## Assignment question –

## Write an ansible script to Harden the linux VM (Cover all the necessary aspects)

In computing, hardening is usually the process of securing a system by reducing its surface of vulnerability. A system has a larger vulnerability surface the more that it does, in principle a single-function system is more secure than a multipurpose one. Reducing available vectors of attack typically includes the removal of unnecessary software, unnecessary usernames or logins and the disabling or removal of unnecessary services.

CIS (Center of internet Security - <https://www.cisecurity.org/>) has provide security benchmark to hardening Linux systems. This benchmark is intended for system and application administrators, security specialists, auditors, help desk, and platform deployment personnel who plan to develop, deploy, assess, or secure solutions that incorporate Linux on x86 or x64 platform.

I have downloaded CIS benchmark document and **developed my Ansible role based on this document**. This benchmark document contains many options to secure including :

1. Filesystem configuration
2. Services
3. Network configuration
4. Auditing and logging
5. Network protocols.
6. Access, Authentication and Authorization
7. System maintenance.

To cover all aspect of security, I have added **total of 16 tasks in ansible role** from above OS hardening Benchmark list.

**How to run role** : Follow below command in sequence –

1. ansible-galaxy install prashamtated.os\_hardening\_ansible\_role
2. ansible-playbook site.yml --syntax-check
3. ansible-playbook site.yml

**Output –**

