# Linux System Administration (LSA) Exam Blueprint

You will be presented with a simple infrastructure that includes two connected machines on which you are expected to demonstrate your knowledge gained during the course

You will be asked to perform a set of tasks taken from the following categories

### Disks and file systems

* Disk initialization and partitioning (MBR and GPT)
* Managing LVM components
* Creating, extending, mounting, and unmounting EXT4 and XFS file systems

### Directories, files, and archives

* Creating, copying, moving, renaming, and deleting directories and files
* Editing files
* Searching for and within files
* Creating and extracting archive and compressed files

### Users, groups, and permissions

* Creating, removing, and modifying users and groups
* Controlling the ownership of files and folders
* Controlling the permissions of files and folders

### Software and service maintenance

* Adding, removing, enabling, and disabling repositories
* Installing, exploring, and removing software packages
* Starting, stopping, enabling, and disabling services

### Web servers, web applications, and databases

* Installation and basic configuration of web servers (Apache and NGINX)
* Installation and basic configuration of databases (MariaDB)
* Manage databases, tables, and users
* Querying, inserting, modifying, deleting, exporting, and importing data

### Scripting and scheduling

* Creating simple Bash scripts
* Creating, modifying, and removing scheduled tasks