**Descriptive Answers**

**1. What is Provisioning?**

**A. provisioning is nothing but which we do from the scratch**

**2. What is Orchestration?**

**A.orchestration is group of automation of scripts working together in proper order**

**3. Give any two diffrence between automation done by scripting and configuration management tools.**

**A. configuration mgt tool scripting**

**1) idempotency 1) not**

**2)it says what to do 2) what to do and how to do**

**4. Name any three configuration mangement tool.**

**A. ansible,chef ,puppet,docker**

**5. How is ansible diffrent than any other configuration management tool?**

**A. \* no agents**

**\* no database**

**\* no residual s/w**

**\* no complex upgrades**

**6. Ansible playbooks are written in what format?**

**A. YAML**

**7. What is a module in Ansible?**

**A. module is a programmed unit of work to be done**

**8. What is inventory used for in ansible?**

**A. to store list of host information**

**9. Name three places where ansible variables can be stored?**

**A. @ playbooks**

**@ host\_vars**

**@ group\_vars**

**@ vars**

**@ defaults**

**10. What connection anible establishes with linux and windows node.**

**A. linux---->ssh**

**windows---->winrm**

**11. Diffrence between Remote and local execution in ansible.**

**A. local--------> by defining ansible\_connection= local in inventory it cam execute in local machine**

**remote----------> remote execution of plays using api**

**12. What is the purpose and location of ansible.cfg file.**

**A. /etc/ansible/ansible.config and present working directory**

**13. Name any two settings from anible.cfg file.**

**A. inventory= inventory-name**

**host\_key\_checking=false**

**14. Please write below a sample inventory file with host, group & group of groups syntax in it.**

**A. web01 ansible\_ssh\_host=ip ansible\_ssh\_name=vagrant ansible\_ssh\_pass=vagrant --- hostlevel**

**[webservers] ----groups level**

**web01**

**[varsinst:children] --------groups of groups**

**webservers**

**15. What is the diffrence between group\_vars & host\_vars directory?**

**A. host\_vars-----have highest precedence**

**groups\_vars---- have low precedence**

**16.What are adhocs commands used for & write below syntax of a ad hocs command?**

**A. ansible -i inventory-name -m ping web**

**ansible -i dev -m service -a “name=apache state=start”**

**17. Write below ad hoc command to gather fact varibales on all the hosts from the inventory file?**

**A.ansible -m setup -a database**

**18. What format does ansible ad hoc command returns the output?**

**A. JSON**

**19. Name three types of modules in ansible?**

**A. \* core**

**\* extra**

**\* depricated**

**20. Name any 10 modules in ansible that you have used.**

**A. file path with\_items mysql\_db mysql\_user**

**lineinfile copy template register debug**

**21. How to list all the ansible core modules from command line.**

**A. ansible-doc -l**

**22. How to display all the options/attributes for apt module from command line.**

**A.**

**23. How can you check mandatory option for any module from command line?**

**A. options (=)**

**24. What is setup module used for?**

**A. to generate fact variables**

**25. Write down sample global play declaration**

**A. ---**

**- hosts: web**

**become: yes**

**26. Write down any two tasks from playbook with its proper format and names.**

**A. - name: install nginx**

**apt: name=nginx state=present update\_cache=yes**

**- name: restart apache**

**service: name=apache2 state=started**

**27. Whats is the diffrence between sudo and become module and its purpose.**

**A. sudo- is depricated module-----which comes by default and it will be deleted in future versions**

**become- is core module------which comes by default with ansible packages**

**28. Write down playbook syntax of starting ntp service on webserver and dbservers host group at once.**

**A. -hosts:wbserver:dbserver**

**service: name=ntp state=present**

**29. How to take user input from a playbook?**

**A. vars\_prompt**

**30. What is debug module used for in playbooks?**

**A. prints statement during execution**

**31. How to store output of any task into a varible from playbook?**

**A. register**

**32. What are handlers used for in ansible and how is it diffrent from tasks?**

**A. when ever there is a change in configuration file notifier will notify it to the handler either to restart or any thing to do**

**33. Conditional execution in ansible is used for what purpose and write down its syntax with small description?**

**A. to check the condition------> when module**

**when: item not in sites**

**notify: restart mysql**

**34. What are templates used for and its format?**

**A. templates are used to copy file with variable changes into jinga2 format and then copie it into destination**

**template: src=httpd.j2 dest=/var/www/httpd.conf**

**35. What are ansible roles and its purpose?**

**A.** Roles in Ansible build on the idea of include files and combine them to form clean, reusable abstractions – they allow you to focus more on the big picture and only dive down into the details when needed.

**36. Command to generate ansible roles directory structure.**

**A. ansible-galaxy init name**

**37. Name 5 directories from ansible roles.**

**A. files vars tasks handlers templates defaults**

**38. What is {{ }} symbol used for in ansible.**

**A. to define variable {{username}}**

**39. Write down all the places where we can define variables according to its precedence.**

**A. 1----->playbook**

**2----->host\_vars**

**3------>group\_vars**

**4------>vars**

**5------->defaults**

**40. Write down syntax of dictionary variable?**

**A. with\_dict:**

**sites:**

**myapp:**

**frontened:80**

**backend:80**

**TRUE or FALSE**

**41. Setup module gets executed after executing any ad hoc command.**

True

False false

**42. Anible playbooks are written in XML format.**

True

False false

**43. ansible.cfg file is list of plays.**

True

False

**44. Fact variables is generated by ansible and we do not need to create fact varibales.**

True

False true

**45. Anible is written in Python langueage.**

True

False true

**46. Ansible works on Master and client relationship, where ansible control server package is installed on master and ansible client package is installed on all the clients.**

True

False false

**47. Ansible loop module is with\_items.**

True

False true

**48. All the templates in ansible roles has to be defined in main.yml file inside templates directory.**

True

False false

**49. All the roles uploaded in ansible galaxy website is written and owned by Ansible inc(organization).**

True

False true

**50. Ansible can only get installed on Linux machine but can manage Linux and windows nodes.**

True

False true

**51. What is GIT?**

**A. git is a distributed version control system**

**It keep track all the changes**

**52. What is a repository in GIT?**

**A.** A Git repository contains the history of a collection of files starting from a certain directory.

**53. What is github?**

**A. it is the place where we can fetch source code**

**54. What is the command you can use to write a commit message?**

**A. git commit -m “first commit”**

**55. What is the difference between GIT and SVN?**

**A. git ---> distributed version control system**

**svn----> centralized version control syatem**

**56. What is the function of ‘GIT PUSH’ in GIT?**

**A. send changes to github.com**

**57. What are branches in git?**

**A. is the place where we can make changes to data rather in master**

**58. How to check the current branch from git repository directory from CLI?**

**A. git checkout**

**59. How to get the latest changes from the github repo to your local git repo?**

**A. git pull origin mater**

**60. What is the function of git clone?**

**A. it clones all the data present in that remote directory**

**61. What is the function of git checkout?**

**A.to check on which branch you are**

**62. What is “git add” used for?**

**A. initially it adds an empty directory called .git**

**63. Explain what is commit messages?**

**A. simply it the description of your commited command/ what we wrote while we commiting t**

**64. Write down bash script to start ntp service on below mentioned IP addresses. Please note that two instances are ubuntu and three are centos.**

ntp service name for centos is “ntpd” and for ubuntu its “ntp”.

You can have only one host file and one for loop to deal with this scenario.

Hostfile name and its content:

name: devhosts

content:

192.168.1.23

192.168.1.76

192,168.1.65

192.168.1.19

192.168.1.86