Q.Explain Hadoop Deployment Layout in Brief.

**Introduction:**

*Standard deployment layout for Hadoop:*

* Hadoop has deployment layout due to the increased complexity and developing Hadoop ecosystem.
* Which pave the way for the betterment in the integration part of the Hadoop sub-projects.
* Which helps to make the installation process much easier.
* With the help of installation one can make the entry process easier and will tend to increase the adoption of the Hadoop.

***Packages:***

* Each Hadoop is divided into number of packages in order to make them to operate independently to upgrade themselves.

The packages were divided into list and they include:

* **Hadoop Common:**
* They will include the native code which needs the jar files.
* *HDFS Client:* a.) HDFS jars

b.)scripts.

c.)shared Libraries.

HDFS server: jsvc executable Yarn Client - Yarn client jars and scripts

Yarn Server - Yarn server jars and scripts

MapReduce - MapReduce jars, scripts, and shared libraries LZO - LZ0 codec Metrics - Plugins for Chukwa and Ganglia.

Other team packages are:

* Pig
* Hive
* Oozie
* client Oozie server
* Howl
* client Howl server
* PRM or RedHat is used to deploy these packages.
* And again a package is needed which will depend upon the package versions.
* In the new deployed layout one is capable of generating tarballs.

***Deployment:***

* Instead of package manager it is necessary to have a standard deployment which results in package installation.
* It is among the top level directories.
* As well it contains the sample of each.

***Path Configurations***

* Path configuration can be done at compile phase or installation phase.
* RPM has the advantage over relocating the directory and helps for configuring the path at the installation phase.
* In case, of Debian package the path can be configured even on the compile phase.

***Build phase parameter:***

* *package.prefix –* package prefix location prefix (Default /usr).
* *package.conf.dir -* configuration directory location (Default /etc/hadoop).
* *package.log.dir -* Log directory Location (Default /var/log/hadoop).
* *package.pid.dir* - pid directory Location (Default /var/run/hadoop)