Linux

1. What are the default ports used for smtp, dns, ftp, dhcp, ssh, squid, tftp, ntp, ldap, mysqld, tnslsnr?

2. How to find top 10 CPU & Memory consuming processes?

3. How to continuously monitor the log for a service which is running?

4. How to search for the string ":3306" in files of a directory recursively?

5. How to replace string ":3306" in files of a directory recursively?

6. How to start the "/usr/local/elasticsearch/bin/elasticsearch" application by user 'elasticsearch'?

7. How to increase the size of LVM partition, such as "/dev/localhost-vg/data"?

8. What is crontab and explain the fields in a crontab?

9. How to user vi to do this?

a. move 3 rows up

b. move to the first line & move to the last line

c. move to the beginning of line & move to the end on line

d. delete the "^M" at the end of some lines

e. delete inner '(' ')' block

f. change each 'foo' to 'bar' for the current line and the 5 next lines

g. copy the second column of 5 consecutive lines and paste them at the beginning of the 5 lines.

10. What is ulimit and explain the fields in "ulimit -a" and host to test?

Network

1. What is the physical medium of wifi?

2. What is function of Router?

3. What does a default gateway do?

4. What is the address range of a Class B network address in binary?

5. What is bandwidth of CAT5 cable and which pins are used in CAT5 Cables?

6. What is ospf?

7. What is NAT? Where would you use it? How does it work? What are some limitations?

8. What is the max length of ip packet, ethernet frame, tcp segment?

9. How to check the remote server's tcp port is open? Three ways.

10. How to show all interfaces brief summary of IP status and configuration?

11. What is the difference between trunk and access port on cisco switch and how to configure the interface?

Bash and Python

1. How to define array in bash?

2. How to debug bash script?

3. What difference between ' and '' quotes in Linux shell Scripting?

4. How to compare numbers in Linux shell Scripting?

5. How to user "Case statement" in Linux shell scripting?

6. How to get 2nd element from each line from a file, if first element equal 'foo'?

7. What difference between "$*" and "$@" in Linux shell scripting?

8. What does "set --java $JAVA_OPTIONS "$@"" in Linux shell scripting means?

9. Write down syntax for all loops in shell scripting?

10. What difference between [$a == $b] and [$a -eq $b]?

11. How to remove the 1st line from a file using command in Linxu shell?

12. What ":(){ :|:& };:" means in Linux shell scripting?

13. What is the difference between lists and tuples in Python?

14. How to create a dictionary in Python?

15. How to get the length of a list?

16. How to check in a string that all characters are digits?

17. What is the output of L[1:] if L = [1,2,3]?

DB & SQL

1. How to dump the mysql database?

2. How to dump the oracle database?

3. How to deny some hosts access mysql server?

4. How to get the list of all the tables in a database?

5. How to delete a table?

6. How to know total number of row entry in a table?

7. How to login to MySQL using linux shell?

8. How to show all indexes defined for a table?

9. What do you mean by % and _ in the LIKE statement?

10. How to display top 50 rows by SQL?

11. How to use SELECT statement find the version of the server you are running and print the name of the current database?

Docker & Git

1. Write some docker commands?

2. Write some git commands?