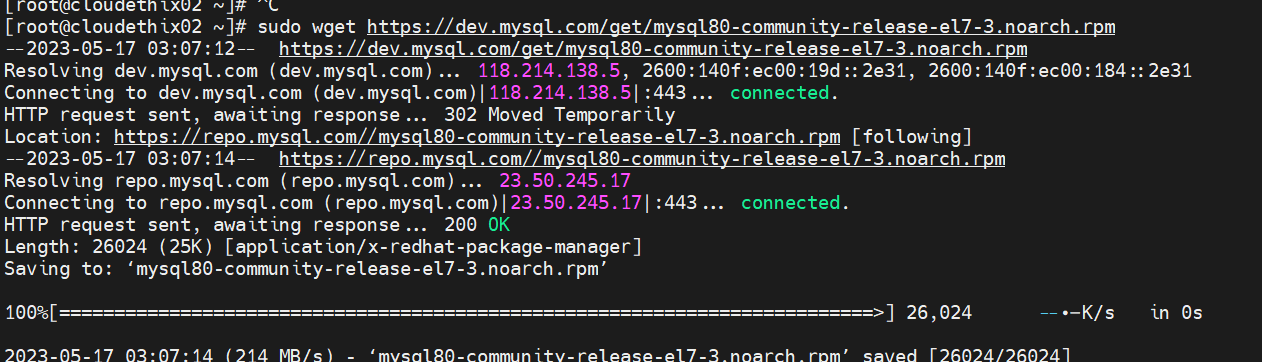
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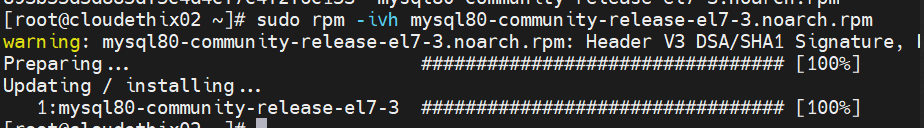
**8. Familiarize yourself with package management. Download and install rpm packages**

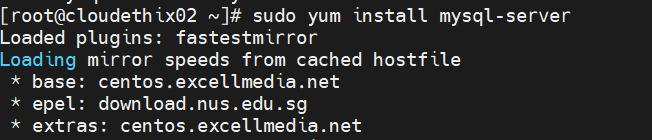
**using rpm command. (e.g., yum, or rpm).**

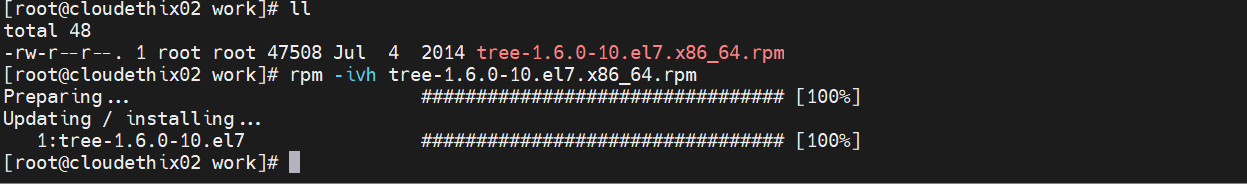
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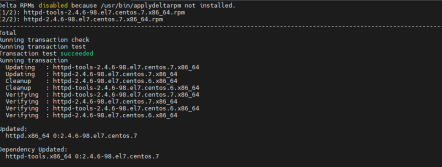
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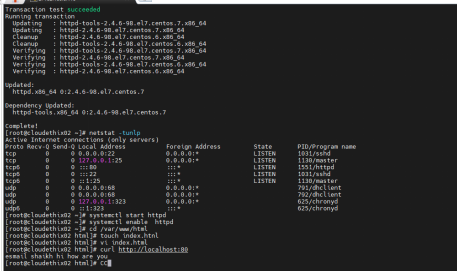
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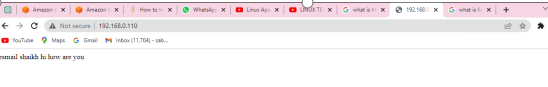
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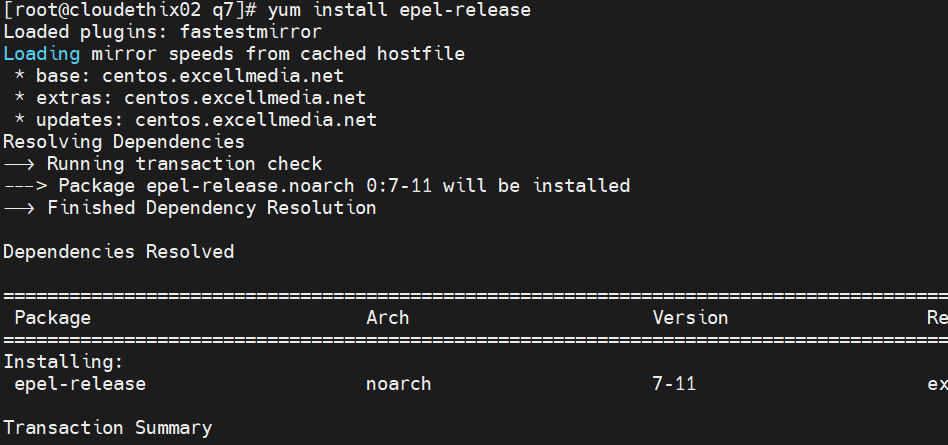
**09. Configure and manage services httpd & nginx (e.g., systemctl and service). Use default**

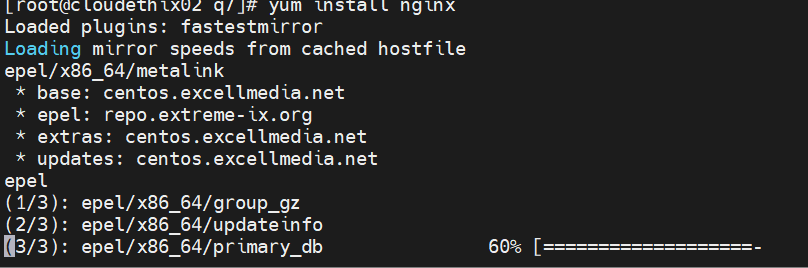
**index.html as home page , change default document root of http.**

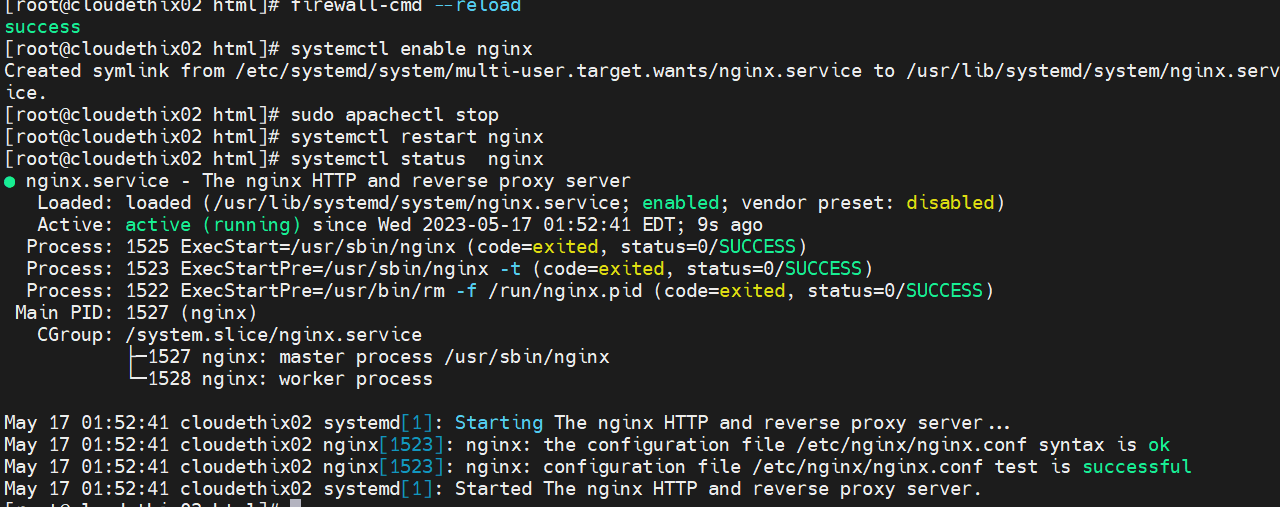
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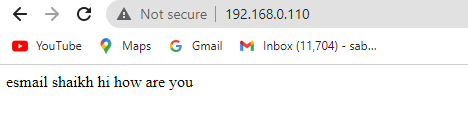
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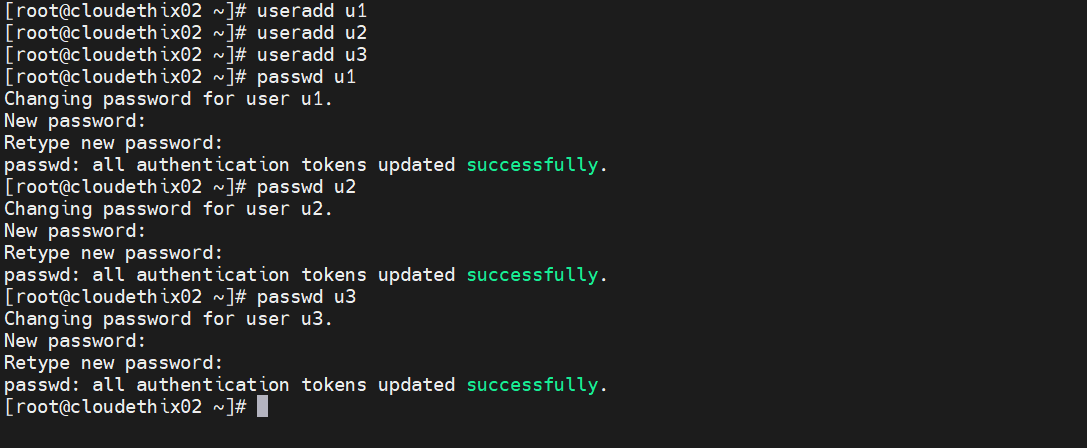
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**10. Demonstrate about users and groups (e.g., adduser, usermod, groupadd, and**

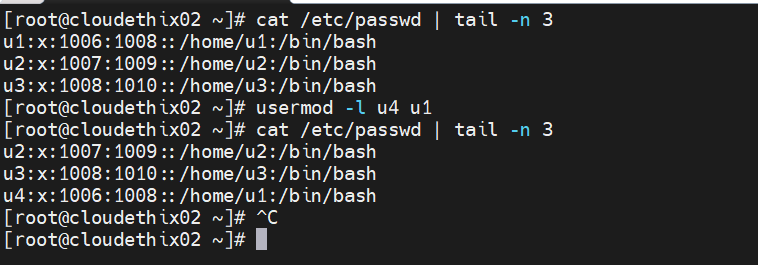
**groupmod).**

**Create multiple users & groups. Add users to multiple groups & modify the user-level &**

**group-level permissions**

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