

AutoMQ User Manual

Introduction to AutoMQ

AutoMQ is a scalable and easy-to-use messaging platform based on Kafka. It supports efficient message streaming, topic management, and file processing in a Docker-based environment.

System Requirements

Hardware Requirements

- **CPU:** Minimum 2 cores (4 cores recommended)
- **Memory:** Minimum 2 GB RAM (4 GB recommended)
- **Disk Space:** 10 GB free storage

Software Requirements

- **Operating System:** Ubuntu (preferred) or any Linux-based system
- **Docker:** Version 20.10 or later
- **curl:** Version 7.68.0 or later

Installing and Starting AutoMQ

Step 1: Pull the AutoMQ Docker Image

Run the following command to pull the AutoMQ Docker image:

```
1 docker pull automqinc/automq
```

Install the latest PowerShell for new features and improvements! <https://aka.ms/PSWindows>

```
PS C:\Users\ADMIN> ubuntu
phuc@DESKTOP-DJFD184:~$ docker pull automqinc/automq
Using default tag: latest
latest: Pulling from automqinc/automq
Digest: sha256:1ea6dee91842a534fb3c9da42185646392a15e3f5bcbbb6b8fa4f6eece2ac7fb
Status: Image is up to date for automqinc/automq:latest
docker.io/automqinc/automq:latest
phuc@DESKTOP-DJFD184:~$
```

Figure 1: Docker pull command

Step 2: Install and start AutoMQ Cluster

Run this command to install and start AutoMQ Cluster:

```
1 curl https://download.automq.com/community_edition/
  standalone_deployment/install_run.sh | bash
```

```
docker.io/automqinc/automq:latest
phuc@DESKTOP-DJFD184:~$ curl https://download.automq.com/community_edition/standalone_deployment/install_run.sh |
bash
% Total    % Received % Xferd  Average Speed   Time    Time     Time  Current
           Dload  Upload   Total     Spent    Left     Speed
100 3782 100 3782    0     0 35635      0 --:--:-- --:--:-- --:--:-- 36019
Welcome to the installation of AutoMQ, A Cloud-Native fork of Kafka by separating storage to S3.
If you encounter any problems, please report them at https://github.com/AutoMQ/automq/issues.
[sudo] password for phuc:
[WARN] Directory automq-standalone-deployment already exists.
% Total    % Received % Xferd  Average Speed   Time    Time     Time  Current
           Dload  Upload   Total     Spent    Left     Speed
100 5158 100 5158    0     0 40648      0 --:--:-- --:--:-- --:--:-- 40936
Please enter your password for sudo:
WARN[0000] /tmp/automq-standalone-deployment/docker-compose.yaml: the attribute 'version' is obsolete, it will be
ignored, please remove it to avoid potential confusion
[+] Running 5/5
✔Container localstack Healthy 0.7s
✔Container aws-cli Started 1.2s
✔Container controller Running 0.0s
✔Container broker2 Running 0.0s
✔Container broker1 Running 0.0s

AutoMQ Cluster Overview
IP Port Role S3 Endpoint WAL Path S3 Bucket S3 Region
-----
localhost 9092 controller http://10.6.0.2:4566 None
localhost None None
localhost 9094 broker http://10.6.0.2:4566 /tmp/kraft-combined-logs/s3wal automq-data us-east-1
localhost 9095 broker http://10.6.0.2:4566 /tmp/kraft-combined-logs/s3wal automq-data us-east-1

Installed Containers
Container Name Description
-----
controller Kafka Controller
broker1 Kafka Broker
broker2 Kafka Broker
aws-cli You can use the AWS SDK to create an S3 bucket on a local S3 service like LocalStack.
localstack A fully functional local AWS cloud stack. Develop and test your cloud & Serverless apps offli
ne
AutoMQ has been successfully installed. You can now access AutoMQ from the bootstrap server address.
phuc@DESKTOP-DJFD184:~$ |
phuc@DESKTOP-DJFD184:~$
for localhost:
localhost:9094,localhost:9095
phuc@DESKTOP-DJFD184:~$
```

Figure 2: Installing

Managing Topics

4.1 Create a Topic

Run this command to create a Kafka topic named `quickstart-events`:

```
1 CMD='docker run --network automq_net automqinc/automq:latest /bin/bash  
-c "/opt/kafka/kafka/bin/kafka-topics.sh --create --topic quickstart  
-events --bootstrap-server broker1:9092,broker2:9092"'; [ "$(uname)"  
= "Linux" ] && eval "sudo $CMD" || eval $CMD
```

```
phuc@DESKTOP-DJFD184:~$ CMD='docker run --network automq_net automqinc/automq:latest /bin/bash -c "/opt/kafka/kafk  
a/bin/kafka-topics.sh --create --topic quickstart-events --bootstrap-server broker1:9092,broker2:9092"'; [ "$(unam  
e)" = "Linux" ] && eval "sudo $CMD" || eval $CMD  
[2024-12-14 08:03:35,560] WARN [AdminClient clientId=adminclient-1] Connection to node -1 (broker1/10.6.0.6:9092)  
could not be established. Node may not be available. (org.apache.kafka.clients.NetworkClient)  
[2024-12-14 08:03:35,583] WARN [AdminClient clientId=adminclient-1] Connection to node -2 (broker2/10.6.0.5:9092)  
could not be established. Node may not be available. (org.apache.kafka.clients.NetworkClient)  
[2024-12-14 08:03:35,596] WARN [AdminClient clientId=adminclient-1] Connection to node -1 (broker1/10.6.0.6:9092)  
could not be established. Node may not be available. (org.apache.kafka.clients.NetworkClient)  
[2024-12-14 08:03:35,704] WARN [AdminClient clientId=adminclient-1] Connection to node -2 (broker2/10.6.0.5:9092)  
could not be established. Node may not be available. (org.apache.kafka.clients.NetworkClient)  
[2024-12-14 08:03:35,706] WARN [AdminClient clientId=adminclient-1] Connection to node -1 (broker1/10.6.0.6:9092)  
could not be established. Node may not be available. (org.apache.kafka.clients.NetworkClient)  
[2024-12-14 08:03:35,910] WARN [AdminClient clientId=adminclient-1] Connection to node -2 (broker2/10.6.0.5:9092)  
could not be established. Node may not be available. (org.apache.kafka.clients.NetworkClient)  
[2024-12-14 08:03:36,020] WARN [AdminClient clientId=adminclient-1] Connection to node -1 (broker1/10.6.0.6:9092)  
could not be established. Node may not be available. (org.apache.kafka.clients.NetworkClient)  
[2024-12-14 08:03:36,130] WARN [AdminClient clientId=adminclient-1] Connection to node -2 (broker2/10.6.0.5:9092)  
could not be established. Node may not be available. (org.apache.kafka.clients.NetworkClient)  
[2024-12-14 08:03:36,545] WARN [AdminClient clientId=adminclient-1] Connection to node -1 (broker1/10.6.0.6:9092)  
could not be established. Node may not be available. (org.apache.kafka.clients.NetworkClient)  
[2024-12-14 08:03:36,576] WARN [AdminClient clientId=adminclient-1] Connection to node -2 (broker2/10.6.0.5:9092)  
could not be established. Node may not be available. (org.apache.kafka.clients.NetworkClient)  
[2024-12-14 08:03:37,398] WARN [AdminClient clientId=adminclient-1] Connection to node -1 (broker1/10.6.0.6:9092)  
could not be established. Node may not be available. (org.apache.kafka.clients.NetworkClient)  
[2024-12-14 08:03:37,399] WARN [AdminClient clientId=adminclient-1] Connection to node -2 (broker2/10.6.0.5:9092)  
could not be established. Node may not be available. (org.apache.kafka.clients.NetworkClient)  
[2024-12-14 08:03:38,318] WARN [AdminClient clientId=adminclient-1] Connection to node -1 (broker1/10.6.0.6:9092)  
could not be established. Node may not be available. (org.apache.kafka.clients.NetworkClient)  
[2024-12-14 08:03:38,425] WARN [AdminClient clientId=adminclient-1] Connection to node -2 (broker2/10.6.0.5:9092)  
could not be established. Node may not be available. (org.apache.kafka.clients.NetworkClient)  
[2024-12-14 08:03:39,237] WARN [AdminClient clientId=adminclient-1] Connection to node -1 (broker1/10.6.0.6:9092)  
could not be established. Node may not be available. (org.apache.kafka.clients.NetworkClient)  
[2024-12-14 08:03:39,252] WARN [AdminClient clientId=adminclient-1] Connection to node -2 (broker2/10.6.0.5:9092)  
could not be established. Node may not be available. (org.apache.kafka.clients.NetworkClient)  
[2024-12-14 08:03:40,198] WARN [AdminClient clientId=adminclient-1] Connection to node -2 (broker2/10.6.0.5:9092)  
could not be established. Node may not be available. (org.apache.kafka.clients.NetworkClient)  
[2024-12-14 08:03:40,300] WARN [AdminClient clientId=adminclient-1] Connection to node -1 (broker1/10.6.0.6:9092)  
could not be established. Node may not be available. (org.apache.kafka.clients.NetworkClient)  
[2024-12-14 08:03:41,210] WARN [AdminClient clientId=adminclient-1] Connection to node -2 (broker2/10.6.0.5:9092)  
could not be established. Node may not be available. (org.apache.kafka.clients.NetworkClient)  
[2024-12-14 08:03:41,314] WARN [AdminClient clientId=adminclient-1] Connection to node -1 (broker1/10.6.0.6:9092)  
could not be established. Node may not be available. (org.apache.kafka.clients.NetworkClient)  
[2024-12-14 08:03:42,126] WARN [AdminClient clientId=adminclient-1] Connection to node -2 (broker2/10.6.0.5:9092)  
could not be established. Node may not be available. (org.apache.kafka.clients.NetworkClient)  
[2024-12-14 08:03:42,230] WARN [AdminClient clientId=adminclient-1] Connection to node -1 (broker1/10.6.0.6:9092)  
could not be established. Node may not be available. (org.apache.kafka.clients.NetworkClient)  
Created topic quickstart-events.
```

Figure 3: Create topic

4.2 List Existing Topics

Run this command to view all available topics:

```
1 docker run --network automq_net automqinc/automq:latest /bin/bash -c "  
/opt/kafka/kafka/bin/kafka-topics.sh --list --bootstrap-server  
broker1:9092,broker2:9092"
```

```
phuc@DESKTOP-DJFD184:~$ docker run --network automq_net automqinc/automq:latest
/bin/bash -c "/opt/kafka/kafka/bin/kafka-topics.sh --list --bootstrap-server b
roker1:9092,broker2:9092"
__auto_balancer_metrics
__consumer_offsets
quickstart-events
phuc@DESKTOP-DJFD184:~$ |
```

Figure 4: Listing

4.3 Delete a Topic

To delete the quickstart-events topic, run:

```
1 docker run --network automq_net automqinc/automq:latest /bin/bash -c "/
  opt/kafka/kafka/bin/kafka-topics.sh --delete --topic quickstart-
  events --bootstrap-server broker1:9092,broker2:9092"
```

Sending Messages

5.1 Send a Simple Message

Run this command to start a Kafka console producer and send a message to the quickstart-events topic:

```
1 CMD='docker run -it --network automq_net automqinc/automq:latest /bin/
  bash -c "/opt/kafka/kafka/bin/kafka-console-producer.sh --topic
  quickstart-events --bootstrap-server broker1:9092,broker2:9092"'; [
  "$(uname)" = "Linux" ] && eval "sudo $CMD" || eval $CMD
```

```
phuc@DESKTOP-DJFD184:~$ CMD='docker run -it --network automq_net automqinc/aut
mq:latest /bin/bash -c "/opt/kafka/kafka/bin/kafka-console-producer.sh --topic
quickstart-events --bootstrap-server broker1:9092,broker2:9092"'; [ "$(uname)"
= "Linux" ] && eval "sudo $CMD" || eval $CMD
>Hello World!
>Late Coffee@
>

phuc@DESKTOP-DJFD184:~$ docker run --network automq_net automqinc/automq:late
st /bin/bash -c "/opt/kafka/kafka/bin/kafka-console-consumer.sh --topic quickst
art-events --from-beginning --bootstrap-server broker1:9092,broker2:9092"
Hello World!
Late Coffee@
```

Figure 5: Send and Recieve Message

Once the producer is running, type your message (e.g., Hello World!) and press **Enter** to send it.

5.2 Send the Content of a File

To send the content of a file (e.g., smae_results.txt in /home/Username), run:

```
1 CMD='docker run -it --network automq_net -v $(pwd):/mnt automqinc/
  automq:latest /bin/bash -c "cat /mnt/smae_results.txt | /opt/kafka/
  kafka/bin/kafka-console-producer.sh --topic quickstart-events --
  bootstrap-server broker1:9092,broker2:9092"'; [ "$(uname)" = "Linux"
  ] && eval "sudo $CMD" || eval $CMD
```

```

phuc@DESKTOP-DJFD184:~$
phuc@DESKTOP-DJFD184:~$
phuc@DESKTOP-DJFD184:~$
phuc@DESKTOP-DJFD184:~$ CMD='docker run --network automq_net automqinc/automq:latest /bin/bash -c "/opt/kafka/kafka/bin/kafka-topics.sh --create --topic quickstart-events --bootstrap-server broker1:9092,broker2:9092"; [ "$(uname)" = "Linux" ] && eval "sudo $CMD" || eval $CMD'
[sudo] password for phuc:
Created topic quickstart-events.
phuc@DESKTOP-DJFD184:~$ CMD='docker run -it --network automq_net -v $(pwd):/mnt automqinc/automq:latest /bin/bash -c "cat /mnt/smae_results.txt | /opt/kafka/kafka/bin/kafka-console-producer.sh --topic quickstart-events --bootstrap-server broker1:9092,broker2:9092"; [ "$(uname)" = "Linux" ] && eval "sudo $CMD" || eval $CMD'
phuc@DESKTOP-DJFD184:~$

```

```

phuc@DESKTOP-DJFD184:~$
phuc@DESKTOP-DJFD184:~$ docker run --network automq_net automqinc/automq:latest /bin/bash -c "/opt/kafka/kafka/bin/kafka-console-consumer.sh --topic quickstart-events --from-beginning --bootstrap-server broker1:9092,broker2:9092"
Scaled Mean Absolute Error (SMAE): 0.889
SMAE values per feature:
AGE: 0.932
DEGREE: 0.868
RINCOME: 0.944
CLASS: 0.872
SATJOB: 0.927
WEKSWRK: 0.780
HAPPY: 0.963
HEALTH: 0.906

```

Figure 6: smae_results.txt

5.3 Send a CSV File

To send the content of a CSV file (e.g., imputed_data.csv), run:

- 1 `CMD='docker run -it --network automq_net -v $(pwd):/mnt automqinc/automq:latest /bin/bash -c "cat /mnt/imputed_data.csv | /opt/kafka/kafka/bin/kafka-console-producer.sh --topic quickstart-events --bootstrap-server broker1:9092,broker2:9092"; ["$(uname)" = "Linux"] && eval "sudo $CMD" || eval $CMD'`

```

localhost 9095 broker http://10.6.0.2:4566 /tmp/kraft-combined-logs/s3wal automq-data us-east-1
Installed Containers
Container Name Description
-----
controller Kafka Controller
broker1 Kafka Broker
broker2 Kafka Broker
aws-cli You can use the AWS SDK to create an S3 bucket on a local S3 service like LocalStack.
localstack A fully functional local AWS cloud stack. Develop and test your cloud & Serverless apps offline
AutoMQ has been successfully installed. You can now access AutoMQ from the bootstrap server address.
for Docker:
broker1:9092,broker2:9092
for Localhost:
localhost:9094,localhost:9095

anhquan2682001@DESKTOP-3FK4VM9:~$ CMD='docker run --network automq_net automqinc/automq:latest /bin/bash -c "/opt/kafka/kafka/bin/kafka-topics.sh --create --topic quickstart-events --bootstrap-server broker1:9092,broker2:9092"; [ "$(uname)" = "Linux" ] && eval "sudo $CMD" || eval $CMD'
[sudo] password for anhquan2682001:
Sorry, try again.
[sudo] password for anhquan2682001:
Created topic quickstart-events.
anhquan2682001@DESKTOP-3FK4VM9:~$ ls
automq_env imputed_data.csv node smae_results.txt snap www
anhquan2682001@DESKTOP-3FK4VM9:~$ CMD='docker run -it --network automq_net -v $(pwd):/mnt automqinc/automq:latest /bin/bash -c "cat /mnt/imputed_data.csv > /mnt/output.csv && cat /mnt/imputed_data.csv > /mnt/output.txt"; [ "$(uname)" = "Linux" ] && eval "sudo $CMD" || eval $CMD'
anhquan2682001@DESKTOP-3FK4VM9:~$ CMD='docker run -it --network automq_net -v $(pwd):/mnt automqinc/automq:latest /bin/bash -c "cat /mnt/imputed_data.csv > /mnt/output.csv && cat /mnt/imputed_data.csv > /mnt/output.txt"; [ "$(uname)" = "Linux" ] && eval "sudo $CMD" || eval $CMD'
anhquan2682001@DESKTOP-3FK4VM9:~$ CMD='docker run -it --network automq_net automqinc/automq:latest /bin/bash -c "/opt/kafka/kafka/bin/kafka-console-producer.sh --topic quickstart-events --bootstrap-server broker1:9092,broker2:9092"; [ "$(uname)" = "Linux" ] && eval "sudo $CMD" || eval $CMD'
^C^C^Canhquan2682001@DESKTOP-3FK4VM9:~$ ^C
anhquan2682001@DESKTOP-3FK4VM9:~$ ^M
: command not found
anhquan2682001@DESKTOP-3FK4VM9:~$
anhquan2682001@DESKTOP-3FK4VM9:~$ CMD='docker run -it --network automq_net -v $(pwd):/mnt automqinc/automq:latest /bin/bash -c "cat /mnt/smae_results.txt | /opt/kafka/kafka/bin/kafka-console-producer.sh --topic quickstart-events --bootstrap-server broker1:9092,broker2:9092"; [ "$(uname)" = "Linux" ] && eval "sudo $CMD" || eval $CMD'
anhquan2682001@DESKTOP-3FK4VM9:~$ CMD='docker run -it --network automq_net -v $(pwd):/mnt automqinc/automq:latest /bin/bash -c "cat /mnt/imputed_data.csv | /opt/kafka/kafka/bin/kafka-console-producer.sh --topic quickstart-events --bootstrap-server broker1:9092,broker2:9092"; [ "$(uname)" = "Linux" ] && eval "sudo $CMD" || eval $CMD'
anhquan2682001@DESKTOP-3FK4VM9:~$

```

```

anhquan2682001@DESKTOP-3FK4VM9:~$ docker run --network automq_net automqinc/automq:latest /bin/bash -c "/opt/kafka/kafka/bin/kafka-console-consumer.sh --topic quickstart-events --from-beginning --bootstrap-server broker1:9092,broker2:9092"
^
what
Scaled Mean Absolute Error (SMAE): 0.889
SMAE values per feature:
AGE: 0.932
DEGREE: 0.868
RINCOME: 0.944
CLASS: 0.872
SATJOB: 0.927
WEKSWRK: 0.780
HAPPY: 0.963
HEALTH: 0.906
AGE DEGREE RINCOME CLASS SATJOB WEKSWRK HAPPY HEALTH
53.0,3.0,12.0,3.0,3.0,52.0,3.0,4.0
26.0,3.0,12.0,3.0,3.0,52.0,3.0,4.0
59.0,1.0,12.0,2.0,4.0,13.0,2.0,3.0
56.0,3.0,9.0,3.0,4.0,52.0,3.0,4.0
74.0,3.0,12.0,3.0,4.0,46.0,3.0,4.0
56.0,3.0,12.0,3.0,3.0,52.0,2.0,4.0
63.0,1.0,12.0,3.0,4.0,52.0,2.0,3.0
34.0,4.0,12.0,2.0,3.0,52.0,3.0,4.0
52.0,0.0,8.0,1.0,3.0,0.0,1.0,1.0
30.0,2.0,12.0,2.0,4.0,52.0,3.0,4.0
43.0,0.0,9.0,2.0,2.0,0.0,2.0,2.0
58.0,0.0,10.0,2.0,3.0,0.0,2.0,1.0
69.0,0.0,11.0,2.0,4.0,0.0,2.0,3.0
40.0,1.0,12.0,2.0,3.0,52.0,2.0,3.0
25.0,1.0,12.0,2.0,3.0,52.0,2.0,3.0
56.0,1.0,11.0,2.0,4.0,40.0,2.0,3.0
51.0,1.0,12.0,1.0,4.0,52.0,2.0,4.0
45.0,1.0,12.0,2.0,4.0,52.0,2.0,3.0
51.0,0.0,11.0,2.0,3.0,52.0,2.0,3.0
19.0,0.0,6.0,3.0,3.0,52.0,2.0,4.0
30.0,1.0,11.0,3.0,4.0,52.0,3.0,4.0
36.0,0.0,10.0,3.0,3.0,0.0,3.0,3.0
42.0,1.0,11.0,2.0,1.0,6.0,2.0,3.0
38.0,1.0,9.0,1.0,3.0,0.0,2.0,4.0
38.0,1.0,12.0,2.0,3.0,52.0,2.0,3.0
28.0,4.0,12.0,3.0,2.0,46.0,1.0,4.0
35.0,1.0,11.0,3.0,3.0,52.0,2.0,3.0
57.0,3.0,12.0,2.0,2.0,52.0,2.0,3.0
50.0,1.0,12.0,3.0,4.0,52.0,1.0,3.0
54.0,3.0,12.0,2.0,2.0,50.0,1.0,4.0
58.0,3.0,12.0,3.0,3.0,0.0,2.0,3.0
61.0,3.0,12.0,3.0,3.0,52.0,2.0,3.0
54.0,3.0,12.0,3.0,1.0,40.0,2.0,3.0
47.0,3.0,12.0,2.0,3.0,52.0,1.0,3.0
53.0,1.0,11.0,2.0,3.0,0.0,1.0,2.0
37.0,1.0,11.0,2.0,3.0,52.0,3.0,3.0

```

Figure 7: txt & csv file

Consuming Messages

Run this command to start a Kafka console consumer and read messages from the quickstart-events topic:

- 1 `docker run --network automq_net automqinc/automq:latest /bin/bash -c "/opt/kafka/kafka/bin/kafka-console-consumer.sh --topic quickstart-events --from-beginning --bootstrap-server broker1:9092,broker2:9092"`

This will display all messages sent to the topic from the beginning.

```
phuc@DESKTOP-DJFD184:~$ CMD='docker run -it --network automq_net automqinc/automq:latest /bin/bash -c "/opt/kafka/kafka/bin/kafka-console-producer.sh --topic quickstart-events --bootstrap-server broker1:9092,broker2:9092"; [ "$(uname)" = "Linux" ] && eval "sudo $CMD" || eval $CMD'
>Hello World!
>Late Coffee@
>

phuc@DESKTOP-DJFD184:~$ docker run --network automq_net automqinc/automq:latest /bin/bash -c "/opt/kafka/kafka/bin/kafka-console-consumer.sh --topic quickstart-events --from-beginning --bootstrap-server broker1:9092,broker2:9092"
Hello World!
Late Coffee@
```

Figure 8: Recive message

Stopping and Uninstalling AutoMQ

To stop and uninstall the AutoMQ cluster, run the following command:

```
1 curl https://download.automq.com/community_edition/
  standalone_deployment/stop_uninstall.sh | bash
```

```
phuc@DESKTOP-DJFD184:~$ curl https://download.automq.com/community_edition/standalone_deployment/stop_uninstall.sh | bash
% Total    % Received % Xferd  Average Speed   Time    Time     Time  Current
           Dload  Upload   Total   Spent    Left   Speed
100 1031 100 1031    0     0  5189      0 --:--:-- --:--:-- --:--:-- 5207
WARN[0000] /tmp/automq-standalone-deployment/docker-compose.yaml: the attribute 'version' is obsolete, it will be ignored, please remove it to avoid potential confusion
[+] Running 1/2
  Container broker1 Stopping14.4s
[+] Running 7/7
  Container broker2 Removed5.5s
  Container broker1 Removed121.9s
  Container broker2 Removed5.5s
  Container controller Removed10.3s
  Container ans-cli Removed0.1s
  Container localstack Removed6.8s
  Volume automq-standalone-deployment_s3_data Removed0.0s
  Network automq_net Removed0.8s
AutoMQ has been uninstalled successfully.
If you have any comments or suggestions, please share them with us on https://github.com/AutoMQ/automq/issues. Your feedback is important to us, and we will use it to make necessary improvements.
phuc@DESKTOP-DJFD184:~$
```

Figure 9: Stop and Uninstalling AutoMQ

Additional Tips

- **Verify Installation:** After installation, ensure all containers are running using:

```
1 docker ps
2
```

- **Check Logs:** To troubleshoot, check logs for a specific container (e.g., controller):

```
1 docker logs <container_name>
2
```

Troubleshooting

Common Issues and Solutions

Issue	Solution
Docker containers fail to start	Ensure Docker is installed and running. Restart Docker if necessary.
Messages not being consumed	Check topic configuration and ensure messages are sent to the correct topic.
File content not being sent	Verify file path and ensure correct volume mounting in the Docker command.
AutoMQ cluster not starting properly	Review installation logs and check network settings.

Resources and Support

- **Documentation:** [AutoMQ Official Documentation](#)