

Advanced Topics of Linux Administration

Services have to be started automatically. You should not interact with booting machine more than is necessary (GRUB, passphrases). Use existing /boot and 2nd hard drive. You have to obtain 75% to pass the course. In a case when you will obtain 70 to 74% then you can do some auxiliary work to pass.

1, *Preparation (40%)*

- Install your distribution on physical machine (PM)
- Make sure that ssh is available from rest of the network
- Set root password to **asdf**
- Create two virtual machines (VM-A, VM-B) and set everything as for PM
- Run ftp server on each node and put file **node** into root directory
- File **node** should contain identification of machine (so PM, VM-A, VM-B)
- anonymous access to this file should be allowed

2, *Partitioning on PM (15%)*

- Create logical volume named **lv-first** which will have ~100MiB
- Allocate rest of space to logical volume **lv-second** so 40 extents will be left free for possible extensions

3, *Real data storage (25%)*

- Export iSCSI device from PM to VM-B (access from VM-A should be forbidden)
- Mount it on VM-B and create RAID level 1 which will contain iSCSI device and local (inside virtual machine) device

4, *A bit of security (10%)*

- Create encrypted logical volume on VM-A which will contain file **password** which contains only word **quarantine**

5, *A bit of clustering (10%)*

- Create a GFS filesystem (not too big) on PM

- Copy image containing this filesystem to VM-B and mount it there