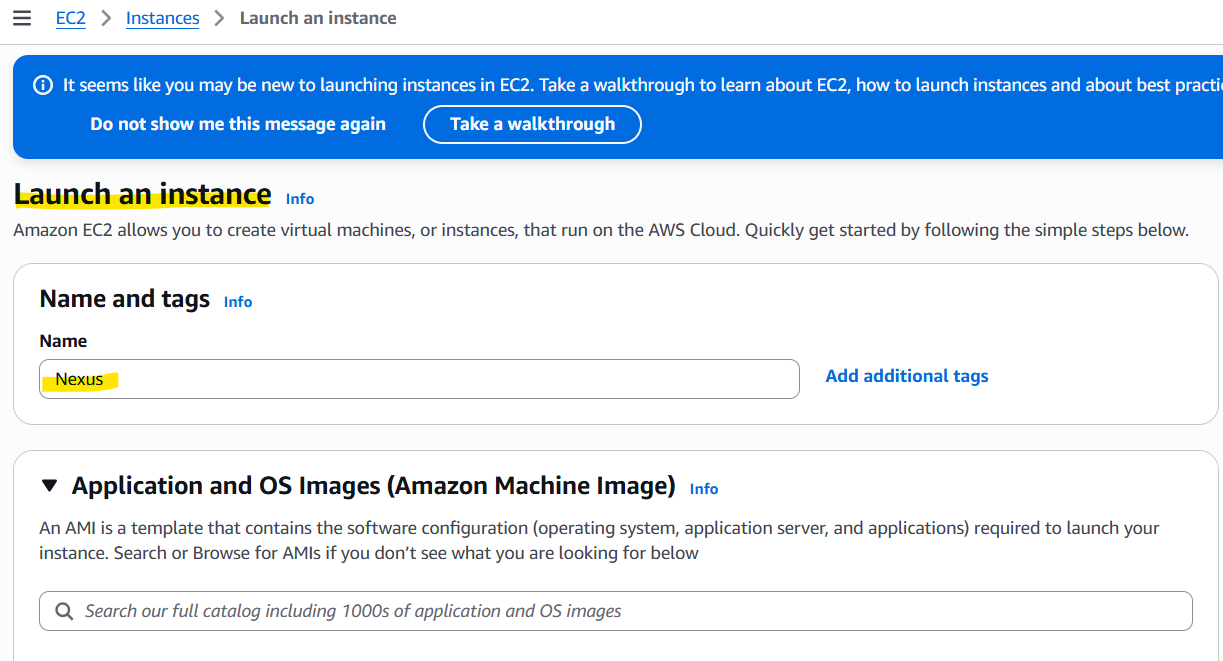
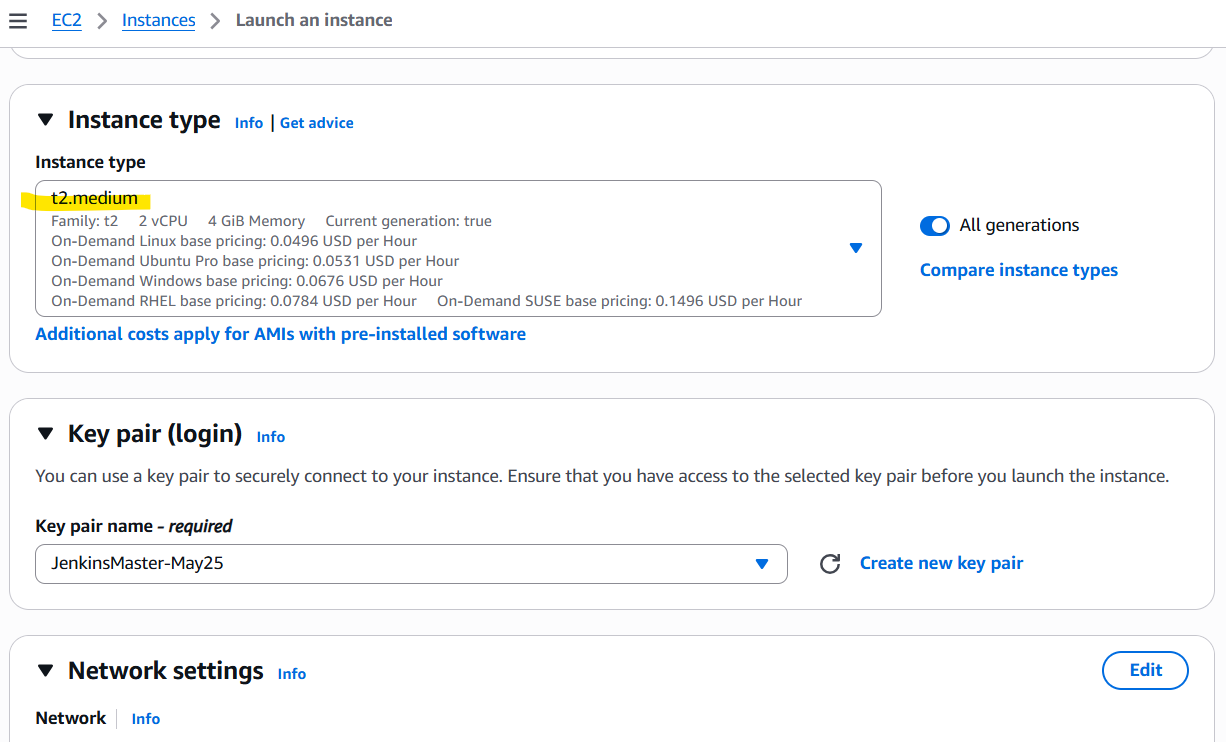
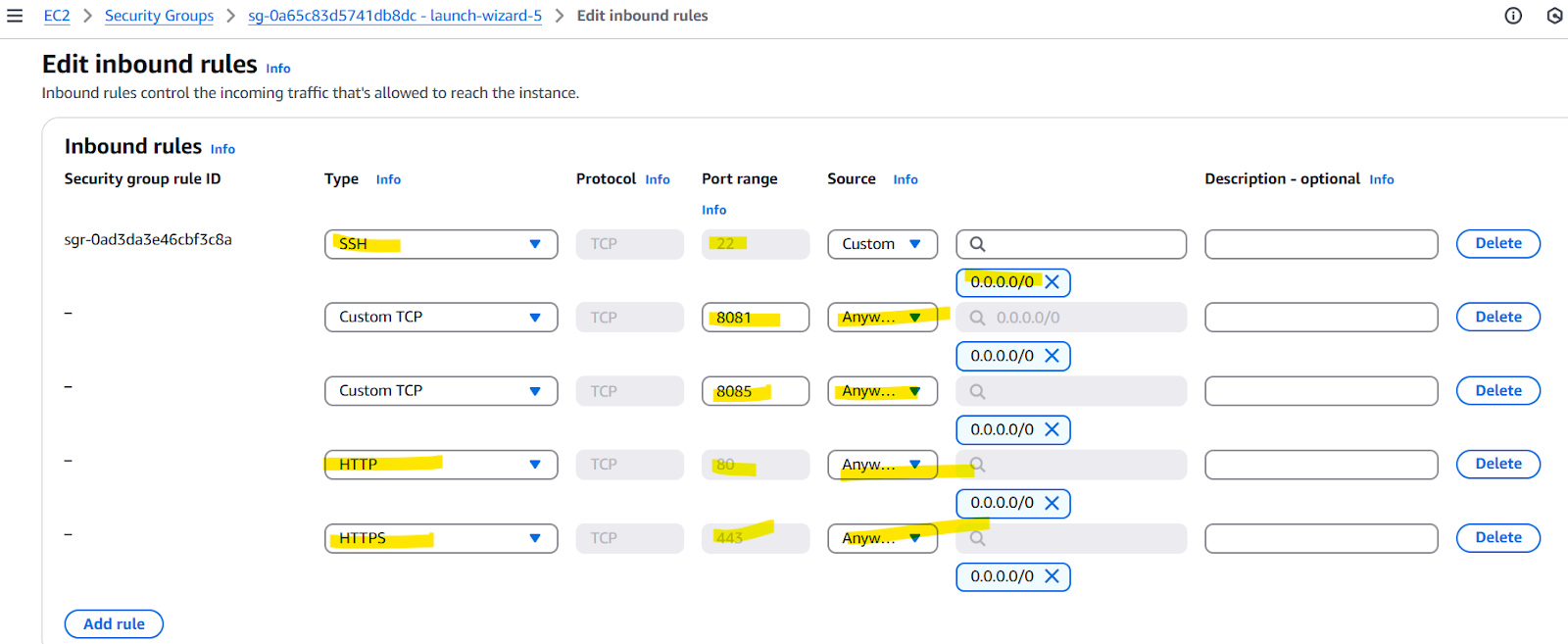
**DevOps Day 14 - 31st May 2025**



**Nexus needs 4 GB RAM - use t2.medium**



**Modify security group - inbound rules**



**Login to instance using putty**

$ sudo su -

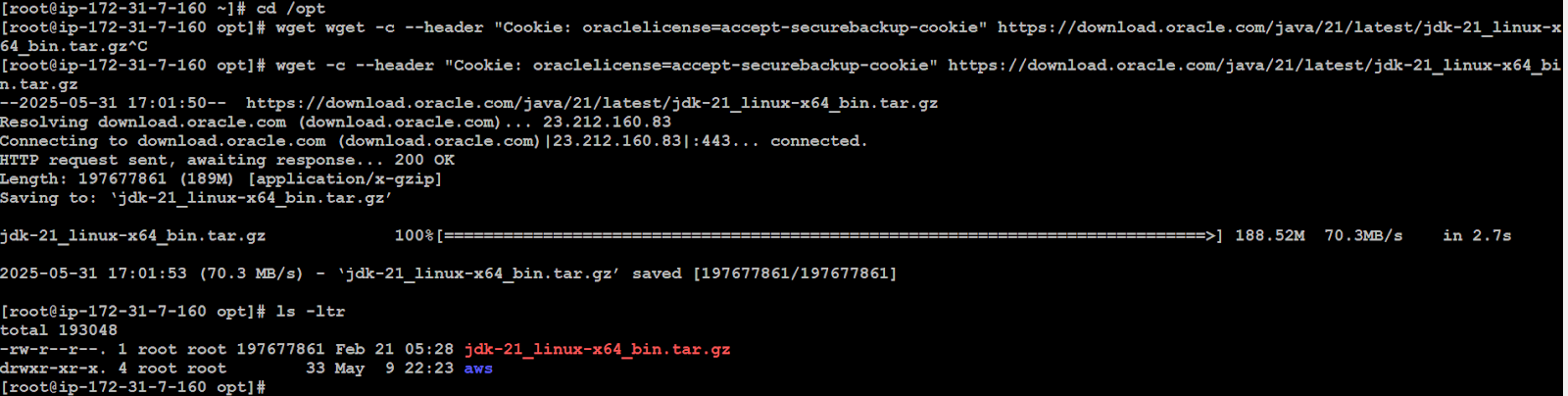
**Switch to /opt folder**

> cd /opt

**Download java 21 compress file for linux**

> wget -c --header "Cookie: oraclelicense=accept-securebackup-cookie" <https://download.oracle.com/java/21/latest/jdk-21_linux-x64_bin.tar.gz>

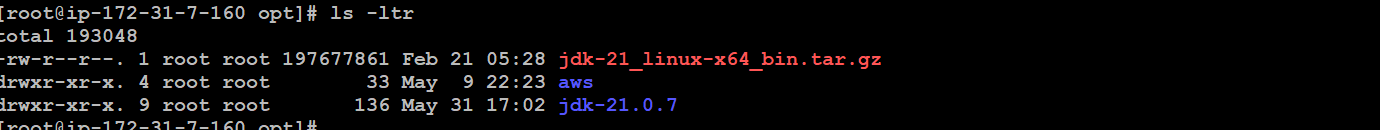
>ls -ltr



Unzip the tar file

>tar -zxvf jdk-21\_linux-x64\_bin.tar.gz

>ls -ltr



>cd jdk-21.0.7/

>pwd

/opt/jdk-21.0.7

>cd bin

>alternatives --install /usr/bin/java java /opt/jdk-21.0.7/bin/java 2

>alternatives --config java

>alternatives --install /usr/bin/jar jar /opt/jdk-21.0.7/bin/jar 2

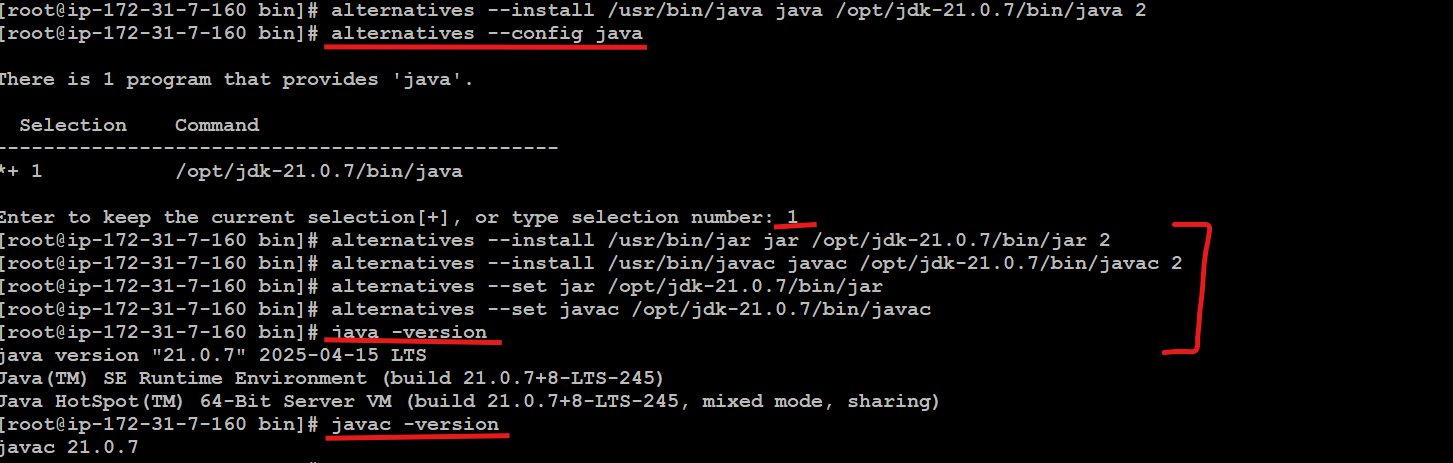
>alternatives --install /usr/bin/javac javac /opt/jdk-21.0.7/bin/javac 2

>alternatives --set jar /opt/jdk-21.0.7/bin/jar

>alternatives --set javac /opt/jdk-21.0.7/bin/javac

>java -version

>javac -version



>cd

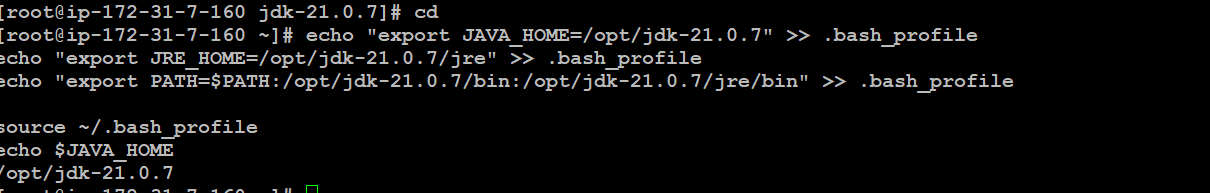
>echo "export JAVA\_HOME=/opt/jdk-21.0.7" >> .bash\_profile

>echo "export JRE\_HOME=/opt/jdk-21.0.7/jre" >> .bash\_profile

>echo "export PATH=$PATH:/opt/jdk-21.0.7/bin:/opt/jdk-21.0.7/jre/bin" >> .bash\_profile

>source ~/.bash\_profile

>echo $JAVA\_HOME



**Download nexus, extract it and rename**

>cd /opt

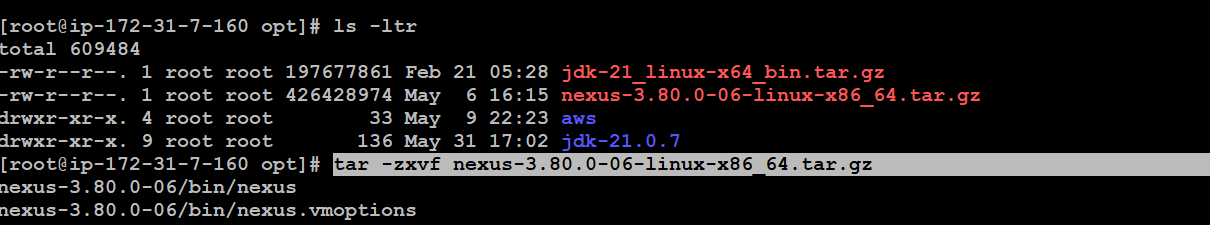
**Download nexus**

>wget <https://download.sonatype.com/nexus/3/nexus-3.80.0-06-linux-x86_64.tar.gz>

**Extract it**

>ls -ltr

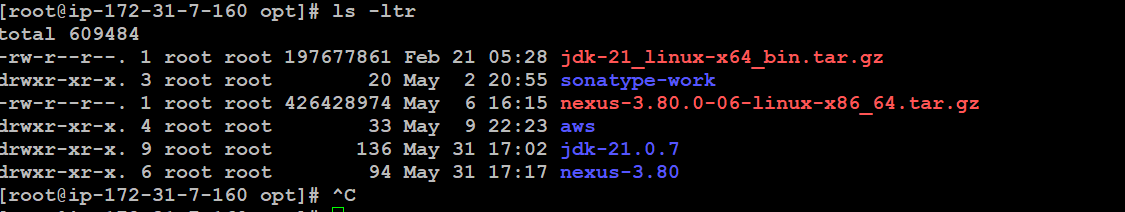
>tar -zxvf nexus-3.80.0-06-linux-x86\_64.tar.gz



**Rename it to nexus 3.80**

>mv /opt/nexus-3.80.0-06 /opt/nexus-3.80

>ls -ltr



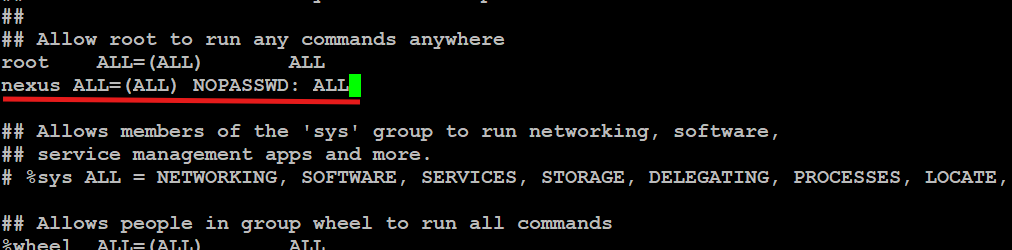
**Add the user nexus and give root privilege**

>useradd nexus

>visudo

Add this line below root user

**nexus ALL=(ALL) NOPASSWD: ALL**

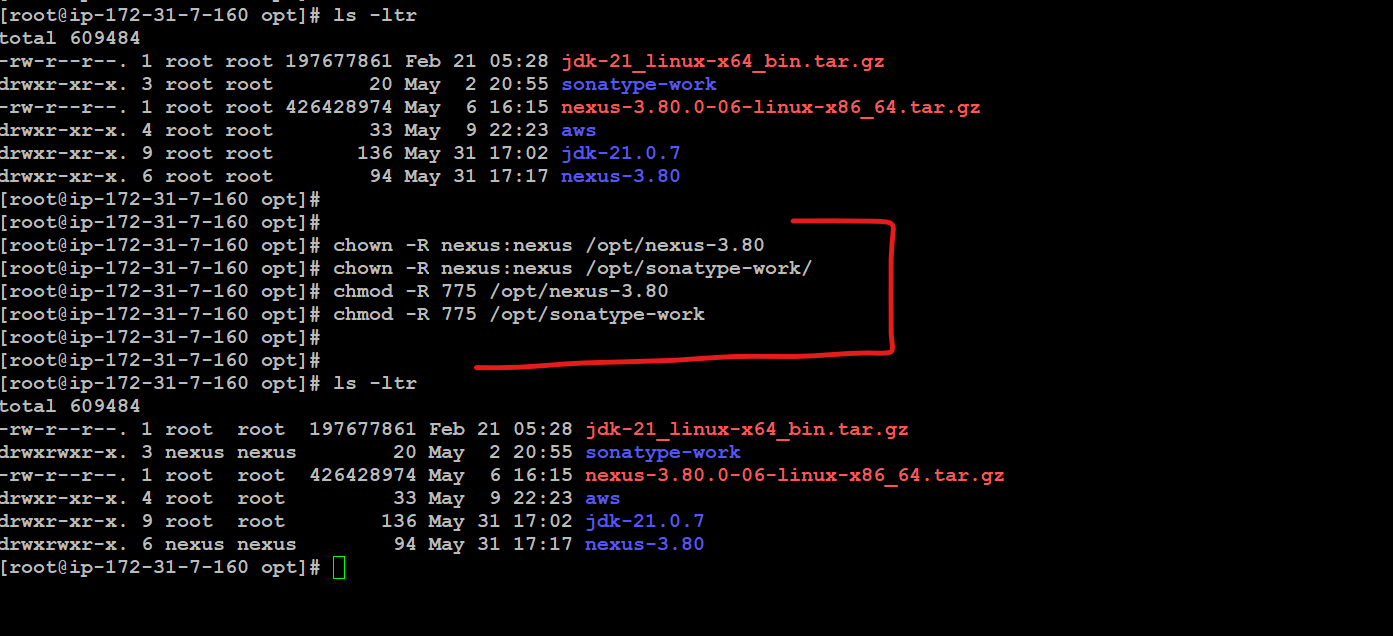


**CTRL S + CTRL X**

>id nexus

uid=1001(nexus) gid=1001(nexus) groups=1001(nexus)

**Change the ownership and permissions recursively for the directories nexus-3.80 and sonatype-work**



chown -R nexus:nexus /opt/nexus-3.80

chown -R nexus:nexus /opt/sonatype-work/

chmod -R 775 /opt/nexus-3.80

chmod -R 775 /opt/sonatype-work

775 permission in linux

the owner and group have read, write, and execute access (rwx), while other users have read and execute access (r-x)

**open /opt/nexus-3.45/bin/nexus.rc fine and uncomment run\_as\_user**

>vi /opt/nexus-3.80/bin/nexus.rc

**run\_as\_user="nexus"**

:wq!

**create nexus as a service (to run the application as nexus user)**

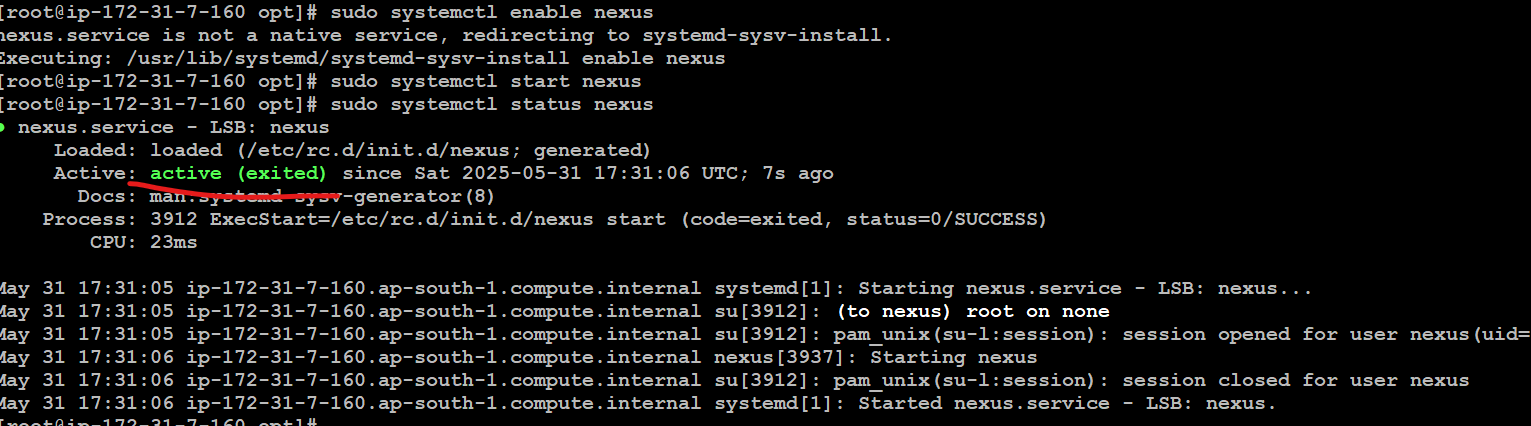
>ln -s /opt/nexus-3.80/bin/nexus /etc/init.d/nexus

48 whoami

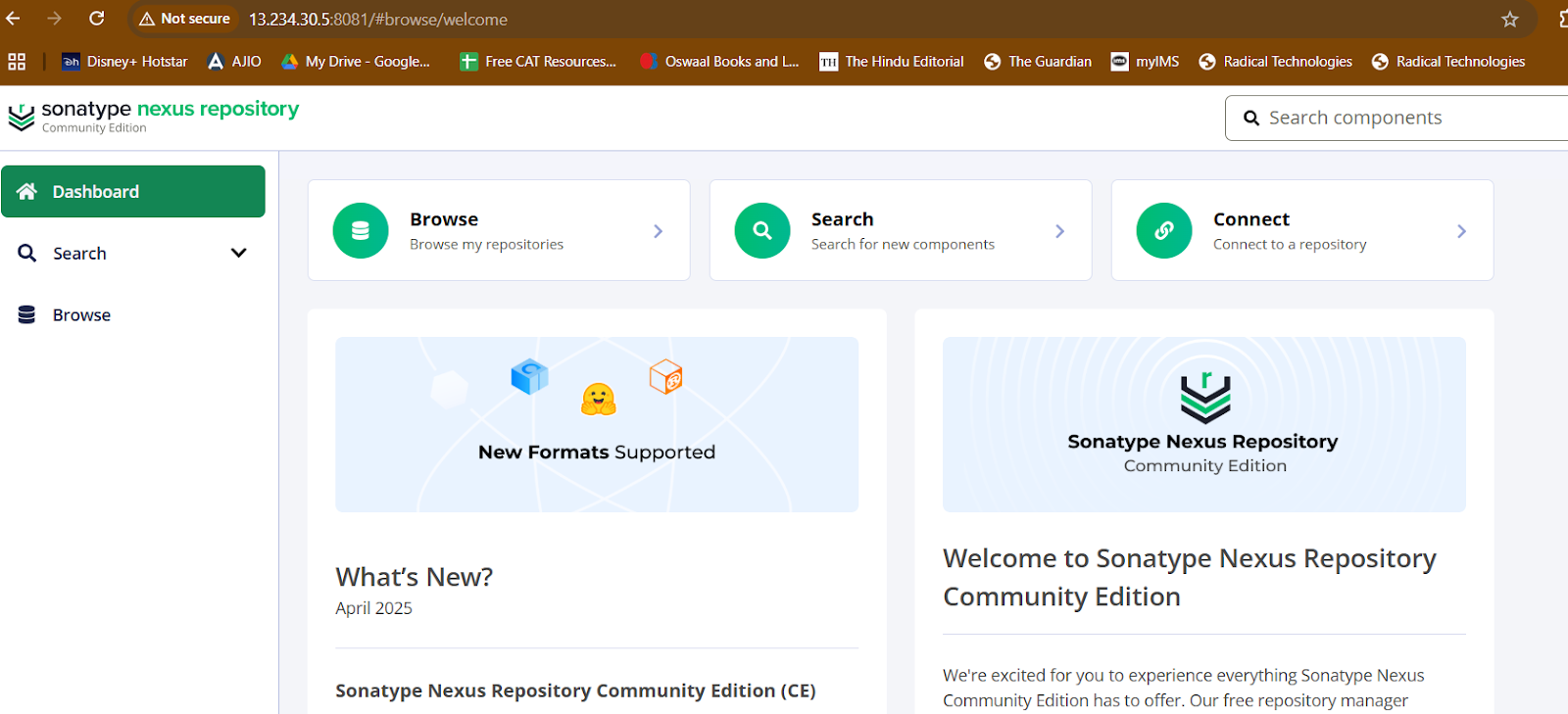
>sudo systemctl enable nexus

>sudo systemctl start nexus

>sudo systemctl status nexus

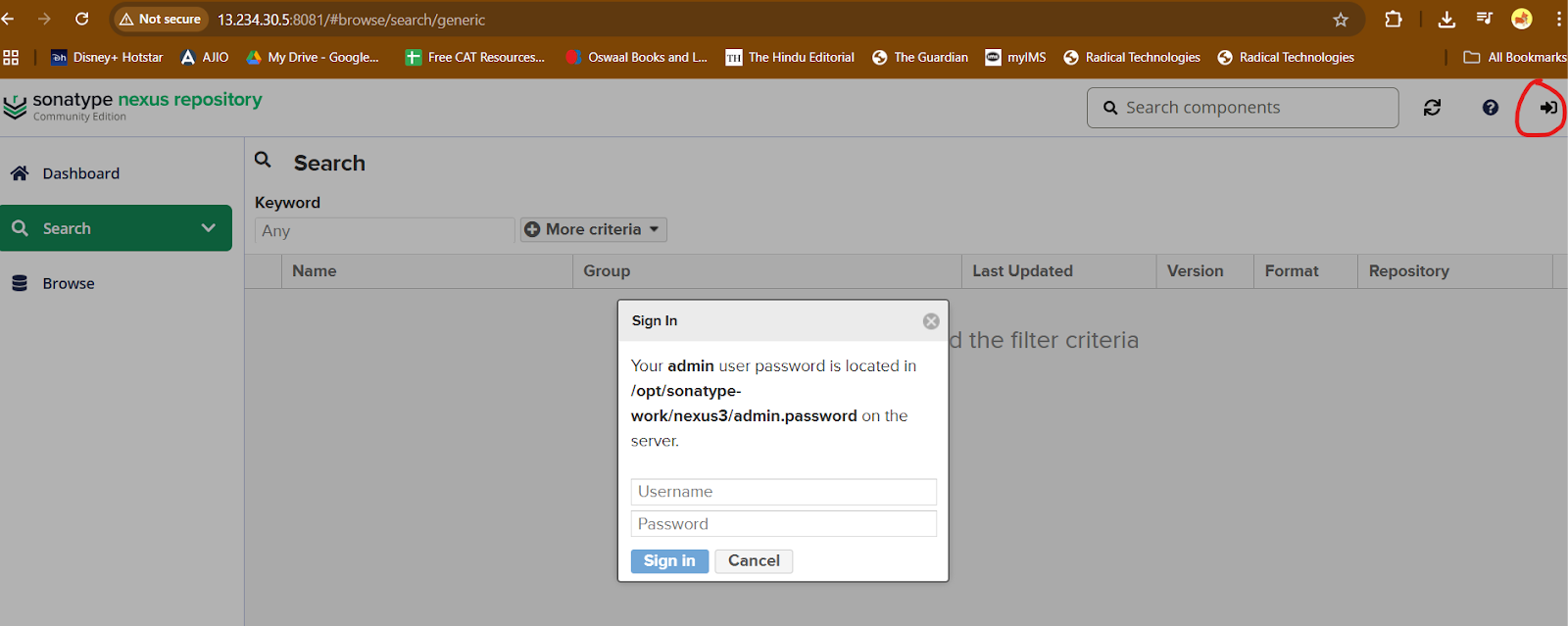


**Go to browser and type publicip:8081**



**Nexus is accessible**

**Click on login**



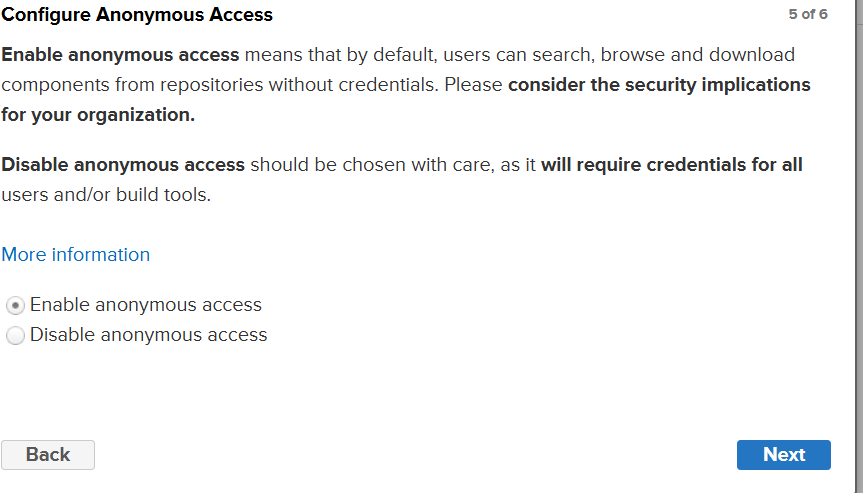
**Go to instance to get the password**

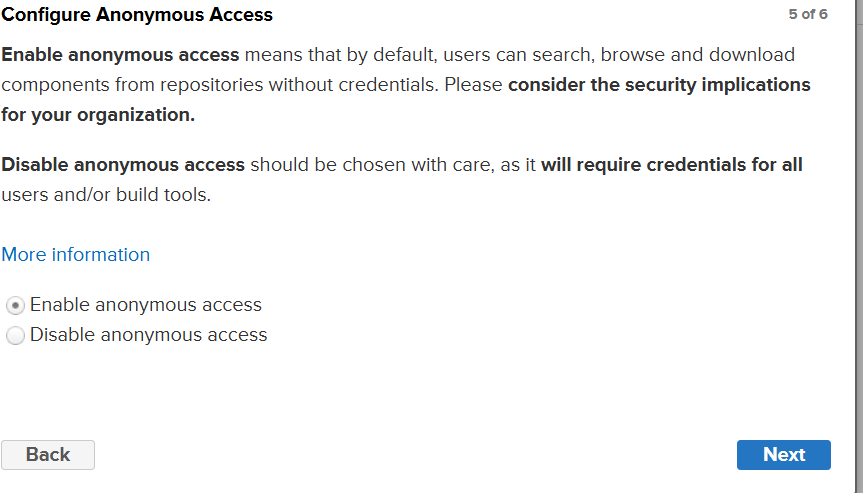
>cat /opt/sonatype-work/nexus3/admin.password

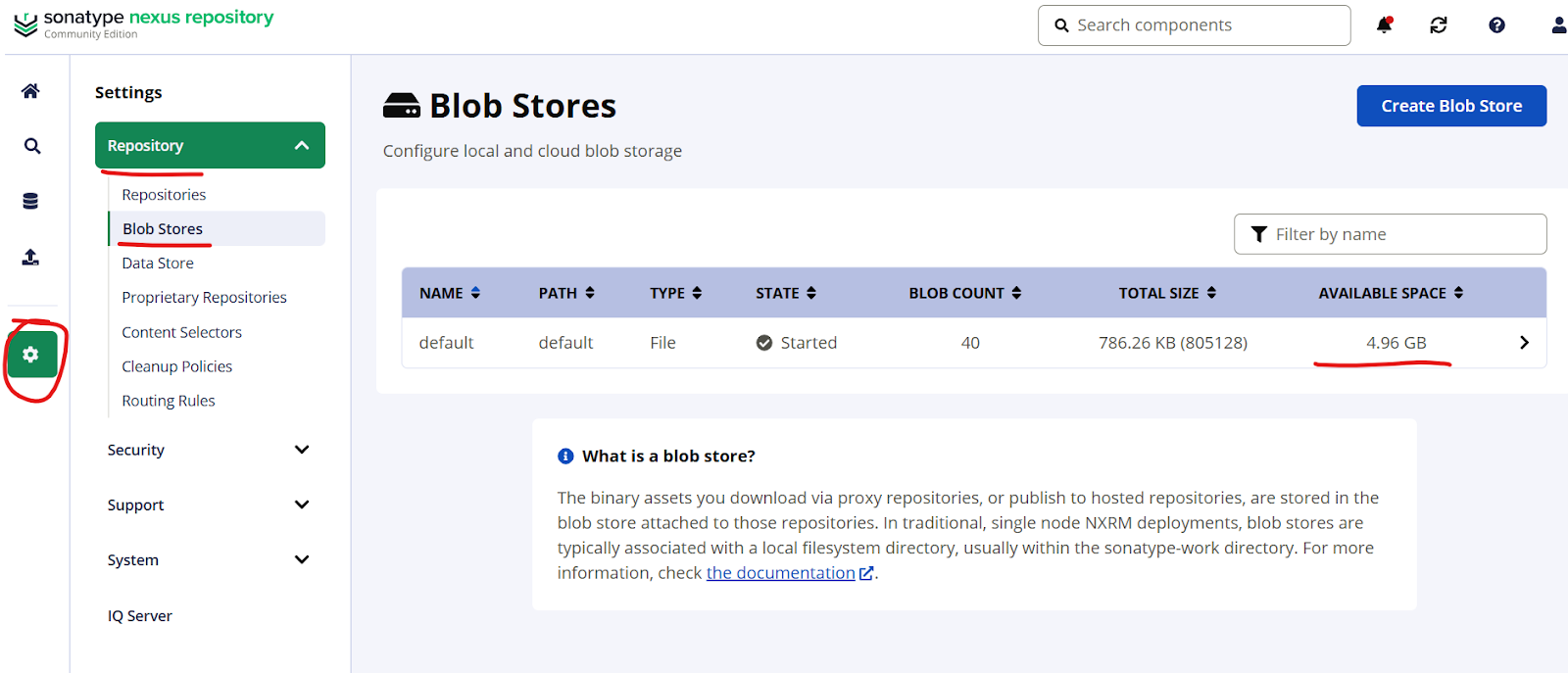


**Enter new password:** nexus@123

**Enable anonymous access**

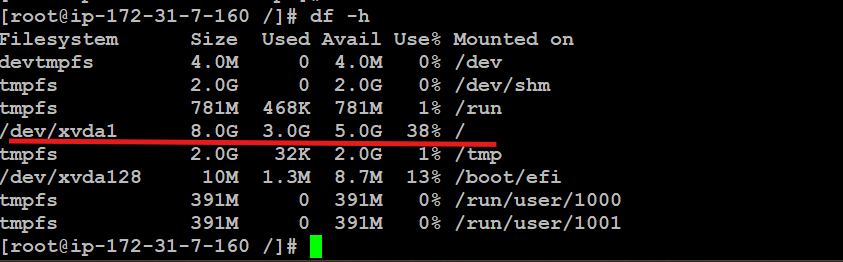






**Blob store has hard disk space - 4.96 out of 8 GB**

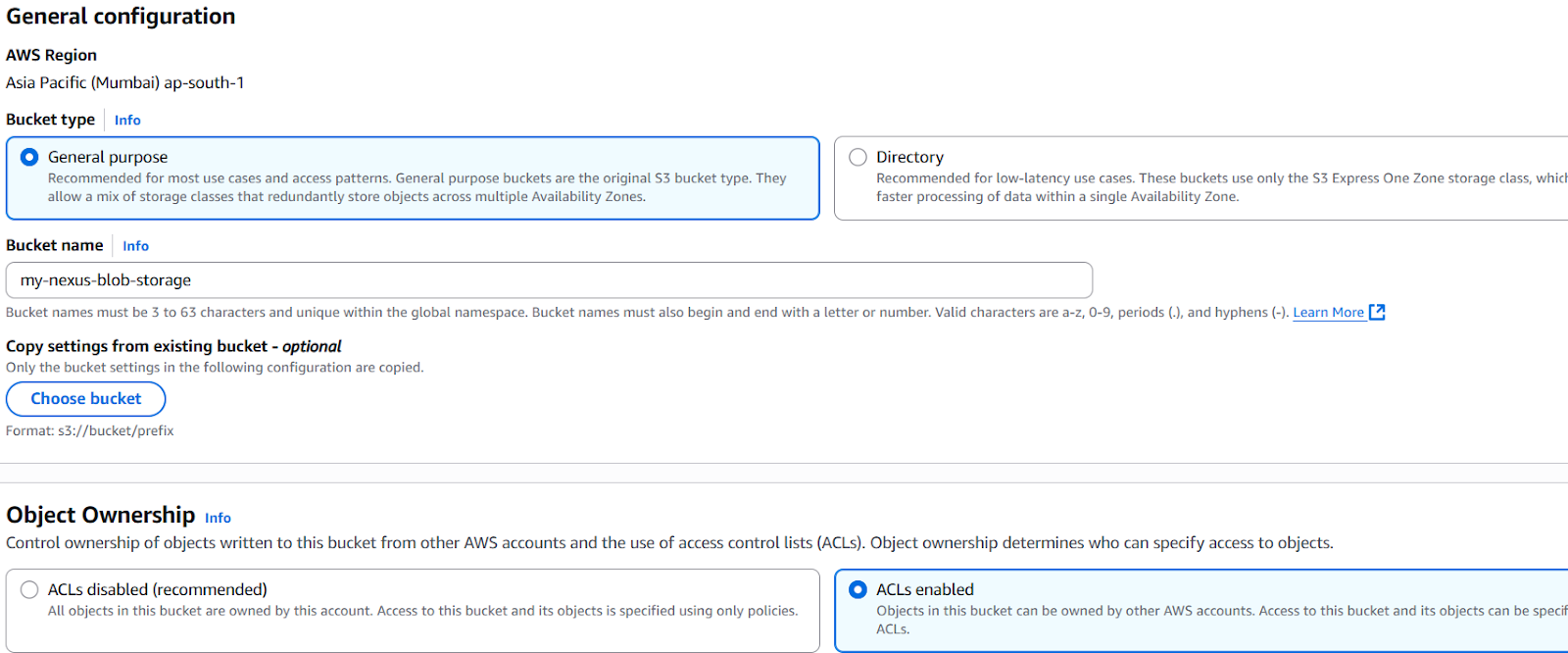
**>df -h**



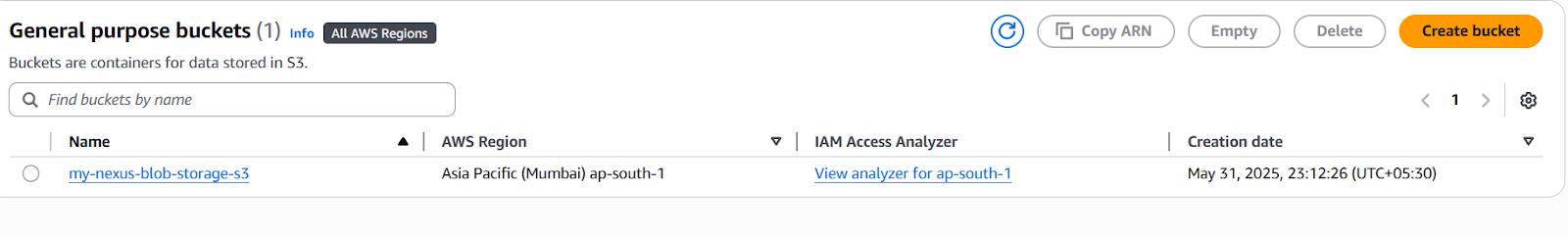
**Out of 8 GB - 3 G is used by OS and 5 GB left is being used as blob storage by nexus**

**Open AWS S3**

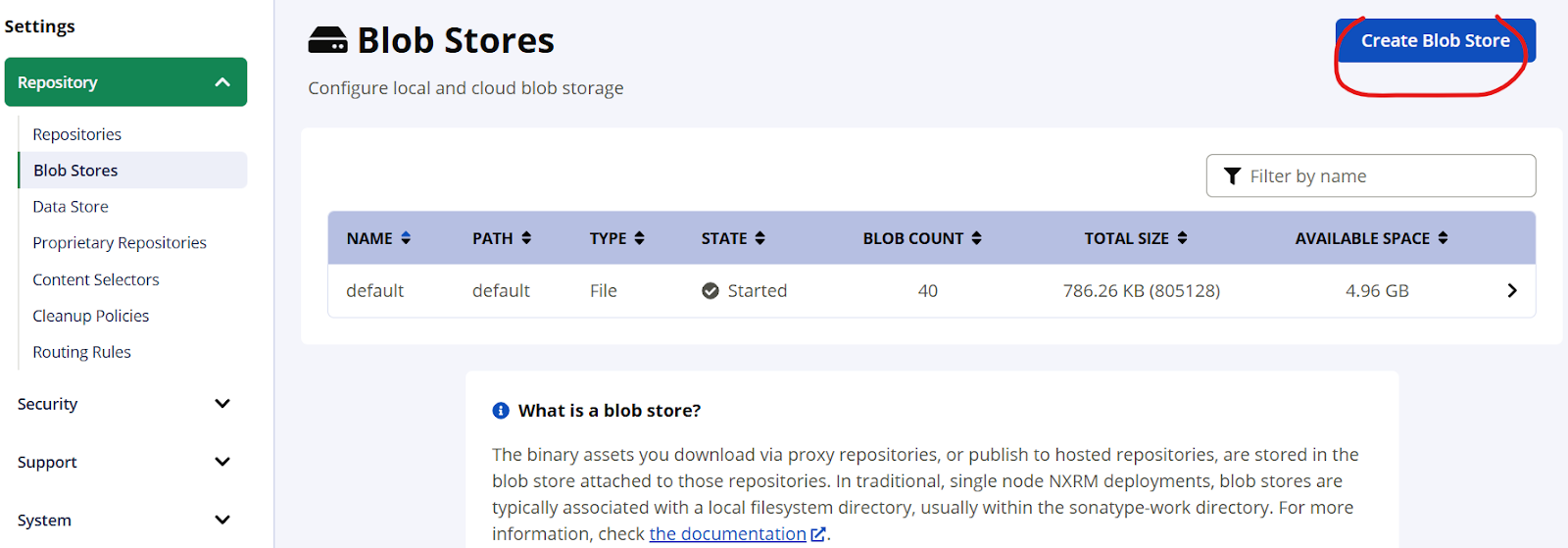
**Create a bucket - cloud blob store**

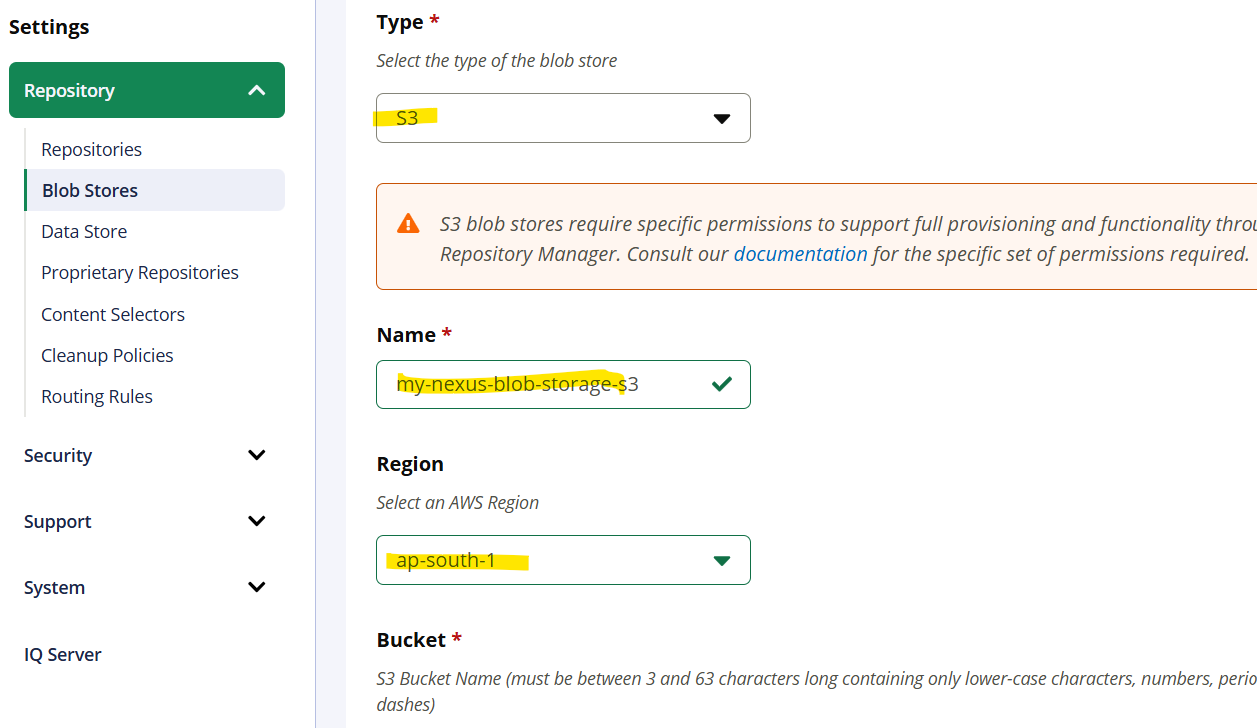


**>Create**

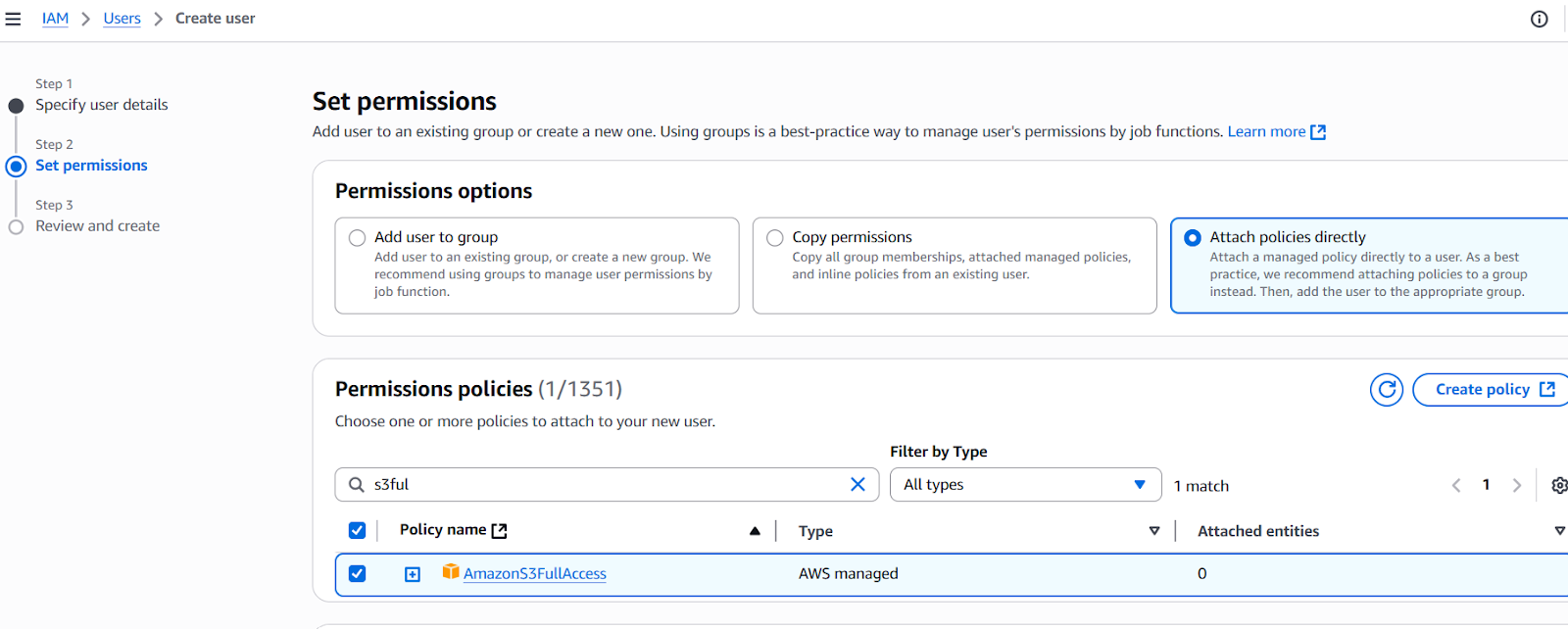


**Create blob store in nexus**

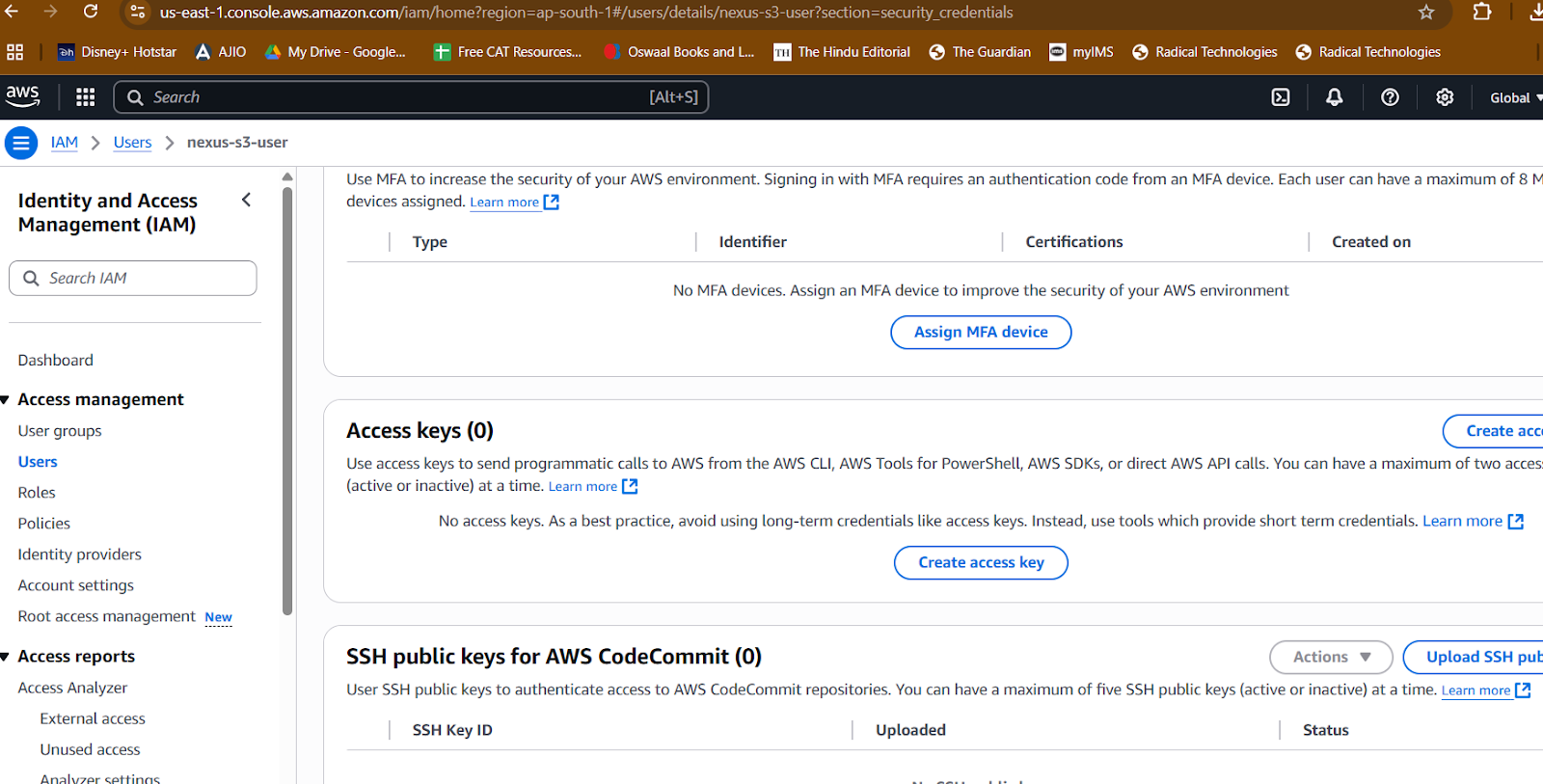


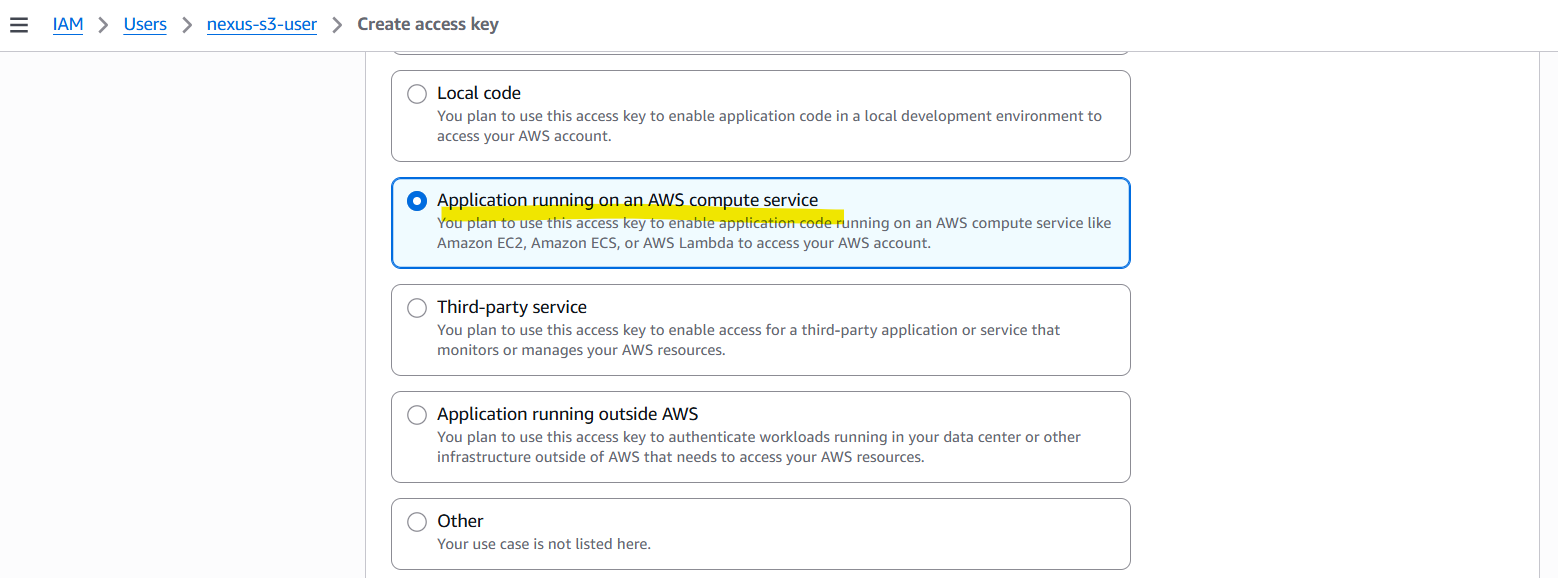


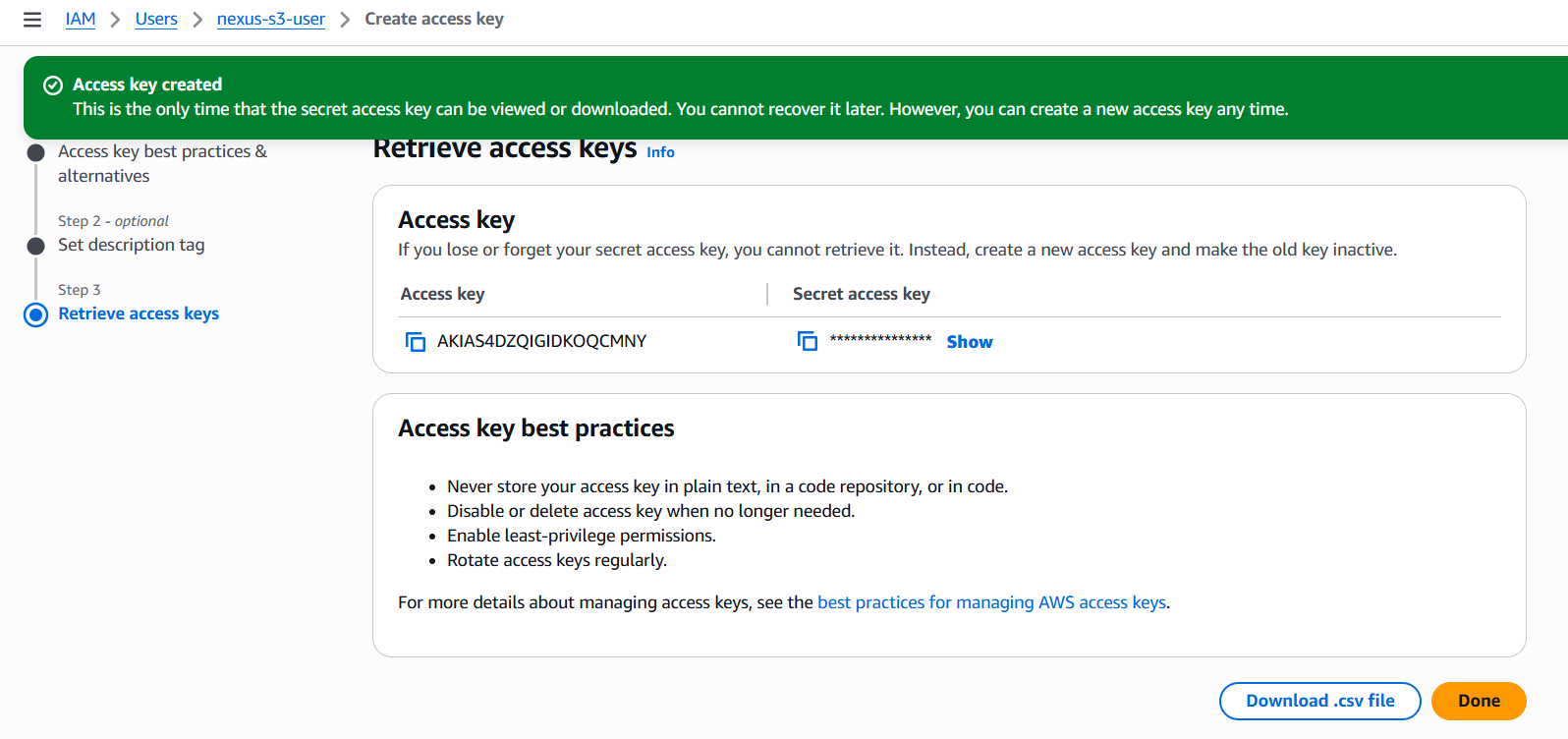
**Create IAM user and attach s3 policy**



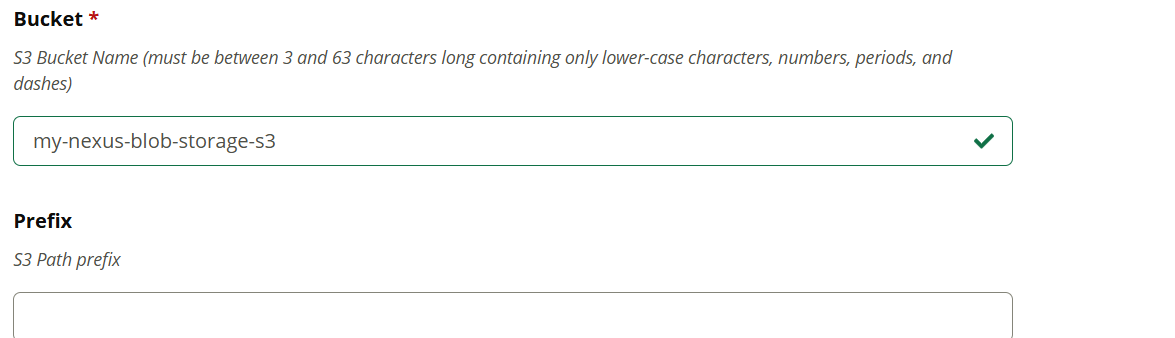
**Checkout the IAM user and create access keys**

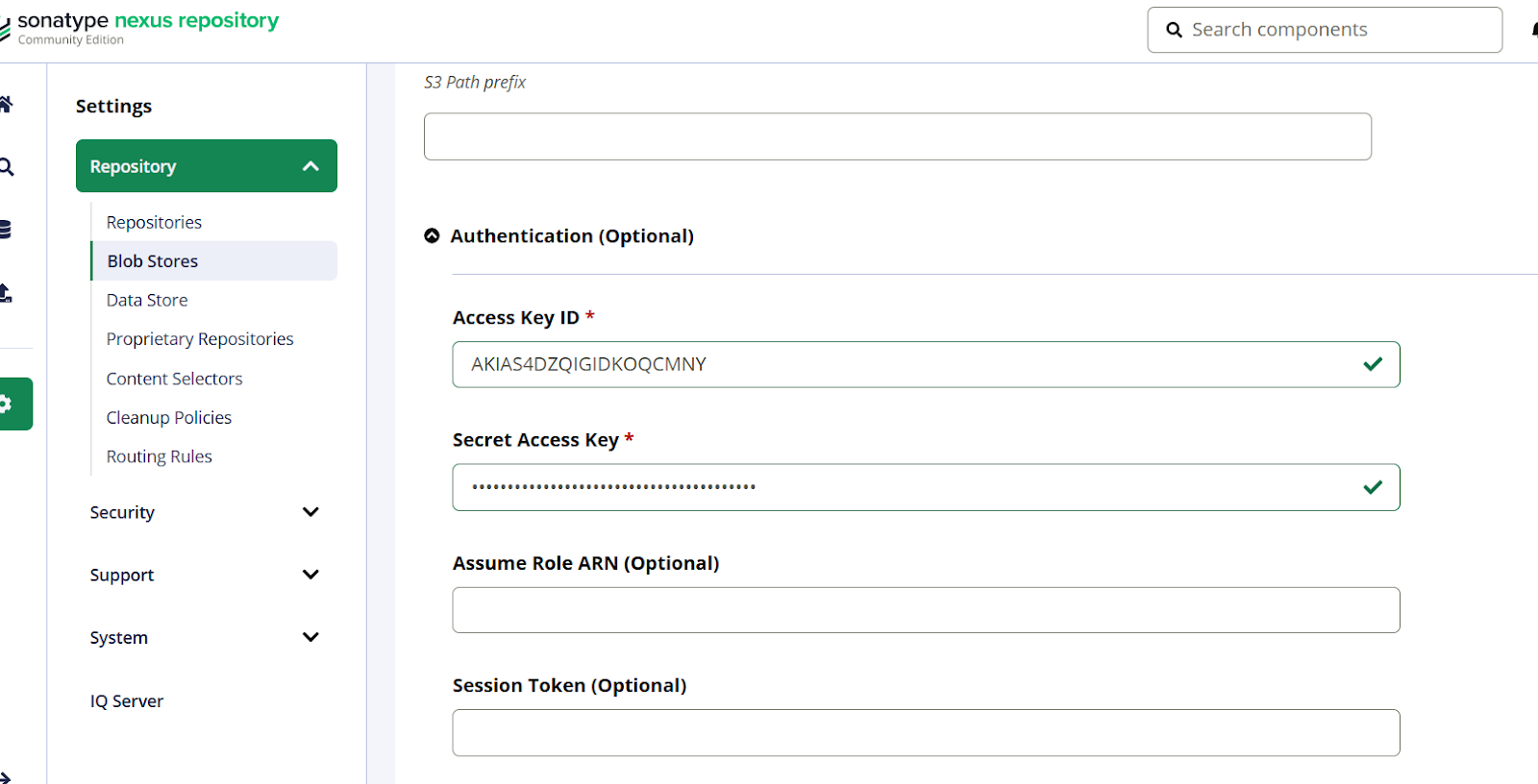






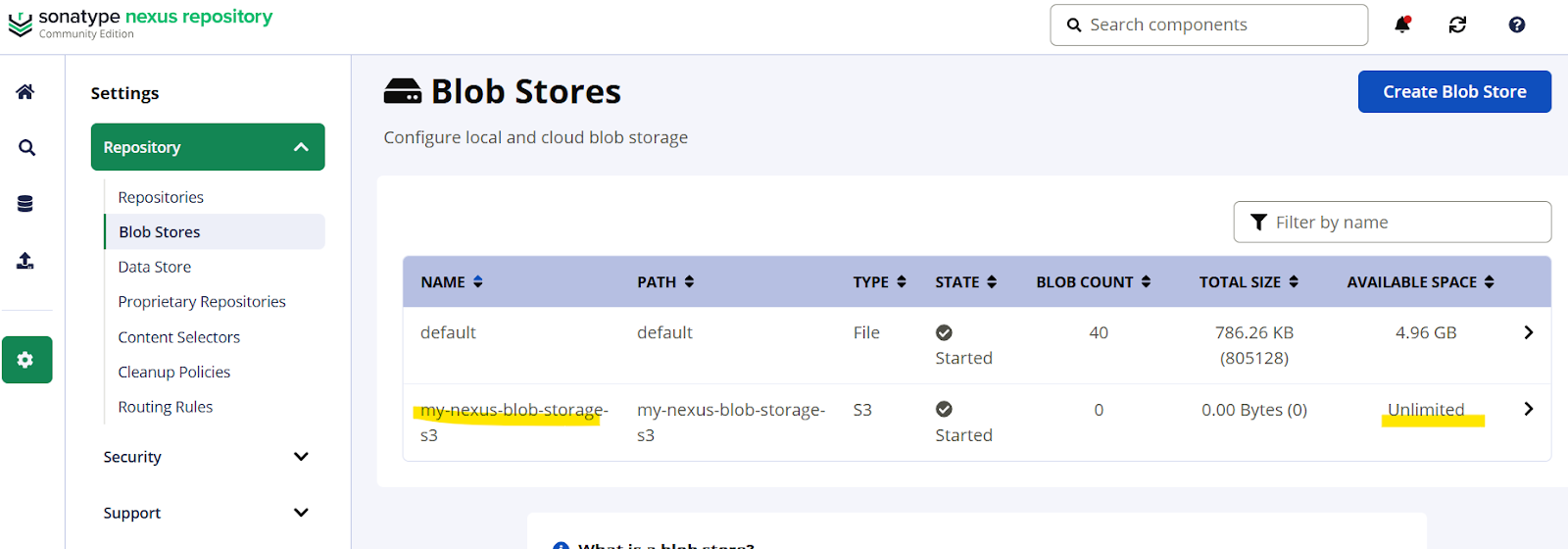
**Use the access key and secret access key in nexus**



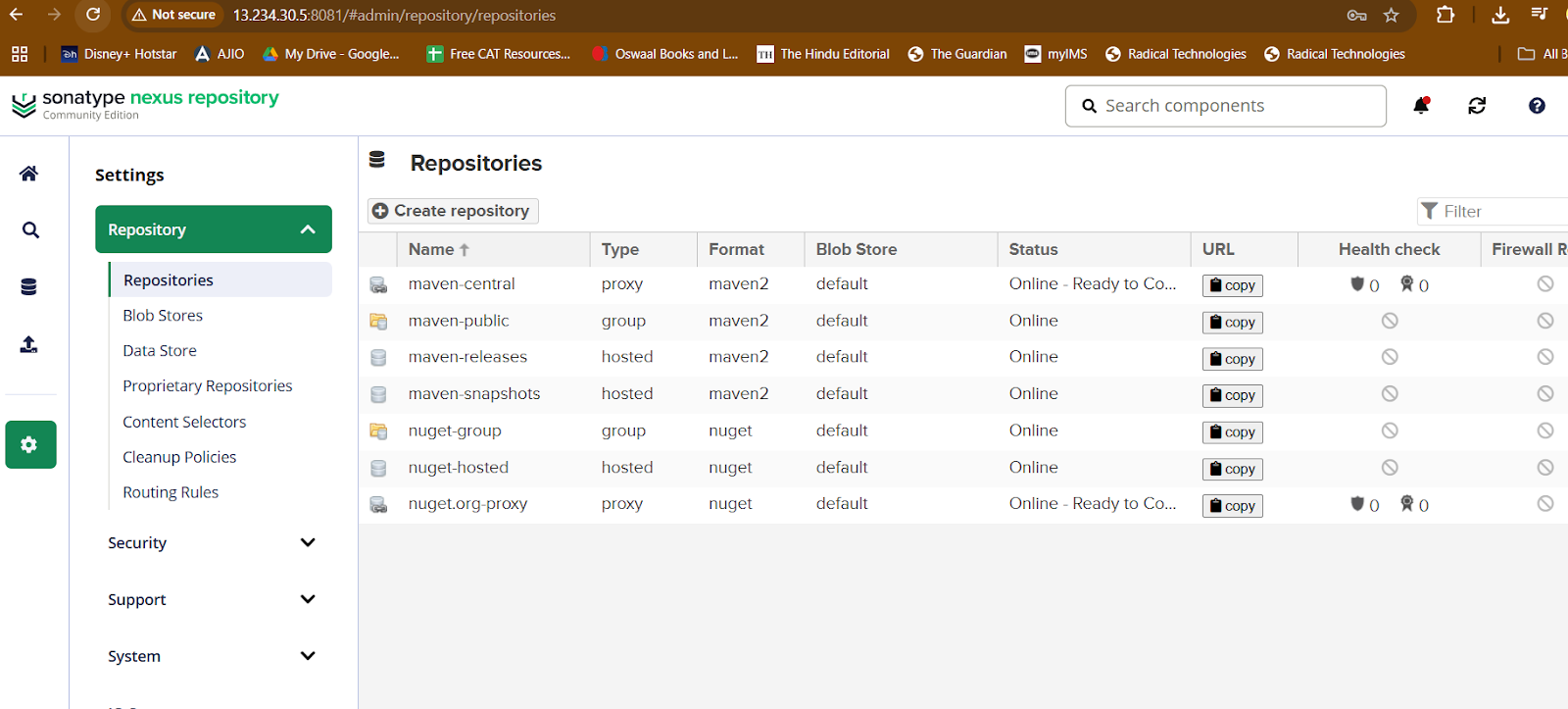


**SAVE**

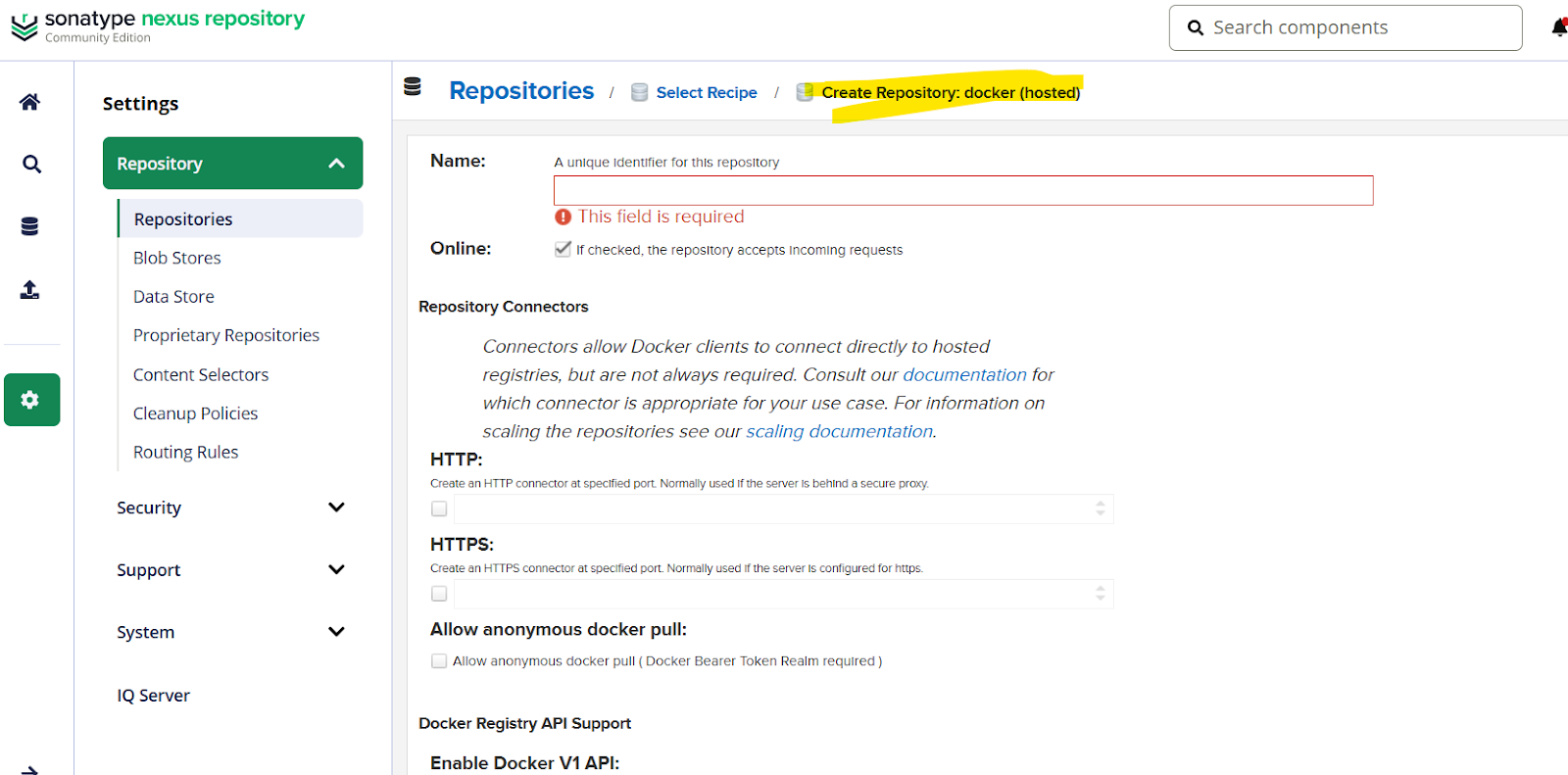
**Now we have two blob storage of which one has unlimited storage (S3)**



**Create a repository**



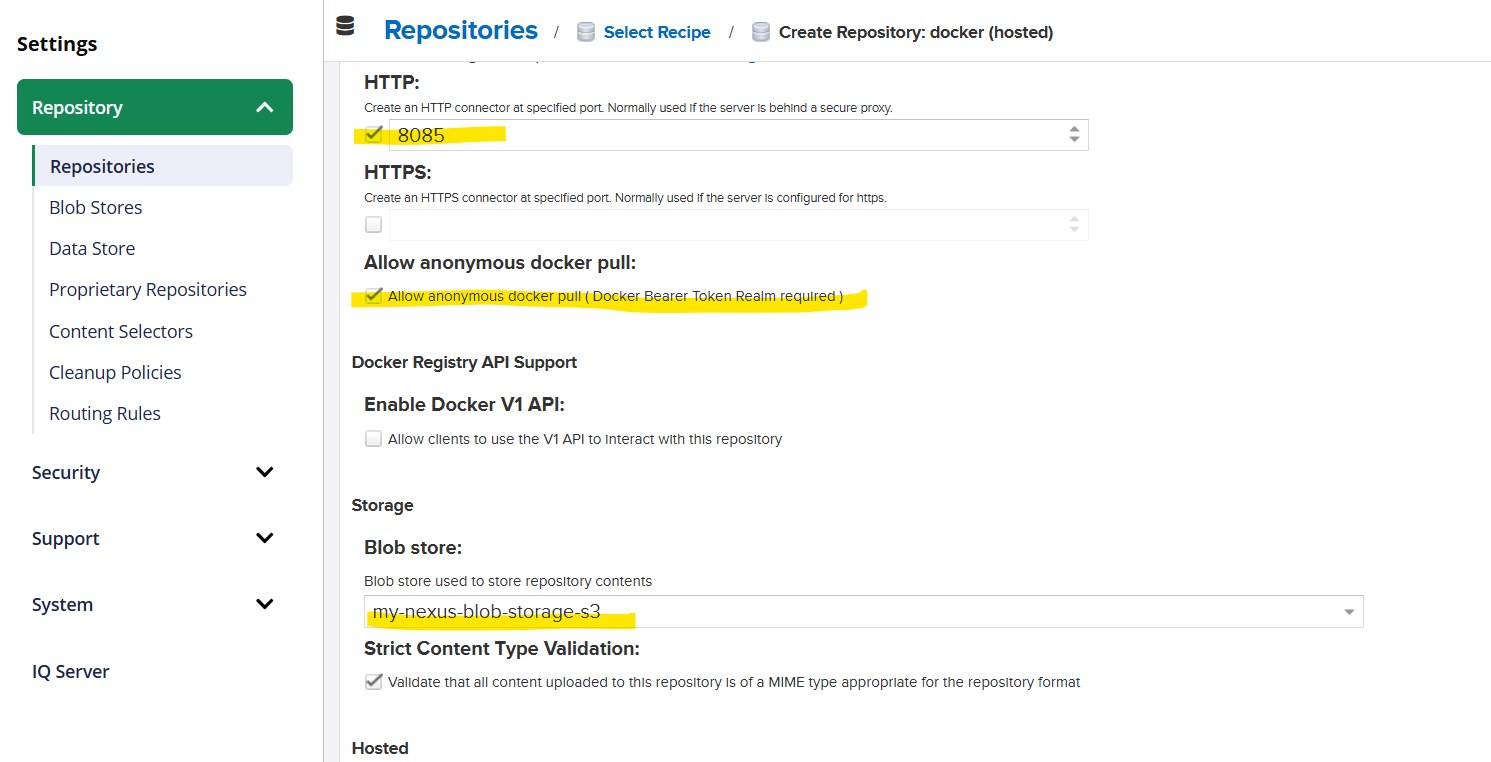
**Select docker hosted repository**



**Enable HTTP: 8085 port**

**Allow anonymous docker pull**

**Select your blob storage**



**Create repository**

**Now you have a URL where you can push your artifacts**

