SCM Hardware/Software Procurement

**Following are the core part of SCM**

Code storage

Code Review

Build infrastructure

Distribute (Deliverables)

Deploy

Following are the tools and their specification to fulfill above SCM core parts.

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| **Core Part** | **Supporting tools** | **SLA** | **Features** |
| Code storage | SVN | High Availability | Easy to maintain,  Easy to use |
| Code Review | Review Board | High availability during core business hours | Easy to use. Integrated with SVN, Post and pre commit review |
| Build Infrastructure | Jenkins | High availability during core business hours | Parallel Build, Timely response, Able to accommodate QA automation, |
| Distribute (Deliverables) | Nexus | High availability during core business hours | Can store any type of artifact, easy to maintain, Can support multiple inbuild and third party jars. User friendly (has web interface). |
| Deploy (To QA and QA Integration Env) |  |  |  |

# Requirement To SA team

## SVN

SVN is already up and running with mirror backup.

Code review tool - **Review Board**

**Installation guide -** <http://www.reviewboard.org/docs/manual/1.6/admin/installation/linux/>

Optional Package S3 support and PyLucene is needed for screenshot upload and enabling search.

**Hardware Requirement** (Recommended by RB tool).

Need a Linux box with 4 cores CPU, 6 GB memory

Out of 6 GB memory, 2 GB is for memcached.

Disk space 50 GB.

**Backup Plan** – Need to backup of the Mysql DB.

Build Infrastructure – **Jenkins**

**Hardware Requirement** –

Linux machine with 32 GB memory, 8 cores CPUs. (There should be option to increase the Number of CPUs further).

Disk space 150GB.

**Installation Guide** - Get the Jenkins war file from <http://jenkins-ci.org/> and place it in tomcat as container.

**Backup Plan** - Only Config needs to be backed up. Will let SA team know the config backup location.

Deployment Steps:-

Account: – We need to have “Jenkins:jenkins” account setup

Jenkins Deployment: - Get the Jenkins war file from <http://jenkins-ci.org/> and place it in tomcat as container.

Build essential setup: - Install build essential in one common location.

Setup sync to Slave machine:-

Distribute (Storing artifact) – **Nexus**

**Hardware Requirement** –

Linux VM with 4GB memory.

Disk space 150 GB

**Installation Guide** – Get the nexus war file from <http://www.sonatype.org/nexus/> and place it in tomcat as container.

**Backup Plan** – Maven repository needs to be backed up. Will let SA team know the location of repository.