**Sonaqube installation document:**

1. Installation of EPL release and system update

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| sudo yum -y install epel-release  sudo yum -y update  sudo shutdown -r now |

1. Installation of JAVA - 1.8

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| wget --no-cookies --no-check-certificate --header "Cookie:oraclelicense=accept-securebackup-cookie" "<http://download.oracle.com/otn-pub/java/jdk/8u131-b11/d54c1d3a095b4ff2b6607d096fa80163/jdk-8u131-linux-x64.rpm>"  sudo yum -y localinstall jdk-8u131-linux-x64.rpm  Check version : Java -version   |  | | --- | | java version "1.8.0\_131"  Java(TM) SE Runtime Environment (build 1.8.0\_131-b11)  Java HotSpot(TM) 64-Bit Server VM (build 25.131-b11, mixed mode) | |

1. Installation of PostgresSQL

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| sudo rpm -Uvh https://download.postgresql.org/pub/repos/yum/9.6/redhat/rhel-7-x86\_64/pgdg-centos96-9.6-3.noarch.rpm  sudo yum -y install postgresql96-server postgresql96-contrib  Initilize DB :  sudo /usr/pgsql-9.6/bin/postgresql96-setup initdb  Edit the /var/lib/pgsql/9.6/data/pg\_hba.conf to enable MD5-based authentication.  sudo nano /var/lib/pgsql/9.6/data/pg\_hba.conf  change peer to trust and idnet to md5  Start PostgreSQL and enable configuration changes  sudo systemctl start postgresql-9.6  sudo systemctl enable postgresql-9.6  Change the password for default Postgresql user  sudo passwd postgres  Switch to the postgres user.  su - postgres  Create a new user by typing:  createuser sonar  Set a password for the newly created user for SonarQube database.  psql  ALTER USER sonar WITH ENCRYPTED password 'StrongPassword';  CREATE DATABASE sonar OWNER sonar; |

1. Download and configuration of Sonarqube

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| wget https://binaries.sonarsource.com/Distribution/sonarqube/sonarqube-6.4.zip  sudo yum -y install unzip  sudo unzip sonarqube-6.4.zip -d /opt  sudo mv /opt/sonarqube-6.4 /opt/sonarqube  Configuration :   |  |  |  | | --- | --- | --- | | sudo vi /opt/sonarqube/conf/sonar.properties  Uncomment the following and provide the Postgreql username and password   |  | | --- | | sonar.jdbc.username=sonar  sonar.jdbc.password=StrongPassword |   Configuration of Systemd service   |  | | --- | | sudo vi /etc/systemd/system/sonar.service  [Unit]  Description=SonarQube service  After=syslog.target network.target  [Service]  Type=forking  ExecStart=/opt/sonarqube/bin/linux-x86-64/sonar.sh start  ExecStop=/opt/sonarqube/bin/linux-x86-64/sonar.sh stop  User=root  Group=root  Restart=always  [Install]  WantedBy=multi-user.target |   Start the sonar application :  sudo systemctl start sonar  sudo systemctl enable sonar  sudo systemctl status sonar |   Configuration of Reverse proxy :  sudo nano /etc/httpd/conf.d/sonar.yourdomain.com.conf   |  | | --- | | <VirtualHost \*:80>  ServerName sonar.yourdomain.com  ServerAdmin me@yourdomain.com  ProxyPreserveHost On  ProxyPass / http://localhost:9000/  ProxyPassReverse / http://localhost:9000/  TransferLog /var/log/httpd/sonar.yourdomain.com\_access.log  ErrorLog /var/log/httpd/sonar.yourdomain.com\_error.log  </VirtualHost> |   Start Apache and enable it to start automatically at boot time:  sudo systemctl start httpd  sudo systemctl enable httpd  Configuration of Firewall :  sudo yum install firewalld  sudo systemctl start firewalld  sudo systemctl enable firewalld  sudo systemctl status firewalld  Allow the required HTTP port through the system firewall.  sudo firewall-cmd --add-service=http --permanent  sudo firewall-cmd --reload  sudo systemctl start sonar  You will also need to disable SELinux:  sudo setenforce 0  Sonarqube URL : {IP}  Username : admin  Password : admin |