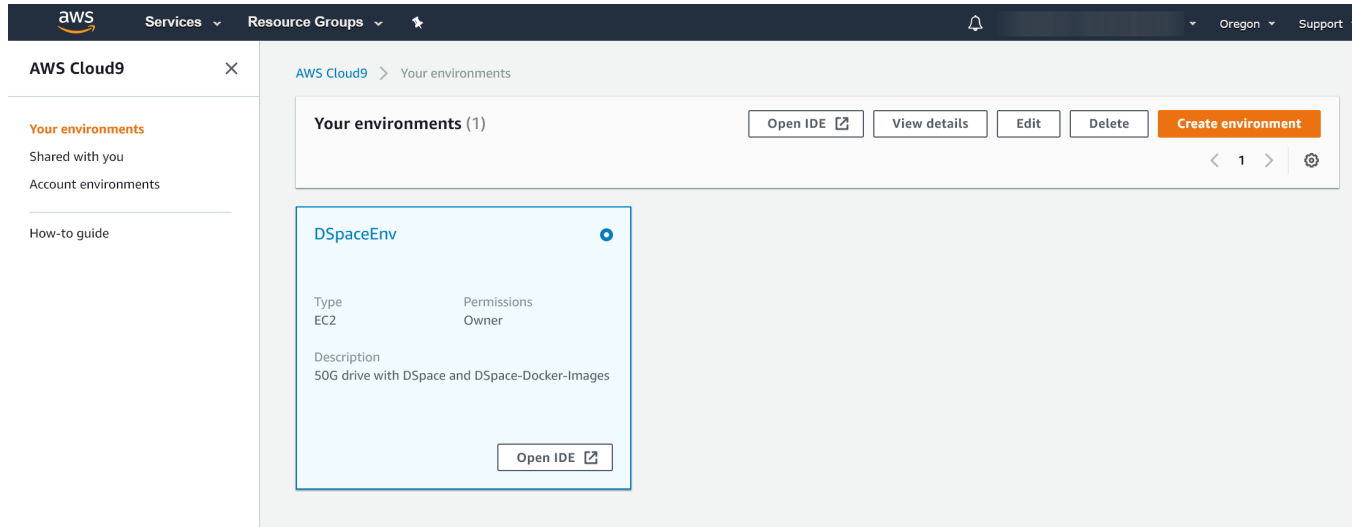


Using Published Images on AWS Cloud9

- [Create an AWS Cloud 9 Server](#)
- [Choose Type m4.large](#)
- [Modify the volume for your EC2 instance to 50G](#)
- [Install Docker compose](#)
- [Clone DSpace and DSpace-Docker-Images](#)
- [IDE Display: Code on Top, Terminal on Bottom, Running DSpace Docker](#)
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- [Understanding Costs](#)

Create an AWS Cloud 9 Server



Choose Type m4.large

To control costs, set to shutdown after X min/hours of inactivity

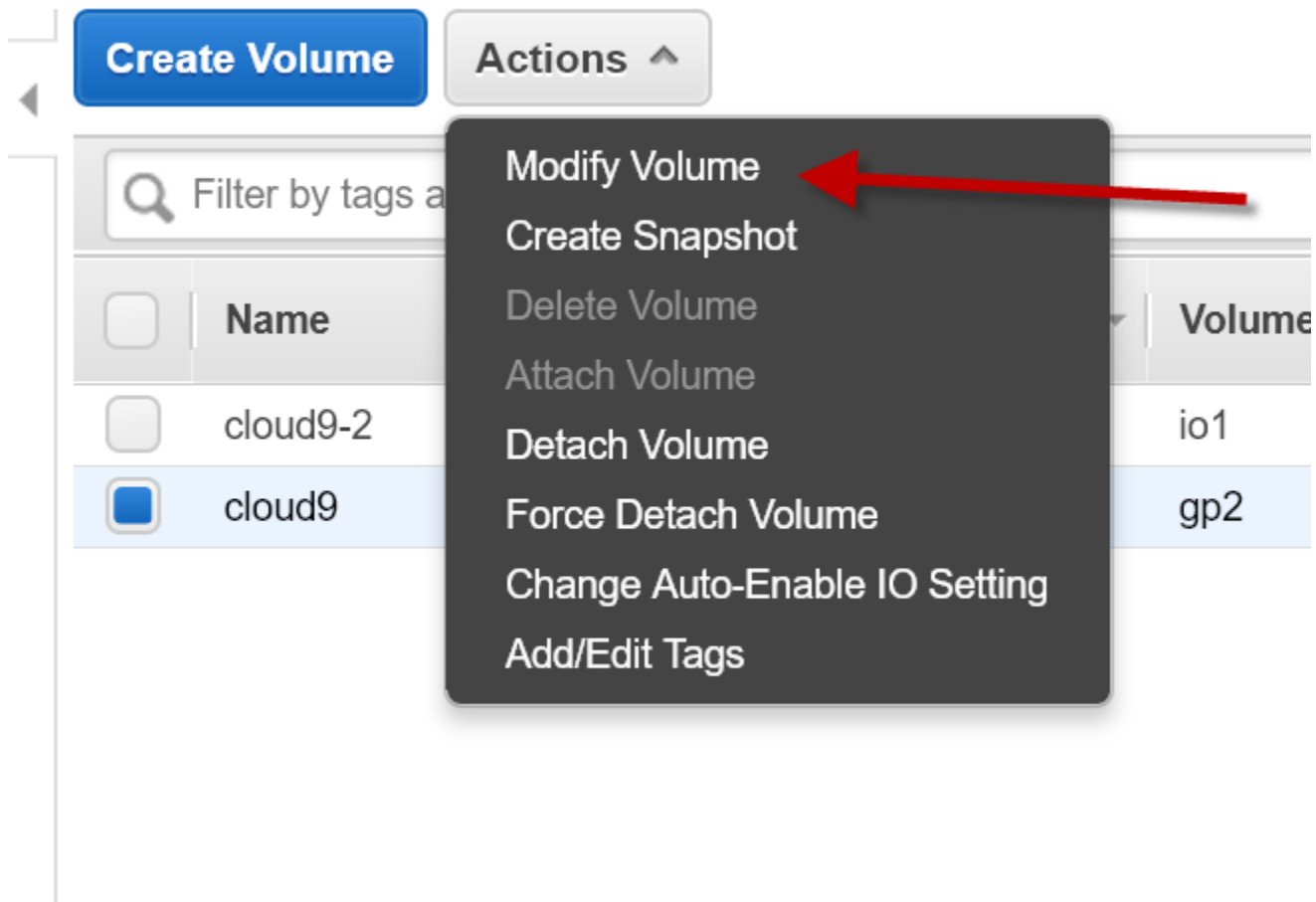
DSpaceEnv

Environment details

Name	EC2 instance type
DSpaceEnv	m4.large
Description	Memory
50G drive with DSpace and DSpace-Docker-Images	8 GiB
Type	vCPU
EC2	2
Permissions	Storage
Owner	EBS only

Modify the volume for your EC2 instance to 50G

Be sure to tag the EC2 instance and the volume as a "Cloud9" volume so that you remember to retain it.



After the modification is complete, see the following instructions on how to claim that space from your instance: <https://docs.aws.amazon.com/AWSEC2/latest/UserGuide/recognize-expanded-volume-linux.html>

Install Docker compose

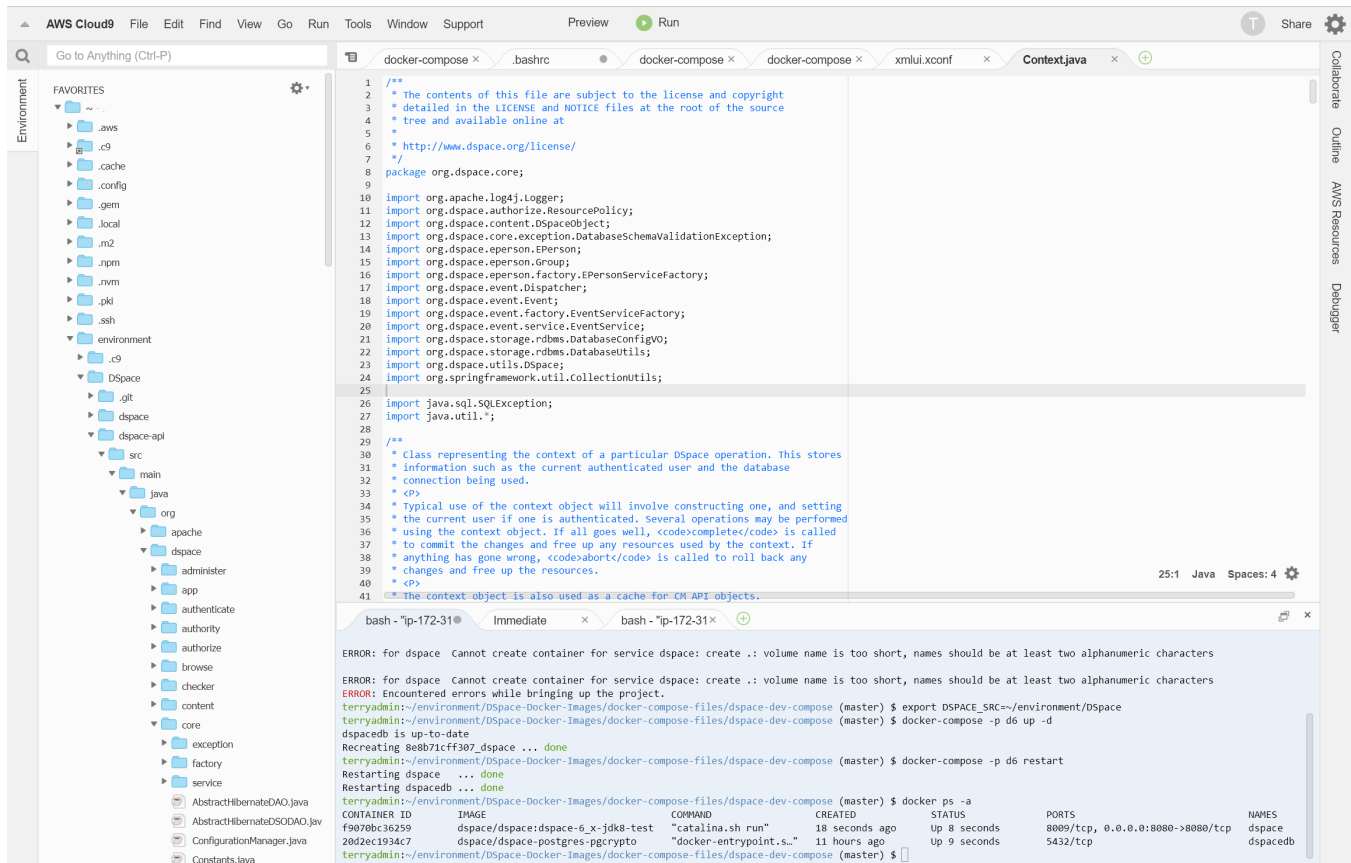
<https://docs.docker.com/compose/install/>

Clone DSpace and DSpace-Docker-Images

Clone DSpace and DSpace-Docker-Images

```
git clone https://github.com/DSpace/DSpace.git
git clone https://github.com/DSpace-Labs/DSpace-Docker-Images.git
cd DSpace
export DSPACE_SRC=${PWD}
cd ../DSpace-Docker-Images/docker-compose-files/dspace-compose
```

IDE Display: Code on Top, Terminal on Bottom, Running DSpace Docker



Look at the EC2 screen to get the DNS for your instance

Instance: **i-03e2feb89e8cd4644** (aws-cloud9-DSpaceEnv2-test-instruct) Public DNS: **ec2-34-220-101-101.us-west-2.compute.amazonaws.com**

2.compute.amazonaws.com

Description	Status Checks	Monitoring	Tags
Instance ID	i-03e2feb89e8cd4644		
Instance state	running		
Instance type	m4.large		
Elastic IPs			
Availability zone	us-west-2a		
Security groups	aws-cloud9-DSpaceEnv2-86f46f6bea13d44d1a84e59323070b49a-InstanceSecurityGroup-1Y1UGKHM44E4G . view inbound rules . view outbound rules		
Scheduled events	No scheduled events		
Public DNS (IPv4)	ec2-34-220-101-101.us-west-2.compute.amazonaws.com		
IPv4 Public IP	34.220.101.101		
IPv6 IPs	-		
Private DNS	ip-172-31-20-32.us-west-2.compute.internal		
Private IPs	172.31.20.32		
Secondary private IPs			
VPC ID	vpc-4b7bb933		

Click here to modify the inbound rules to allow access to port 8080

Hover here to copy DNS for instance

DSpace App Running in Docker

Get the public IP from the EC2 Instance Dashboard. Add port 8080

DSpace

Admin User

DSpace Home / Control panel

Control Panel

Java Information

Configuration

SystemWide Alerts

Harvesting

Current Activity

Java and Operating System

Java Runtime Environment Version: 1.8.0_181
Java Runtime Environment Vendor: OpenJDK 64-Bit Server VM
Operating System Name: Linux
Operating System Architecture: amd64
Operating System Version: 4.14.77-70.59.amzn1.x86_64

Runtime statistics

Available processors: 2
Maximum memory: 1778 MiB
Allocated memory: 809 MiB
Used memory: 360 MiB
Free memory: 449 MiB

Cocoon Info

Cocoon Version: 2.2.0
Cocoon Work Directory: /usr/local/tomcat/work/Catalina/localhost/xmlui
Cocoon Cache Directory: /usr/local/tomcat/work/Catalina/localhost/xmlui/cache-dir
Main Cache Size (EHDefaultStore, 0x3cd0df29): 63 (Clear Cache Immediately)
Transient Cache Size (DefaultTransientStore, 0x4cf911f7): 53
Transient Cache Size (DefaultTransientStore, 0x43662ca8): 0

Search

Q

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All of DSpace

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By Issue Date

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Subjects

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Profile

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ADMINISTRATIVE

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Items

Understanding Costs

Close all browser tabs that are accessing the instance in order to ensure that the shutdown takes place. The EC2 instance will be in a stopped state. If you wish to re-use this environment, do not terminate the EC2 instance and do not delete the associated volume.

With the automatic shutdown setting, I have found the daily costs of maintaining this environment to be less that \$1 / day. Carefully track costs if you do not destroy the EC2 instance and the associated volume.