SonarQube Installation Upgrade SOP

1.Take a snapshot of atl-devsq1 server before

2.The migration path on https://docs.sonarqube.org/latest/setup/upgrading/ No LTS only latest versions we need to download on atl-devsq1.

3.Download the Latest version of SonarQube from here <https://binaries.sonarsource.com/Distribution/sonarqube/> Deverloper Edition on atl-devsq1 server.

4.Backup key files Key properties file located at (/opt/sonarqube/conf/sonar.properties ) so just copy this file in your home directories ~/

5. Before beginning upgrade compare sonar.properties file currently used version and the new version that was unzipped

6. Make sure the latest sonar.properties file from latest downloaded version, with settings we copied over, make it to the new sonarqube directory Following properties needs to be checked.

sonar.jdbc.username=sonarqube

sonar.jdbc.password=(see file)

sonar.jdbc.url=jdbc:postgresql://localhost/sonarqubedb

sonar.web.sso.enable=true

sonar.web.sso.loginHeader=X-Forwarded-Login

sonar.web.sso.nameHeader=X-Forwarded-Name

sonar.web.sso.emailHeader=X-Forwarded-Email

sonar.web.sso.groupsHeader=X-Forwarded-Groups

sonar.web.sso.refreshIntervalInMinutes=5

sonar.path.data=/var/sonarqube/data

sonar.path.temp=/var/sonarqube/temp

5. Make sure SonarQube service auto starts successfully

6. Go to https://devsq1.americanfirstfinance.com/setup, you will see the below. Click upgrade button It will complete within 30 seconds, then show

7. Then you can login with SAML again

8. NOTE: If you go directly to the main url right after the upgrade (and don’t add the /setup on the end of the url) ,

9 you will see this https://devsq1.americanfirstfinance.com after the upgrade so just cross verify.

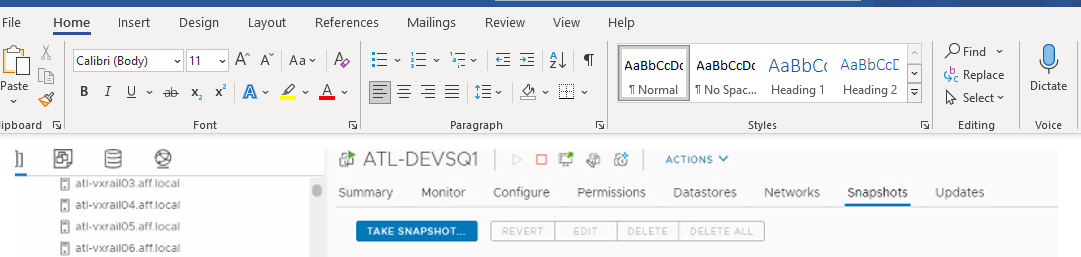
10. It is now safe to remove the old SonarQube version directory (example: /opt/sonarqube-8.5.1.38104

Detail Step given below with Snapshot.

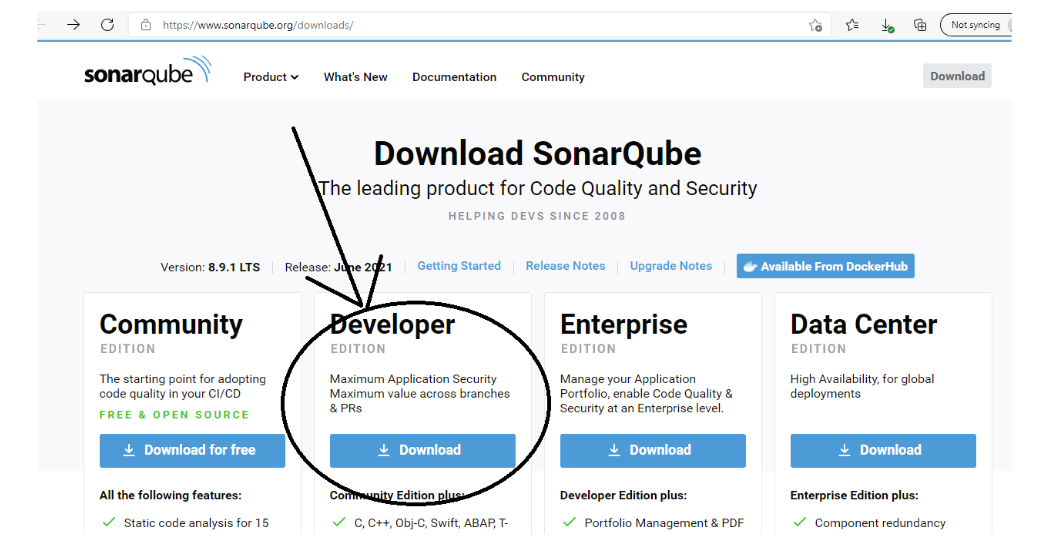
Upgrade SonarQube to latest version:

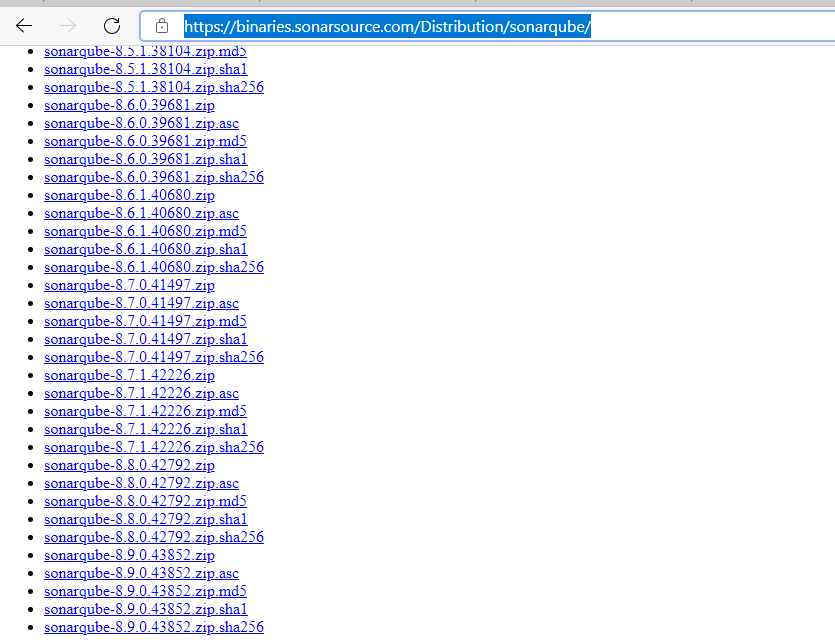
<https://docs.sonarqube.org/latest/setup/upgrading/>

<https://techtalkbook.com/upgrade-sonarqube-to-latest-version/>

1. Take a snapshot of atl-devsq1 server before starting 
2. Note the migration path on <https://docs.sonarqube.org/latest/setup/upgrading/> (we are not using LTS but latest versions)
3. Download the Latest version of SonarQube from here https://binaries.sonarsource.com/Distribution/sonarqube/ so example for version 8.7.1.42226:

https://binaries.sonarsource.com/CommercialDistribution/sonarqube-developer/sonarqube-developer-8.9.1.44547.zip

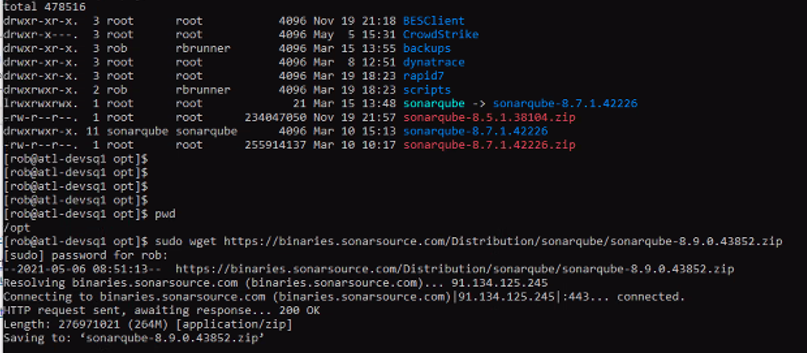




cd /opt

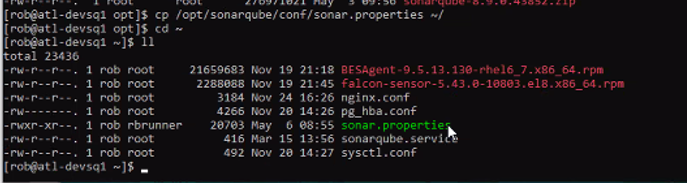
sudo wget https://binaries.sonarsource.com/Distribution/sonarqube/sonarqube-8.9.0.43852.zip

unzip sonarqube-8.7.1.42226



1. **backup key files:**

cp /opt/sonarqube/conf/sonar.properties ~/



1. Before beginning upgrade compare sonar.properties  file currently used version and the new version that was unzipped (notepad++ compare works great).
2. Copy over any configuration settings (don’t just copy the old file into the new location). Data of note that needed to be copied from old to new sonar.properties file:

sonar.jdbc.username=sonarqube

sonar.jdbc.password=(see file)

**sonar.jdbc.url=jdbc:postgresql://localhost/sonarqubedb**

sonar.web.sso.enable=true

sonar.web.sso.loginHeader=X-Forwarded-Login

sonar.web.sso.nameHeader=X-Forwarded-Name

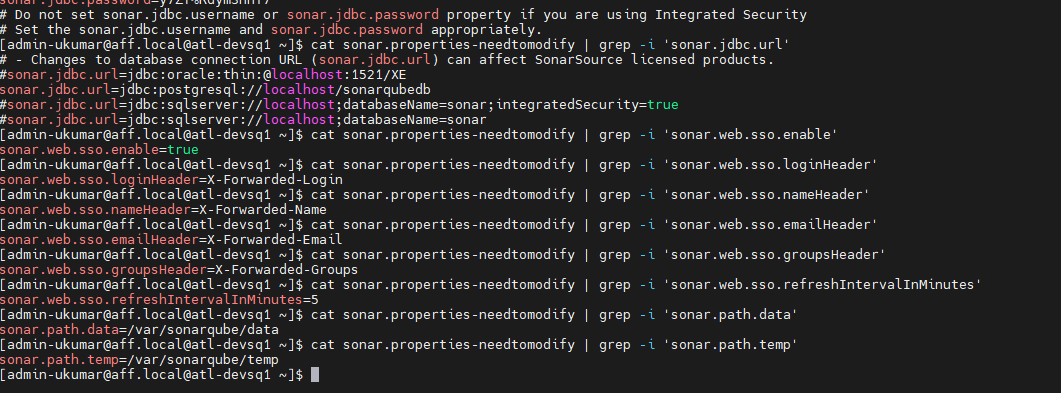
sonar.web.sso.emailHeader=X-Forwarded-Email

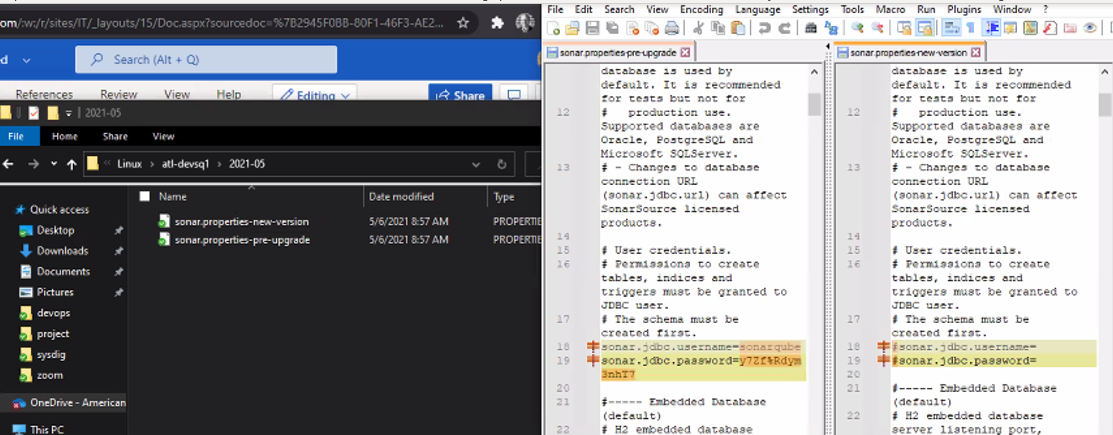
sonar.web.sso.groupsHeader=X-Forwarded-Groups

sonar.web.sso.refreshIntervalInMinutes=5

sonar.path.data=/var/sonarqube/data

sonar.path.temp=/var/sonarqube/temp



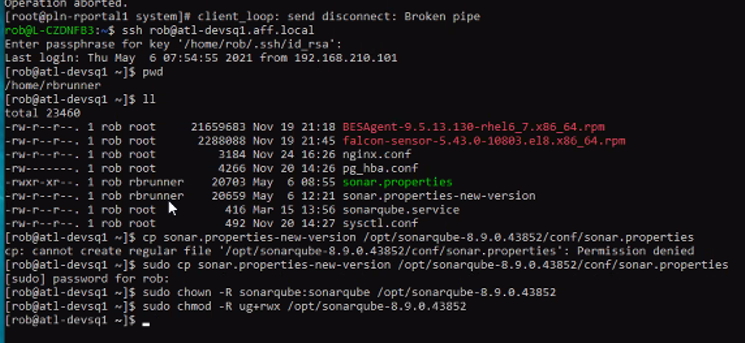


1. Make sure the latest sonar.properties file from latest downloaded version, with settings we copied over, make it to the new sonarqube directory. Example:

cp ~/sonar.properties-new /opt/sonarqube-8.7.1.42226/conf/sonar.properties

sudo chown -R sonarqube:sonarqube /opt/sonarqube-8.7.1.42226

sudo chmod -R ug+rwx /opt/sonarqube-8.7.1.42226



sudo systemctl stop sonarqube

1. Update sonarqube systemd service for new version:

sudo vim /etc/systemd/system/sonarqube.service

1. Update this line to be the latest sonarqube version we are upgrading to:

ExecStart=/bin/nohup java -Xms32m -Xmx32m -Djava.net.preferIPv4Stack=true -jar /opt/sonarqube/lib/sonar-application-8.7.1.42226.jar

1. Update the new /opt/sonarqube-8.7.1.42226/conf/sonar.properties config file (don’t just copy over the old file from the previous install to the new version):

1. set symlink to new sonarqube version:

sudo rm sonarqube

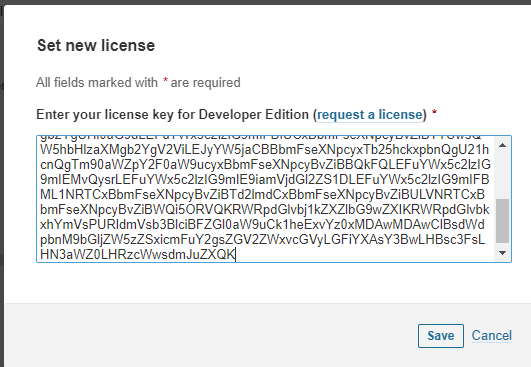
sudo ln -s sonarqube-8.7.1.42226 sonarqube

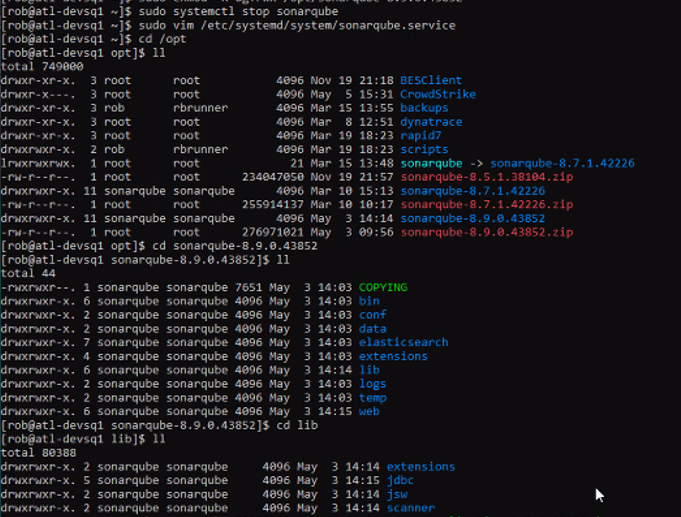
sudo chown -R sonarqube:sonarqube sonarqube

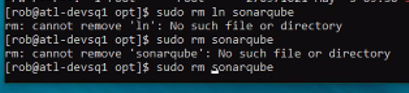
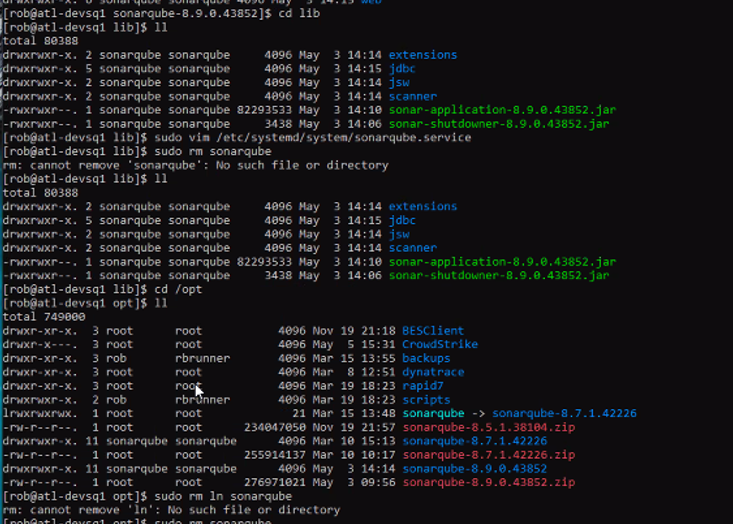
ls -lrt /var

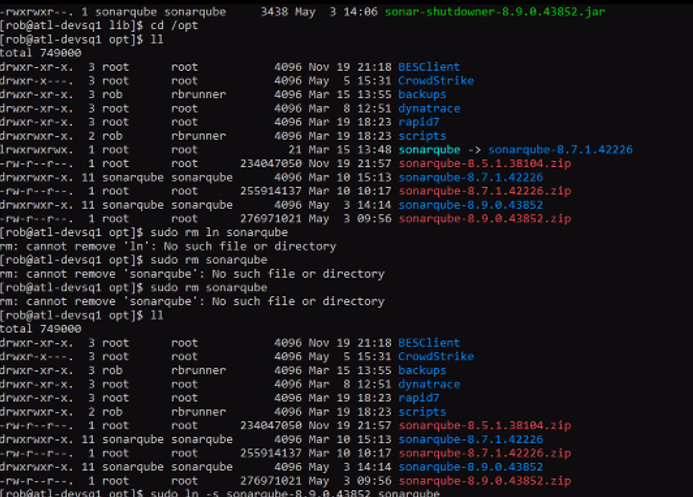
 sudo yum update

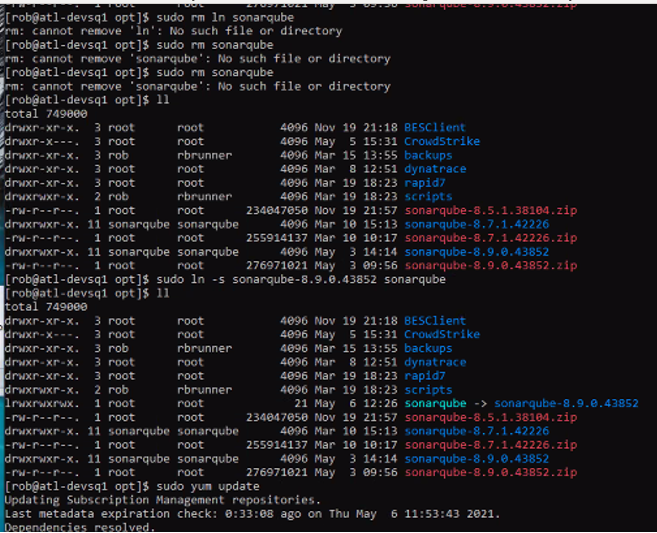
systemctl reboot

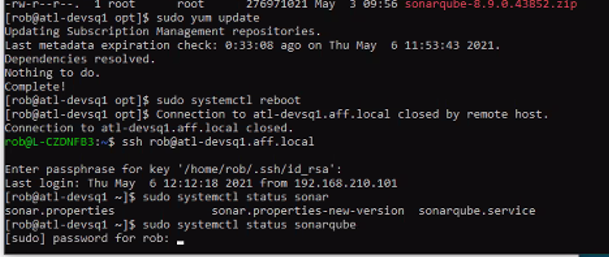
1. make sure SonarQube service auto starts successfully
2. Go to <https://devsq1.americanfirstfinance.com/setup>, you will see the below. Click upgrade button
3. • Current Developer Edition license key 2021 (After login --- Configuration, License Manager):
4. 
5. 

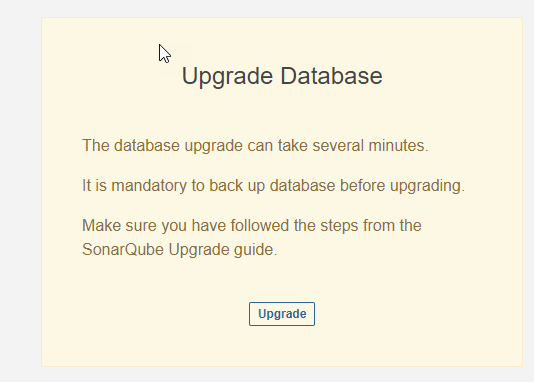




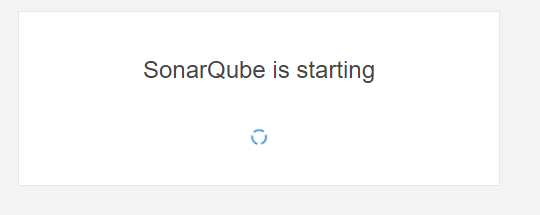




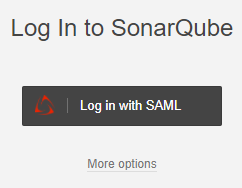




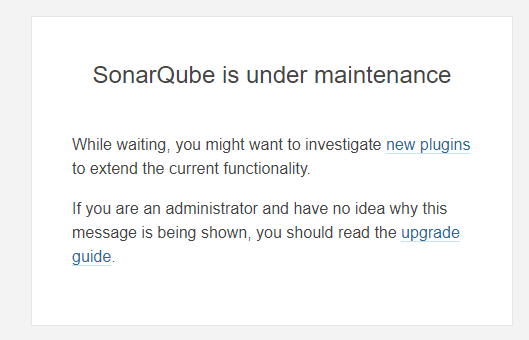
1. It will complete within 30 seconds, then show



1. Then you can login with SAML again

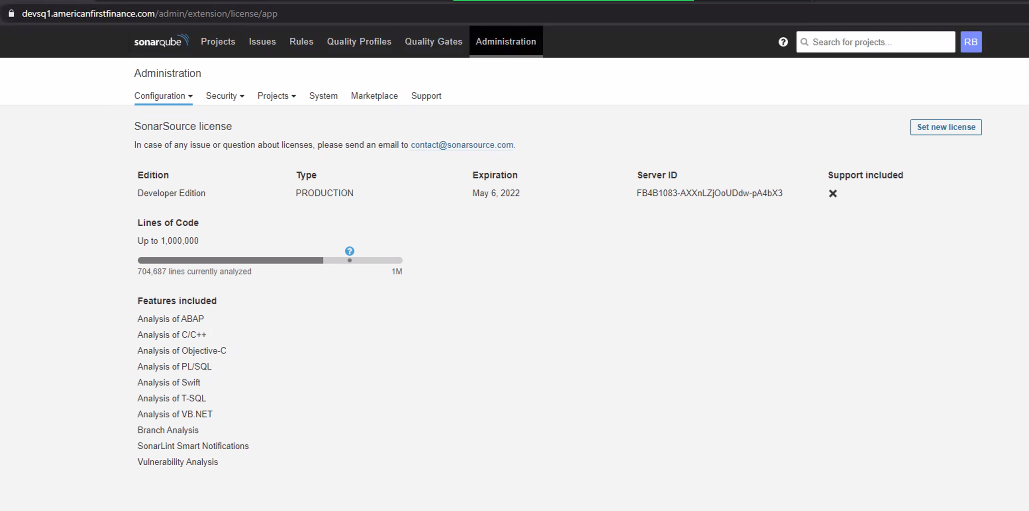


1. **NOTE**: If you go directly to the main url right after the upgrade (and don’t add the /setup on the end of the url) , you will see this [https://devsq1.americanfirstfinance.com](https://devsq1.americanfirstfinance.com/) after the upgrade:



1. It is now safe to remove the old SonarQube version directory (example: /opt/sonarqube-8.5.1.38104

 Check and verify after login portal



atl-devsq1.aff.local Sonarqube server

**Ansible playbooks to spin up server:**

ansible-playbook -i vms-to-deploy deploy-vsphere-vms.yml

*ssh-agent*

*exec ssh-agent bash*

*ssh-add ~/.ssh/id\_rsa*

1. add server name to windows dns server
2. if have issue with running playbooks for installs/updates:

*ansible-playbook add-user-ssh.yml -i atl-devsq1****.aff.local****, -k -K*

hostnamectl

sudo mv /etc/machine-id /etc/machine-id.oldid

sudo systemd-machine-id-setup

sudo subscription-manager register --force

sudo systemctl reboot

ansible-playbook update\_local\_usernames.yml -i atl-devsq1.aff.local, -K -k

root pwd

Reset subscription manager service on server going to deploy to:       *sudo subscription-manager register --force*

*ansible-playbook bigfix\_rhel.yml -i atl-devsq1****.aff.local****,**-K*

*ansible-playbook olawale\_add\_user\_pwd\_and\_ssh\_key.yml -i atl-devsq1****.aff.local****,**-K*

*ansible-playbook set-new-created-users-password-expire-90.yml -i atl-devsq1****.aff.local,****-K*

*ansible-playbook sonarqube-server-base\_rhel8.yml -i****atl-****devsq1****.aff.local,****-K -v*

*ansible-playbook rhel8\_dns\_domain\_atl\_set\_rhel\_ifcfg.yml -i atl-devsq1****.aff.local,****-K*

*~~ansible-playbook install\_composer.yml -i~~****~~pln-cdn1.aff.local~~****~~,~~**~~-K~~*

*~~ansible-playbook rhel8\_loggly\_nginx\_local\_solarwinds.yml -i atl-nexus1~~****~~.aff.local,~~****~~-K~~*

ansible-playbook nginx\_inserts\_proxylog\_loggly.*yml -i atl-devsq1****.aff.local****,**-K*

*~~ansible-playbook cp\_uat\_rhel8\_appoptics\_nginx\_php\_plugins.yml -i atl-nexus1~~****~~.aff.local,~~****~~-K~~*

ansible-playbook nginx\_add\_log\_fwd\_atl\_et.yml *-i atl-devsq1****.aff.local****,**-K*

*~~ansible-playbook demo8dp\_rhel8\_appoptics\_nginx\_php\_plugins.yml -i~~****~~pln-cdn1.aff.local,~~****~~-K~~*

*ansible-playbook event\_tracker\_atl\_blockinfile\_nginx\_rhel8\_w\_selinux\_fix.yml -i atl-devsq1****.aff.local,****-K*

*ansible-playbook*selinux\_fix\_nginx\_start\_after\_rhel8\_updates.yml *-i atl-devsq1****.aff.local,****-K*

*ansible-playbook*add\_rhel8\_to\_AD\_linux-web-dev\_linux-admin-infra.yml *-i atl-devsq1****.aff.local,****-K*

*ansible-playbook rhel8\_fail2ban.yml -i atl-devsq1****.aff.local,****-K*

*~~ansible-playbook add\_webrpt\_user\_ssh\_var-log\_ow.yml -i~~****~~pln-cdn1.aff.local,~~****~~-K~~*

*ansible-playbook logs\_min\_90\_days.yml -i atl-devsq1****.aff.local,****-K*

*ansible-playbook rhel8\_nginx\_show\_realip\_error\_log.yml -i atl-devsq1.aff.local, -K*

*ansible-playbook ssh\_config\_update\_linux-web-dev\_linux-admin-infra.yml -i atl-devsq1****.aff.local,****-K*

*ansible-playbook sshd\_key\_exchange\_algorithms\_settings\_rhel8.yml -i atl-devsq1****.aff.local,****-K*

*~~ansible-playbook nginx\_modsec\_rule\_949110\_disable.yml -i atl-nexus1.aff.local, -K~~*

8/10/2020: DISABLE MODSEC ON SERVERS EXCEPT DEVAPI FOR NOW

*ALL OTHER SERVERS:   ansible-playbook nginx\_modsec\_rule\_949110\_disable.yml -i atl-devsq1.aff.local, -K*

Reboot server so kernel updates take effect

Now that ansible playbooks have ran, configure the server using following steps:

1. You can verify the postgresql installation using the following version select query.

sudo -u postgres /usr/bin/psql -c "SELECT version();"

user: postgres    8caj!rXCd9Tpfq

create user sonarqube with encrypted password 'y7Zf%Rdym3nhT7';

<https://docs.sonarqube.org/latest/requirements/requirements/>

<https://docs.sonarqube.org/7.2/SecuringtheServerBehindaProxy.html>

<https://www.sonarqube.org/downloads/>

<https://docs.sonarqube.org/latest/requirements/hardware-recommendations/>

<https://docs.sonarqube.org/latest/setup/install-server/>

<https://devopscube.com/setup-and-configure-sonarqube-on-linux/>

*$SONARQUBE-HOME =*/opt/sonarqube

* service account:

sonarqube

Wxxxx@8xxx!

<https://www.c-sharpcorner.com/article/step-by-step-sonarqube-setup-and-run-sonarqube-scanner/>

<https://docs.sonarqube.org/latest/setup/install-server/>

<https://devopscube.com/setup-and-configure-sonarqube-on-linux/>

sysctl vm.max\_map\_count

sysctl fs.file-max

ulimit -n

ulimit -u

sudo /usr/bin/postgresql-setup –initdb

\* Initializing database in '/var/lib/pgsql/data'

 \* Initialized, logs are in /var/lib/pgsql/initdb\_postgresql.log

sudo vim /var/lib/pgsql/data/pg\_hba.conf

1. Find the lines at the bottom and update peer to trust and idnet to md5, see below:

# "local" is for Unix domain socket connections only

local   all             all                                     trust

# IPv4 local connections:

host    all             all             127.0.0.1/32            md5

# IPv6 local connections:

host    all             all             ::1/128                 md5

systemctl start postgresql

systemctl enable postgresql

systemctl status postgresql

1. You can verify the installation using the following version select query.

sudo -u postgres /usr/bin/psql -c "SELECT version();"

**Setup Sonar User and Database**

We need to have a sonar user and database for the sonar application.

1. Change the default password of the Postgres user. All Postgres commands have to be executed from this user

sudo passwd postgres

8caj!rXCd9Tpfq

1. Step 2: Login as postgres user with the new password.

su - postgres

1. Login to the PostgreSQL CLI.

psql

1. Create a sonarqubedb database.

create database sonarqubedb;

1. Create the sonarqube DB user with a strongly encrypted password. Replace your-strong-password with a strong password.
2. Eg: create user sonarqube with encrypted password 'your-strong-password';

create user sonarqube with encrypted password 'y7Zf%Rdym3nhT7';

1. Next, grant all privileges to sonrqube user on sonarqubedb.

grant all privileges on database sonarqubedb to sonarqube

1. create user that can backup the postresql database as we will setup backup rotation for later:

create user rob with encrypted password 'EnterPasswordHere';

1. Next, grant all privileges to rob user on sonarqubedb.

grant all privileges on database sonarqubedb to rob

1. List the database privileges using psql

\l

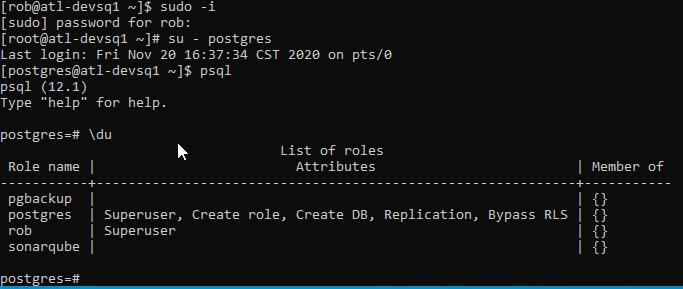
\du

\du+

alter user rob with superuser;

\du

1. Now you can see rob is a member of superuser:



1. Now add .pgpass to my /home/rbrunner directory

#hostname:port:database:username:password

localhost:5432:\*:rob:PasswordHere

1. Now when you run pg\_dump command below you don’t have to provide your postgrest password for user rob as its in the .pgass file. If you don’t add postgres user rob to the correct postgres group, like superuser we did above, then the .pgpass file won’t work anyway

pg\_dump -U rob -h localhost -p 5432 -d sonarqubedb > "/opt/backups/wp/sonarqubedb\_`date +%d-%m-%Y"\_"%H\_%M\_%S`.sql"

1. As user rob (or the user that has the .pgpass file in their home directory and matching database username?):

crontab -e

5 \*/12 \* \* \* /opt/backups/postgresdump-sq.sh

1. Exit the psql prompt using the following command.

\q

1. Switch to your sudo user using the exit command.

exit

cd /opt

unzip sonarqube-8.5.1.38104

sudo ln -s sonarqube-8.5.1.38104 sonarqube

1. now you can reference /opt/sonarqube for the latest version of sonarqube installed, then when need to upgrade later just update this symlink

sudo mkdir /var/sonarqube

sudo usermod -aG sonarqube rob

vim /opt/sonarqube/conf/sonar.properties

1. uncomment / make sure these values set on these lines for web and using PostgreSQL

sonar.jdbc.username=sonarqube

sonar.jdbc.password=y7Zf%Rdym3nhT7

sonar.jdbc.url=jdbc:postgresql://localhost/sonarqubedb

1. left these two lines below for web.host and web.port commented out as we will use the defaults so no need to specify these:

#sonar.web.host=127.0.0.1

#sonar.web.port=9000

1. uncomment these lines for the Elasticsearch storage path and set to this location (will make upgrades easier for this to be in separate var dir):

sonar.path.data=/var/sonarqube/data

sonar.path.temp=/var/sonarqube/temp

sudo chown -R sonarqube:sonarqube /opt/sonarqube

sudo chown -R sonarqube:sonarqube /opt/sonarqube-8.5.1.38104

sudo chown -R sonarqube:sonarqube /var/sonarqube

sudo chmod -R ug+rwx /opt/sonarqube

sudo chmod -R ug+rwx /var/sonarqube

1. set sonarqube to start as systemd service:

sudo vim /etc/systemd/system/sonarqube.service

[Unit]

Description=SonarQube service

After=syslog.target network.target

[Service]

Type=simple

User=sonarqube

Group=sonarqube

PermissionsStartOnly=true

ExecStart=/bin/nohup java -Xms32m -Xmx32m -Djava.net.preferIPv4Stack=true -jar /opt/sonarqube/lib/sonar-application-8.5.1.38104.jar

StandardOutput=syslog

LimitNOFILE=131072

LimitNPROC=8192

TimeoutStartSec=8

Restart=on-failure

[Install]

WantedBy=multi-user.target

* Because the sonar-application jar name ends with the version of SonarQube, you will need to adjust the ExecStart command accordingly on install and at each upgrade.

sudo systemctl enable sonarqube

sudo vim /etc/sysctl.conf

1. add these to the end of the file (this is important or the sonarqube service will not stay running):

vm.max\_map\_count=524288

fs.file-max=131072

systemctl reboot

1. make sure sonarqube service auto starts successfully

1. To start the sonarqube service to test / server:
2. Make sure /etc/nginx/nginx.conf is updated:

su - sonarqube

/opt/sonarqube/bin/linux-x86-64/sonar.sh start

1. If you receive an error like this:

Starting SonarQube...

Failed to start SonarQube.

1. All the logs of sonarqube are present in the /opt/sonarqube/logs directory.

cd /opt/sonarqube/logs

<https://linoxide.com/linux-how-to/install-sonarqube-ubuntu-16-04-ngnix/>

1. You can now login to <https://devsq1.americanfirstfinance.com/>
2. Log in as admin admin and change the password

hrgMAF8vAT\*79d

1. Go to Administration, Configuration, Security and enable **Force user authentication**

TROUBLESHOOTING:

**TOP ITEMS WERE:**

1. Check sonarqube service is running
2. make sure entries are in the /etc/sysctl.conf
3. reapply permissions to /opt/sonarqube-8.5.1.38104 directory for sonarqube:sonarqube -R

<https://docs.sonarqube.org/latest/setup/troubleshooting/>

<https://community.sonarsource.com/t/waiting-for-elasticsearch-to-be-up-and-running/16848>

sudo systemctl status sonarqube

Process[es] is stopped

Waiting for Elasticsearch to be up and running

SonarQube is stopped

netstat -nap |grep :::9000

1. can see:

tcp6       0      0 :::9000                 :::\*                    LISTEN      1917/java

1. so sonarqube is running and listening on port 9000

1. reapply permissions:

sudo chown -R sonarqube:sonarqube /opt/sonarqube

sudo chown -R sonarqube:sonarqube /opt/sonarqube-8.5.1.38104

sudo chown -R sonarqube:sonarqube /var/sonarqube

curl <http://127.0.0.1/9000>

1. can see a response!
2. Now, you should be able to access sonarqube on the browser on port 9000

Step 4: Check the application status. If it is in running state, you can access the sonarqube dashboard using the DNS name or Ip address of your server.

sudo ./sonar.sh status

11/24/2020 Troubleshooting ldap:

/opt/sonarqube/logs

cat web.log |grep LdapContext

2020.11.24 14:48:55 INFO  web[][o.s.a.l.LdapContextFactory] Test LDAP connection on ldap://aff.local: OK

tail -n 500 ce.log

cat ce.log |grep postgre

2020.11.24 15:28:25 INFO  ce[][o.sonar.db.Database] Create JDBC data source for jdbc:postgresql://localhost/sonarqubedb

access.log

127.0.0.1 - - [24/Nov/2020:15:53:08 -0600] "POST /api/authentication/login HTTP/1.0" 401 - "https://devsq1.americanfirstfinance.com/sessions/new?return\_to=%2F" "Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/87.0.4280.66 Safari/537.36" "AXX8Obm+faCfjnHeAABf"

**Setup SAML:**

vim nginx.conf

    server {

        listen 443 ssl;

        listen [::]:443 default\_server;

        server\_name devsq1.americanfirstfinance.com;

        ssl\_certificate /etc/nginx/ssl/AFF\_v2.pem;

        ssl\_certificate\_key /etc/nginx/ssl/aff\_wildcard\_v2.key;

        ssl\_session\_cache shared:SSL:20m;

        ssl\_session\_timeout 4h;

        ssl\_session\_tickets off;

        ssl\_protocols       TLSv1.2 TLSv1.3;

        # Enable modern TLS cipher suites

        ssl\_ciphers ECDHE-ECDSA-AES128-GCM-SHA256:ECDHE-RSA-AES128-GCM-SHA256:ECDHE-ECDSA-AES256-GCM-SHA384:ECDHE-RSA-AES256-GCM-SHA384:ECDHE-ECDSA-CHACHA20-POLY1305:ECDHE-RSA-CHACHA20-POLY1305:DHE-RSA-AES128-GCM-SHA256:DHE-RSA-AES256-GCM-SHA384;

        ssl\_prefer\_server\_ciphers on;

 ## Proxy settings

        location / {

            client\_max\_body\_size 100m;

            proxy\_http\_version  1.1;

            proxy\_cache\_bypass  $http\_upgrade;

            proxy\_set\_header Upgrade             $http\_upgrade;

            proxy\_set\_header Connection          "upgrade";

            proxy\_set\_header Host                $host;

            proxy\_set\_header X-Real-IP           $remote\_addr;

            proxy\_set\_header X-Forwarded-For     $proxy\_add\_x\_forwarded\_for;

            proxy\_set\_header X-Forwarded-Proto   https;

            proxy\_set\_header X-Forwarded-Host    $host;

            proxy\_set\_header X-Forwarded-Port    $server\_port;

            proxy\_pass http://localhost:9000;

        }

vim /opt/sonarqube/conf/sonar.properties

1. make sure these are uncommented and look like this in this section:

# SSO AUTHENTICATION

sonar.web.sso.enable=true

sonar.web.sso.loginHeader=X-Forwarded-Login

sonar.web.sso.nameHeader=X-Forwarded-Name

sonar.web.sso.emailHeader=X-Forwarded-Email

sonar.web.sso.groupsHeader=X-Forwarded-Groups

sonar.web.sso.refreshIntervalInMinutes=5

1. log into sonarqube with local user then:
2. administration, configuration, general, server base url:  https://devsq1.americanfirstfinance.com
3. Administration, configuration, security, enable saml

Application ID: [https://devsq1.americanfirstfinance.com](https://devsq1.americanfirstfinance.com/)

Provider Name: SAML

Provider ID: <https://sts.windows.net/33eba38a-7e84-48b7-8442-260eb1167e50/>

SAML login url: <https://login.microsoftonline.com/33eba38a-7e84-48b7-8442-260eb1167e50/saml2>

Provider certificate:

-----BEGIN CERTIFICATE----- MIIC8DCCAdigAwIBAgIQIWuEYHuftolC9u5CuXD4kDANBgkqhkiG9w0BAQsFADA0MTIwMAYDVQQD EylNaWNyb3NvZnQgQXp1cmUgRmVkZXJhdGVkIFNTTyBDZXJ0aWZpY2F0ZTAeFw0yMDExMjMxOTU3 MTRaFw0yMzExMjMxOTU3MTRaMDQxMjAwBgNVBAMTKU1pY3Jvc29mdCBBenVyZSBGZWRlcmF0ZWQg U1NPIENlcnRpZmljYXRlMIIBIjANBgkqhkiG9w0BAQEFAAOCAQ8AMIIBCgKCAQEAyi7iZnB9lNOw SjT6OLnIIvNdIokY4ggFR8YsuiJ6uFu2OKDcR6TFLm3L5+bmdNJEIxKuIVMP4I8PTJpeyDOK6qXa CY7fyc6cSpDYHxmcJSNskM2UzBgKeWlYNkNVeLbyG8duphfOanUt4LvKvFbWGnAd/hroytejqB5C Jp52YAS3VCDELoyGypdRXzGyxadgvMYGSZCYXfOUoNH0m1lV0uQjTtp5LXulwx0eb5hRk70R2q3H D2WyCizaOBfus8vI/Ky14Or5BVvTOeRjx7rnjTtPgEajo57Z6CzF2glp172KL8c1TN1vxx52DOXH 2JvSInDBl377GmXIqf/NxH5MDQIDAQABMA0GCSqGSIb3DQEBCwUAA4IBAQC8Mf+JpcvJnzIlVCkM lrMKnGGV42WclFNGiuPBvNCGeCLPWuSwhY2LKPfYSToPK4VuVdT6PS4E3zgn18+kC0zS6gjJG3sl RkyO3XjSVRlazo6ve+vPsoMTflFzRb1WzIhIWxBbcVOPiWVQ38qvlMsTTwu62aM//0PsHkTYs61H FgkU/aCVu9M11hzP3B5/PS0JEr86NMec9ZGQO8OmMTCwlAbddMRl6oOno83Hl0rYoZtM43Q5f5Xp aqKZKv2M6l3I/CXomI9fXTxtITRfYb7lhAs84sMjj8Po2WkYfqnORAjiKSaHFOl74ekhooQS9zUw Uv4wi4f9rc9TwHY/7935 -----END CERTIFICATE-----

SAML user login attribute: <http://schemas.xmlsoap.org/ws/2005/05/identity/claims/name>

SAML user name attribute: <http://schemas.xmlsoap.org/ws/2005/05/identity/claims/disaplayname>

SAML user email attribute: <http://schemas.xmlsoap.org/ws/2005/05/identity/claims/emailaddress>

~~SAML group attribute:~~[~~http://schemas.microsoft.com/ws/2008/06/identity/claims/groups~~](http://schemas.microsoft.com/ws/2008/06/identity/claims/groups)

SAML group attribute:

* Leave SAML group attribute blank and that will allow the group mapping to stay when you add someone to a group on sonarqube. **If you don’t leave this blank that means Group Mapping is enabled and users will be kicked out of local SonarQube groups when externally authenticated users login and groups are resynced.**

<https://community.sonarsource.com/t/lose-permissions-to-groups/23805/2>

To backup postgresql database

1. Copy the \shell bash python scripts and cron\atl-devsq1-postgres\backups directory to the server
2. Move to the /opt directory so you now have:

/opt/backups

sudo chmod ug+x postgresdump-sq.sh

chmod 0600 ~/.pgpass

Eg: pg\_dump dbname > dumpfile

sudo pg\_dump -U rpdbuser reportportal > /opt/reportportal20200516.sql

1. first password will be your user to sudo
2. second password will be to connect to reportportal database as rpdbuser

Add users to log into Sonarqube devsq1.americanfirstfinace.com via SAML

1. Log into AAD with your azadmin account: [https://aad.portal.azure.com/#blade/Microsoft\_AAD\_IAM/GroupDetailsMenuBlade/Overview/groupId/4df70bfe-a2e3-45d2-8377-a492d2a357e5](https://nam02.safelinks.protection.outlook.com/?url=https%3A%2F%2Faad.portal.azure.com%2F%23blade%2FMicrosoft_AAD_IAM%2FGroupDetailsMenuBlade%2FOverview%2FgroupId%2F4df70bfe-a2e3-45d2-8377-a492d2a357e5&data=04%7C01%7Crbrunner%40americanfirstfinance.com%7Cc3b465f1348d4c85bdd708d895402813%7C33eba38a7e8448b78442260eb1167e50%7C0%7C0%7C637423450067234178%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C1000&sdata=LXHYMseCgaqSGXSZXWVdIYHA0mC93XgN%2F2rwZ4h%2FB8w%3D&reserved=0)
2. Select “**Members**”
3. Click “**Add Members**”
4. **Search** for new members **assign**  and **save**.
5. Users do not need to be pre-added into devsq1.americanfirstfinance.com server as when they login via SAML the first time it will auto add them
6. If user needs to be an admin, login as yourself (who should already be an admin) then go to Administration, Security, Users, click Groups, All, click sonar-administrators