1. what are the svn commands you use

* svnadmin dump /var/svn/Samsung.> .backup
* svnadmin load backup /var/svn/samg

1. what is version contrl system?

**Version Control System** (VCS) is a software that helps software developers to work together and maintain a complete history of their work.

1. what are the different version contrl systems are using in market?

* SVN
* GIT
* Clear case
* TFS
* Perforce(p4)

1. What is the role of SCM engineer?

* Version control system.
* Build management.
* Build automation.

1. mention what are the commercial and open source tools

* **Commercial tools:**
* SVN
* GIT
* **Open source Tools:**
* Clearcase
* TFS
* Perforce(p4)

1. Who developed SVN**?**

* Apache software foundation.

1. Which subversion you are using?

* 1.6

1. What is the SVN?

* Version control system is a

1. Which SVN server you are using?

* CollabNet subversion edge 4.0

1. What is SVN architecture?
2. What is working copy, local copy, repository copy/server copy?

* Working copy: Working copy is a snapshot of the repository. The repository is shared by all the teams, but people do not modify it directly. Instead each developer checks out the working copy. The working copy is a private workplace where developers can do their work remaining isolated from the rest of the team.
* Local is nothing but it is a hidden file internal local copy is a mediator of working and local copy.
* Repository/server copy is nothing but it consist main source code of project along with history.

1. What is repository?

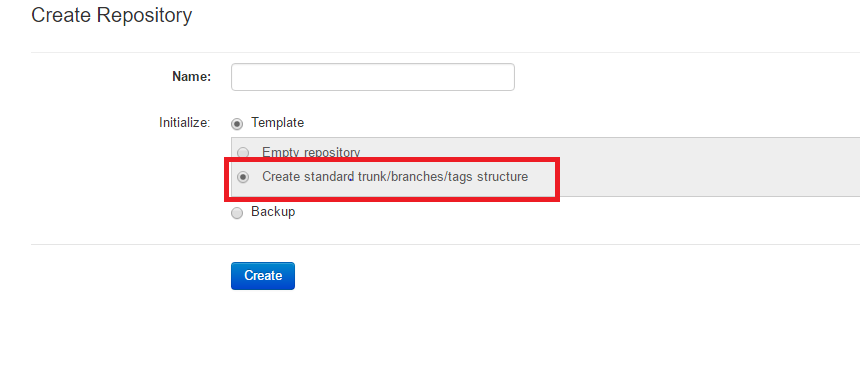
* Repository: A repository is the heart of any version control system. It is the central place where developers store all their work. Repository not only stores files but also the history. Repository is accessed over a network, acting as a server and version control tool acting as a client. Clients can connect to the repository, and then they can store/retrieve their changes to/from repository. By storing changes, a client makes these changes available to other people and by retrieving changes, a client takes other people’s changes as a working copy

1. What is trunk, branch and tag?

* Trunk: The trunk is a directory where all the main development happens and is usually checked out by developers to work on the project.
* Branches: Branch operation is used to create another line of development. It is useful when you want your development process to fork off into two different directions. For example, when you release version 5.0, you might want to create a branch so that development of 6.0 features can be kept separate from 5.0 bug-fixes.
* Tags: The tags directory is used to store named snapshots of the project. Tag operation allows to give descriptive and memorable names to specific version in the repository. For example, LAST\_STABLE\_CODE\_BEFORE\_EMAIL\_SUPPORT is more memorable than

1. How to create the branch, trunk and tags?

* When we creating a repository we have to select create standard trunk/branches/tags structure which shown in the below figure.

1. 
2. How to create the repository?

* Open browser--🡪type locahost:3343---->click on repositories----->click on create---->give the repo name-----🡪select create standard trunk/branches/tags structure--🡪create.

Or

* >svnadmin create <repository name>

1. What is the standard structure of the repository in current project you follow?

* Branch
* Tag
* trunk

1. What are the branching strategies?

* We have two types of branches

1. convention branching strategy.
2. Unstable or incremental code.
3. What are the different types of conflicts and how to resolve those conflicts?

* We have 3 types of conflicts.
* Superior conflicts.
* Structural conflicts.
* Tree conflicts.

1. Difference between svn info and log?

* **SVN LOG:**
* Revision
* User
* Date and time
* **SVN INFO:**
* Path
* Working copy root path
* URL
* Relative URL
* Repository Root
* Repository UUID
* Revision node kind
* Schedule
* Last changed author
* Last changed Rev.
* Last changed Date**.**

1. How to revert the changes after commit?

* After commit we can’t revert.

1. How to create the users?

* For first time user

>htpasswd -cm /etc/svn-users <name of the user>

* For second time onward

>htpasswd -m /etc/svn-users <name of the user>

1. How to lock the file?

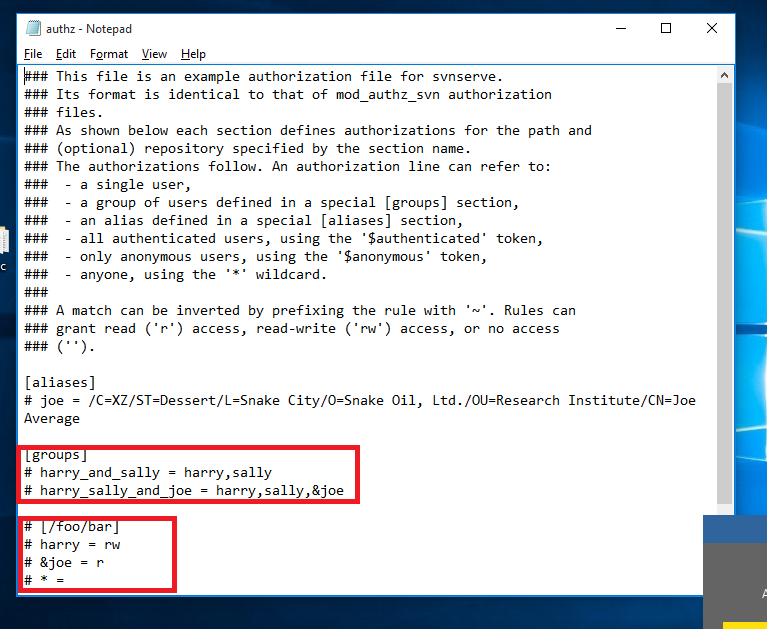
* >SVN lock file name

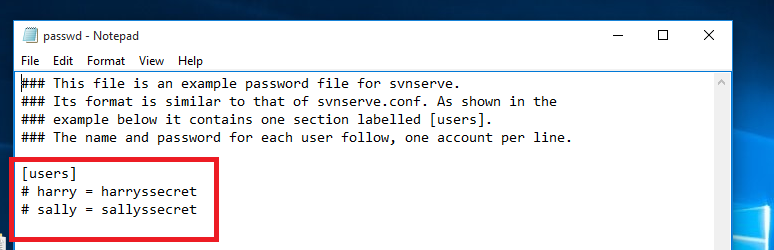
1. How to lock the tag, branch and trunk?

* Tag, branch and trunk can’t be lock.

1. How to give the access authenticated users and what are the permissions?

* Go to c drive--🡪csvn--->data--->repositories--🡪amazone(our repo)---> conf--->open authz and password files in notepad
* In the below screen we can see users in groups which is highlighted in red mark.
* And user harry has read and write permission.
* \*= represent no permission.
* In password file we need to add user names and passwords.
* Username=harry, Password = harryssecret
* Username sally,Password = sallyssecret





1. What are the different types of hooks and how to use?

* In SVN we have 2 types of conflicts they are:
* Pre commit hooks.
* Post commit hooks.
* Pre commit hooks: whenever we committing to any changes into repository without any commit message pre commit hooks doesn’t allow.
* Post commit hooks: after committing we need to send the confirmation mail to the respective team.

1. How to merge the code from one branch to another branch?

* >SVN merge <branch url>

1. How to take the dump?

* >Svnadmin dump /var/svn/Samsung.> .backup

1. How to check the history of revisions 200 to 500?

* >svn log –r 200:500

1. What is cherry picking?

* >svn merge –c(250) <url of branch>
* Pick aperticular revision and merge into the respective trunk.