* **Question 1**

10 out of 10 points

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|  |  | | | |
|  | What is a sample output of the following command:  echo \$PATH |  |  |  |
| |  |  | | --- | --- | | Selected Answer: | Correct  $PATH | | Answers: | Invalid input. | |  | Correct  $PATH | |  | /usr/local/sbin:/usr/local/bin:/usr/sbin:/usr/bin:/sbin:/bin:/usr/games:/usr/local/games:/snap/bin | |  | PATH | |  |  |  |

* **Question 2**

10 out of 10 points

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|  | You have been given a netplan YAML configuration file that a network administrator has prepared for your customer’s server with vlan configurations prepared for several virtual machines that the server will be hosting. You are to configure Linux using the provided configuration file.  You simply copy the file to /etc/netplan and run sudo netplan apply. You run ip addr show and find out the addresses are not applied. You start to investigate.  Here is partial the output for your ip addr show command: 8: eth7: <BROADCAST,MULTICAST,UP,LOWER\_UP> mtu 1500 qdisc fq\_codel state UP group default qlen 1000     link/ether 00:0c:29:98:25:23 brd ff:ff:ff:ff:ff:ff  Here is a partial text from the netplan configuration file given to you: ethernets: …     ens33:         dhcp4: true     ens38:         addresses:             - 192.168.0.10/24         gateway4: 192.168.0.1         mtu: 1480 … What could be the problem and how can it be fixed? |  |  |  |
| |  |  | | --- | --- | | Selected Answer: | Correct  The name of the interfaces in the netplan configuration file are not matching the actual interface names in the system. Modify the file and correct the names for all interfaces. | | Answers: | Correct  The name of the interfaces in the netplan configuration file are not matching the actual interface names in the system. Modify the file and correct the names for all interfaces. | |  | he configuration file does not consider the number of available network ports on the server. | |  | ens7 interface has DHCP enable. It should be set to static. | |  | ens8 interface is set to static IP and that will not work with vlans | |  |  |  |

* **Question 3**

10 out of 10 points

|  |  |  |  |  |
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|  | What is a console? |  |  |  |
| |  |  | | --- | --- | | Selected Answer: | Correct  Console is the hardware device that is used to run the terminal. Generally can be a screen and keyboard. | | Answers: | Correct  Console is the hardware device that is used to run the terminal. Generally can be a screen and keyboard. | |  | is the program that runs when the user logs into a system. | |  | Is the program that user can use to interact with the OS. | |  | is the Terminal Emulator software that is used to connect to a machine remotely. | |  |  |  |

* **Question 4**

0 out of 10 points

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|  | We have the following directory shown in the output of ls -l:  drwxrwxr-x 2 user  user     4096 Jun 23 15:38 software\_backups  what does the following command accomplish:  chmod u+s software\_backups |  |  |  |
| |  |  | | --- | --- | | Selected Answer: | Incorrect  Users execute file with permissions of the file owner | | Answers: | Correct  It has no meaning | |  | Users execute file with permissions of the file owner | |  | it sets the sgid bit on the file | |  | it sets the sticky bit on the directory | |  |  |  |

* **Question 5**

10 out of 10 points

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|  | What are two types of shell in any operating systems? |  |  |  |
| |  |  | | --- | --- | | Selected Answer: | Correct  GUI and CLI | | Answers: | Terminal and SSH | |  | Graphical and web interface | |  | Correct  GUI and CLI | |  | PuTTY and Bitvise | |  |  |  |

* **Question 6**

10 out of 10 points

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|  | You are setting an IP address 172.16.0.22/16 on interface enp2s1. What is the ip command to accomplish this. Fill in the blank (each \_\_\_ indicates one argument or option) (case sensitive)  sudo ip \_\_\_\_ \_\_\_\_ \_\_\_\_ \_\_\_\_ \_\_\_\_ |  |  |  |
| |  |  | | --- | --- | | Selected Answer: | Correct addr add 172.16.0.22/16 dev enp2s1 | | Correct Answer: |  |  |  |  |  | | --- | --- | --- | | **Evaluation Method** | **Correct Answer** | **Case Sensitivity** | | Correct*Exact Match* | addr add 172.16.0.22/16 dev enp2s1 | *Case Sensitive* | | Correct*Exact Match* | address add 172.16.0.22/16 dev enp2s1 | *Case Sensitive* |  |  | | --- | |  | |  |  |  |

* **Question 7**

0 out of 10 points

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|  | What are some examples of Windowing systems? |  |  |  |
| |  |  | | --- | --- | | Selected Answer: | Incorrect  LightDM, LXDM, GDM3 | | Answers: | LightDM, LXDM, GDM3 | |  | Correct  Xorg, Quarts Compositor, Enlightenment | |  | X11, Wayland, Mir | |  | Metacity, xfwm, IceWM, Compiz | |  |  |  |

* **Question 8**

10 out of 10 points

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|  | What is the sample output for the following command?  echo `date`       # " ` " are backquotes |  |  |  |
| |  |  | | --- | --- | | Selected Answer: | Correct  Mon Jun 22 14:28:06 UTC 2020 | | Answers: | Correct  Mon Jun 22 14:28:06 UTC 2020 | |  | date | |  | command not found | |  | $DATE | |  |  |  |

* **Question 9**

0 out of 10 points

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|  | what does pwck command do? |  |  |  |
| |  |  | | --- | --- | | Selected Answer: | Incorrect  checks the shadow file to see if the passwords are valid | | Answers: | it looks for errors in groups file | |  | checks the shadow file to see if the passwords are valid | |  | it looks for errors in /etc/skel file | |  | Correct  Checks the passwd and shadow file for inconsistency | |  |  |  |

* **Question 10**

10 out of 10 points

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|  | What can "touch" command be used for? (choose two) |  |  |  |
| |  |  | | --- | --- | | Selected Answers: | Incorrect  Used to change the file permissions | |  | Correct  Update the access and modification times of file to the current time. | |  | Correct  To create a new empty file. | | Answers: | Used to change the file permissions | |  | To update contents of the file | |  | Correct  Update the access and modification times of file to the current time. | |  | Correct  To create a new empty file. | |  |  |  |