***BÁO CÁO TÀI LIỆU***

**CÀI ĐẶT CONFLUENT PLATFORM 3 NODE BROKER, 3 NODE ZOOKEEPER, 1 NODE SCHEMA REGISTRY, 1 NODE KAFKA CONNECT, 1 NODE KSQLDB, 1 NODE CONTROL CENTER ( NON-AUTHEN)**

1.Các package cần chuẩn bị:

1.1 Java version 17.0.10:

|  |
| --- |
| mkdir -p /data/confluent/java-17 |

|  |
| --- |
| cd /data/confluent/java-17 |

|  |
| --- |
| wget [https://download.oracle.com/java/17/archive/ jdk-17.0.10\_linux-x64\_bin.rpm](https://download.oracle.com/java/17/archive/jdk-17.0.10_linux-x64_bin.rpm) |

|  |
| --- |
| rpm -ivh jdk-17.0.10\_linux-x64\_bin.rpm |

|  |
| --- |
| java -version |

( Nếu version java không phải 17.0.10 thì thực hiện tập lệnh sau để thay đổi version)

|  |
| --- |
| update-alternatives –config java |

1.2 20 Package confluent:

|  |
| --- |
| mkdir -p /data/confluent/package-rpm/ |

|  |
| --- |
| cd /data/confluent/package-rpm/ |

|  |
| --- |
| wget https://packages.confluent.io/rpm/7.5/confluent-ce-kafka-http-server-7.5.3-1.noarch.rpm  wget https://packages.confluent.io/rpm/7.5/confluent-common-7.5.3-1.noarch.rpm  wget https://packages.confluent.io/rpm/7.5/confluent-control-center-7.5.3-1.noarch.rpm  wget https://packages.confluent.io/rpm/7.5/confluent-control-center-fe-7.5.3-1.noarch.rpm  wget https://packages.confluent.io/rpm/7.5/confluent-hub-client-7.5.3-1.noarch.rpm  wget https://packages.confluent.io/rpm/7.5/confluent-kafka-connect-replicator-7.5.3-1.noarch.rpm  wget https://packages.confluent.io/rpm/7.5/confluent-kafka-mqtt-7.5.3-1.noarch.rpm  wget https://packages.confluent.io/rpm/7.5/confluent-kafka-rest-7.5.3-1.noarch.rpm  wget https://packages.confluent.io/rpm/7.5/confluent-ksqldb-7.5.3-1.noarch.rpm  wget https://packages.confluent.io/rpm/7.5/confluent-metadata-service-7.5.3-1.noarch.rpm  wget https://packages.confluent.io/rpm/7.5/confluent-platform-7.5.3-1.noarch.rpm  wget https://packages.confluent.io/rpm/7.5/confluent-rebalancer-7.5.3-1.noarch.rpm  wget https://packages.confluent.io/rpm/7.5/confluent-rest-utils-7.5.3-1.noarch.rpm  wget https://packages.confluent.io/rpm/7.5/confluent-schema-registry-7.5.3-1.noarch.rpm  wget https://packages.confluent.io/rpm/7.5/confluent-schema-registry-plugins-7.5.3-1.noarch.rpm  wget https://packages.confluent.io/rpm/7.5/confluent-security-7.5.3-1.noarch.rpm  wget https://packages.confluent.io/rpm/7.5/confluent-server-7.5.3-1.noarch.rpm  wget https://packages.confluent.io/rpm/7.5/confluent-server-rest-7.5.3-1.noarch.rpm  wget https://packages.confluent.io/rpm/7.5/confluent-telemetry-7.5.3-1.noarch.rpm  wget https://packages.confluent.io/rpm/7.5/confluent-cli-7.5.3-1.x86\_64.rpm |

|  |
| --- |
| rpm -ivh \*.rpm |

(Để kiểm tra các gói đã được cài đặt chưa sử dụng tập lệnh sau)

|  |
| --- |
| rpm -qa | grep confluent |

1.3 Edit file ./.bash\_profile:

|  |
| --- |
| cd  vi ./.bash\_profile |

|  |
| --- |
| export ZOOKEEPER\_ROOT\_DIR=/data/confluent/apps/zookeeper  export ZOOKEEPER\_ROOT\_CONFIG\_DIR=/etc/kafka  export BASE\_DIR=/bin  export BROKER\_ROOT\_DIR=/data/confluent/apps/kafka  export BROKER\_ROOT\_CONFIG\_DIR=/etc/kafka  export BASE\_DIR=/bin  export SCHEMA\_ROOT\_DIR=/data/confluent/apps/schema-registry  export SCHEMA\_ROOT\_CONFIG\_DIR=/etc/schema-registry  export BASE\_DIR=/bin  export CONNECT\_ROOT\_DIR=/data/confluent/apps/connect  export CONNECT\_ROOT\_CONFIG\_DIR=/etc/kafka  export BASE\_DIR=/bin  export KSQLDB\_ROOT\_DIR=/data/confluent/apps/ksqldb  export KSQLDB\_ROOT\_CONFIG\_DIR=/etc/ksqldb  export BASE\_DIR=/bin  export C3\_ROOT\_DIR=/data/confluent/apps/control-center  export C3\_ROOT\_CONFIG\_DIR=/etc/confluent-control-center  export BASE\_DIR=/bin |

1.4: Tạo group confluent:

|  |
| --- |
| groupadd confluent |

2. Cài đặt Confluent Zookeeper:

2.1: Tạo folder chứa data, logs và gán quyền:

|  |
| --- |
| mkdir -p $ZOOKEEPER\_ROOT\_DIR/{data,logs}  chown -R cp-kafka:confluent $ZOOKEEPER\_ROOT\_DIR  echo 1 > $ZOOKEEPER\_ROOT\_DIR/data/myid  ll $ZOOKEEPER\_ROOT\_DIR |

(Làm tương tự với node 2,3, thay nội dung trong file myid là 2,3 tương ứng với mỗi node)

2.2 Cấu hình file log4j của Zookeeper:

|  |
| --- |
| echo “log4j.rootLogger=INFO,zkAppender  log4j.appender.zkAppender=org.apache.log4j.DailyRollingFileAppender  log4j.appender.zkAppender.DatePattern='.'yyyy-MM-dd-HH  log4j.appender.zkAppender.File=/data/confluent/apps/zookeeper/logs/zookeeper.log  log4j.appender.zkAppender.layout=org.apache.log4j.PatternLayout  log4j.appender.zkAppender.layout.ConversionPattern=[%d] %p %m (%c)%n  log4j.appender.cleanerAppender.MaxFileSize=1024MB” > $ZOOKEEPER\_ROOT\_CONFIG\_DIR/zookeeper-log4j.properties |

|  |
| --- |
| cat $ZOOKEEPER\_ROOT\_CONFIG\_DIR/zookeeper-log4j.properties |

(Làm tương tự với node 2,3)

2.3 Cấu hình file service của Zookeeper:

|  |
| --- |
| cp /usr/lib/systemd/system/confluent-zookeeper.service /usr/lib/systemd/system/confluent-zookeeper.service.backup |

|  |
| --- |
| sed -i '/^Group=confluent/cGroup=confluent\nEnvironment="LOG\_DIR=/data/confluent/apps/zookeeper/logs" "KAFKA\_LOG4J\_OPTS=-Dlog4j.configuration=file:/etc/kafka/zookeeper-log4j.properties" "KAFKA\_HEAP\_OPTS=-Xmx2G -Xms2G"' /usr/lib/systemd/system/confluent-zookeeper.service |

|  |
| --- |
| systemctl daemon-reload |

|  |
| --- |
| cat /usr/lib/systemd/system/confluent-zookeeper.service | grep Env |

(Làm tương tự với node 2,3)

2.4 Cấu hình file properties của Zookeeper:

|  |
| --- |
| mv $ZOOKEEPER\_ROOT\_CONFIG\_DIR/zookeeper.properties $ZOOKEEPER\_ROOT\_CONFIG\_DIR/zookeeper.properties.backup |

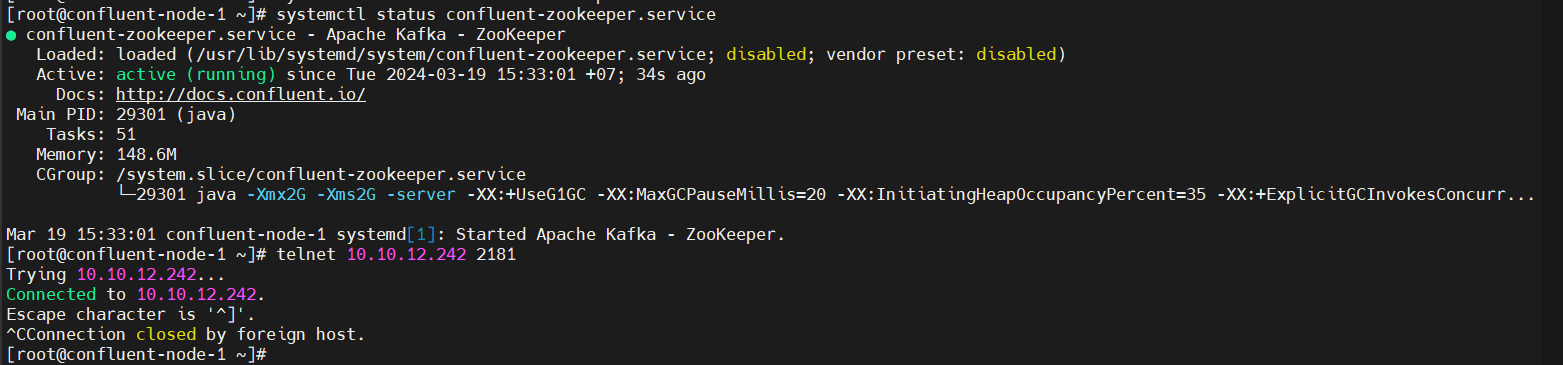
|  |
| --- |
| vi $ZOOKEEPER\_ROOT\_CONFIG\_DIR/zookeeper.properties |

|  |
| --- |
| dataDir=/data/confluent/apps/zookeeper/data  clientPort=2181  maxClientCnxns=60  admin.enableServer=false  server.1=10.10.12.241:2888:3888  server.2=10.10.12.242:2888:3888  server.3=10.10.12.244:2888:3888  initLimit=10  syncLimit=5  autopurge.snapRetainCount=3  autopurge.purgeInterval=24 |

(Làm tương tự với node 2,3)

2.5 Khởi động service Zookeeper:

|  |
| --- |
| systemctl start confluent-zookeeper.service    systemctl status confluent-zookeeper.service  tail -1000f /data/confluent/apps/zookeeper/logs/zookeeper.log  telnet 10.10.12.241 2181  (nếu chưa có telnet thì : yum -y install telnet) |



(LÀM TƯƠNG TỰ VỚI NODE 2,3)

3. Cài đặt Confluent Server:

3.1 Khởi tạo file data,logs của broker:

|  |
| --- |
| mkdir -p $BROKER\_ROOT\_DIR/{data,logs}  chown -R cp-kafka:confluent $BROKER\_ROOT\_DIR  ll $BROKER\_ROOT\_DIR |

3.2 Cấu hình file service của Broker:

|  |
| --- |
| cp /usr/lib/systemd/system/confluent-server.service /usr/lib/systemd/system/confluent-zookeeper.server.backup |

|  |
| --- |
| sed -i '/^Group=confluent/cGroup=confluent\nEnvironment="LOG\_DIR='$BROKER\_ROOT\_DIR'/logs" "KAFKA\_LOG4J\_OPTS=-Dlog4j.configuration=file:'$BROKER\_ROOT\_CONFIG\_DIR'/log4j.properties" "KAFKA\_HEAP\_OPTS=-Xms6g -Xmx12g -XX:MetaspaceSize=96m -XX:+UseG1GC -XX:MaxGCPauseMillis=20 -XX:InitiatingHeapOccupancyPercent=35 -XX:G1HeapRegionSize=16M -XX:MinMetaspaceFreeRatio=50 -XX:MaxMetaspaceFreeRatio=80"' /usr/lib/systemd/system/confluent-server.service |

|  |
| --- |
| systemctl daemon-reload  cat /usr/lib/systemd/system/confluent-server.service | grep Env |

(Làm tương tự với node 2,3)

3.3 Cấu hình file properties của Server:

|  |
| --- |
| mv $BROKER\_ROOT\_CONFIG\_DIR/server.properties $BROKER\_ROOT\_CONFIG\_DIR/server.properties.backup |

|  |
| --- |
| vi $BROKER\_ROOT\_CONFIG\_DIR/server.properties |

|  |
| --- |
| broker.id=1  listeners=EXTERNAL://10.10.12.241:9092,INTERNAL://10.10.12.241:9095  listener.security.protocol.map=EXTERNAL:PLAINTEXT,INTERNAL:PLAINTEXT  inter.broker.listener.name=INTERNAL  num.network.threads=3  num.io.threads=8  socket.send.buffer.bytes=102400  socket.receive.buffer.bytes=102400  socket.request.max.bytes=104857600  log.dirs=/data/confluent/apps/kafka/data  num.partitions=15  num.recovery.threads.per.data.dir=1  offsets.topic.replication.factor=2  transaction.state.log.replication.factor=2  transaction.state.log.min.isr=2  log.retention.hours=72  log.segment.bytes=1073741824  log.retention.check.interval.ms=300000  zookeeper.connect=10.10.12.241:2181,10.10.12.242:2181,10.10.12.244:2181  zookeeper.connection.timeout.ms=18000  metric.reporters=io.confluent.metrics.reporter.ConfluentMetricsReporter  confluent.metrics.reporter.bootstrap.servers=10.10.12.241:9092,10.10.12.242:9092,10.10.12.244:9092  confluent.metrics.reporter.topic.replicas=3  group.initial.rebalance.delay.ms=0  confluent.license.topic.replication.factor=3  confluent.metadata.topic.replication.factor=1  confluent.security.event.logger.exporter.kafka.topic.replicas=1  confluent.balancer.enable=true  confluent.balancer.topic.replication.factor=3  confluent.license=eyJ0eXAiOiJKV1QiLCJhbGciOiJSUzI1NiJ9.eyJzdWIiOiJjb250cm9sLWNlbnRlciIsIm5iNCI6IjE2OTU2MTM1ODEiLCJtb25pdG9yaW5nIjp0cnVlLCJsaWNlbnNlVHlwZSI6IkVudGVycHJpc2UiLCJpc3MiOiJDb25mbHVlbnQiLCJpYXQiOjE2OTM1NTE2MDAsImV4cCI6MTc5NTkzNTYwMCwiYXVkIjoiMDA2NFUwMDAwMHNxallQUUFZIn0=.Rjm0el5v7BKbC\_jcu\_lmuHQeoAhKQ3xP4MM1KSl8wo7859OogL954nO2BbNos3OwplXbvuu7\_IsSFyf8UBFK2zUtHV8elCfcIcAxu0uE-pMhYZoBuq\_OXePvrBfRs8TaJOzXq6CcdSrkekL-Ym7epXOO4YOWQzJXLU6GzVcOVDv8bTMEYtVHw-lE3nOYa7rLci9UiKKWex5u4hLdCJMvSNIFhOz5xm5WcGhhSv8mpZJapaVfcxJ5585\_xQ-w\_0QnG-mcLKDhNOkBfG97DId93KC4MIKQe1Cgs-zFpGXqgNajg75aqNxj7WgPcqrrbJSWIirFgD1IKR2oXaXR2m8FWw  message.max.bytes=10485760  default.replication.factor=3 |

(Cấu hình file server.properties của Node 2)

|  |
| --- |
| broker.id=2  listeners=EXTERNAL://10.10.12.242:9092,INTERNAL://10.10.12.242:9095  listener.security.protocol.map=EXTERNAL:PLAINTEXT,INTERNAL:PLAINTEXT  inter.broker.listener.name=INTERNAL  num.network.threads=3  num.io.threads=8  socket.send.buffer.bytes=102400  socket.receive.buffer.bytes=102400  socket.request.max.bytes=104857600  log.dirs=/data/confluent/apps/kafka/data  num.partitions=15  num.recovery.threads.per.data.dir=1  offsets.topic.replication.factor=2  transaction.state.log.replication.factor=2  transaction.state.log.min.isr=2  log.retention.hours=72  log.segment.bytes=1073741824  log.retention.check.interval.ms=300000  zookeeper.connect=10.10.12.241:2181,10.10.12.242:2181,10.10.12.244:2181  zookeeper.connection.timeout.ms=18000  metric.reporters=io.confluent.metrics.reporter.ConfluentMetricsReporter  confluent.metrics.reporter.bootstrap.servers=10.10.12.241:9092,10.10.12.242:9092,10.10.12.244:9092  confluent.metrics.reporter.topic.replicas=3  group.initial.rebalance.delay.ms=0  confluent.license.topic.replication.factor=3  confluent.metadata.topic.replication.factor=1  confluent.security.event.logger.exporter.kafka.topic.replicas=1  confluent.balancer.enable=true  confluent.balancer.topic.replication.factor=3  confluent.license=eyJ0eXAiOiJKV1QiLCJhbGciOiJSUzI1NiJ9.eyJzdWIiOiJjb250cm9sLWNlbnRlciIsIm5iNCI6IjE2OTU2MTM1ODEiLCJtb25pdG9yaW5nIjp0cnVlLCJsaWNlbnNlVHlwZSI6IkVudGVycHJpc2UiLCJpc3MiOiJDb25mbHVlbnQiLCJpYXQiOjE2OTM1NTE2MDAsImV4cCI6MTc5NTkzNTYwMCwiYXVkIjoiMDA2NFUwMDAwMHNxallQUUFZIn0=.Rjm0el5v7BKbC\_jcu\_lmuHQeoAhKQ3xP4MM1KSl8wo7859OogL954nO2BbNos3OwplXbvuu7\_IsSFyf8UBFK2zUtHV8elCfcIcAxu0uE-pMhYZoBuq\_OXePvrBfRs8TaJOzXq6CcdSrkekL-Ym7epXOO4YOWQzJXLU6GzVcOVDv8bTMEYtVHw-lE3nOYa7rLci9UiKKWex5u4hLdCJMvSNIFhOz5xm5WcGhhSv8mpZJapaVfcxJ5585\_xQ-w\_0QnG-mcLKDhNOkBfG97DId93KC4MIKQe1Cgs-zFpGXqgNajg75aqNxj7WgPcqrrbJSWIirFgD1IKR2oXaXR2m8FWw  message.max.bytes=10485760  default.replication.factor=3 |

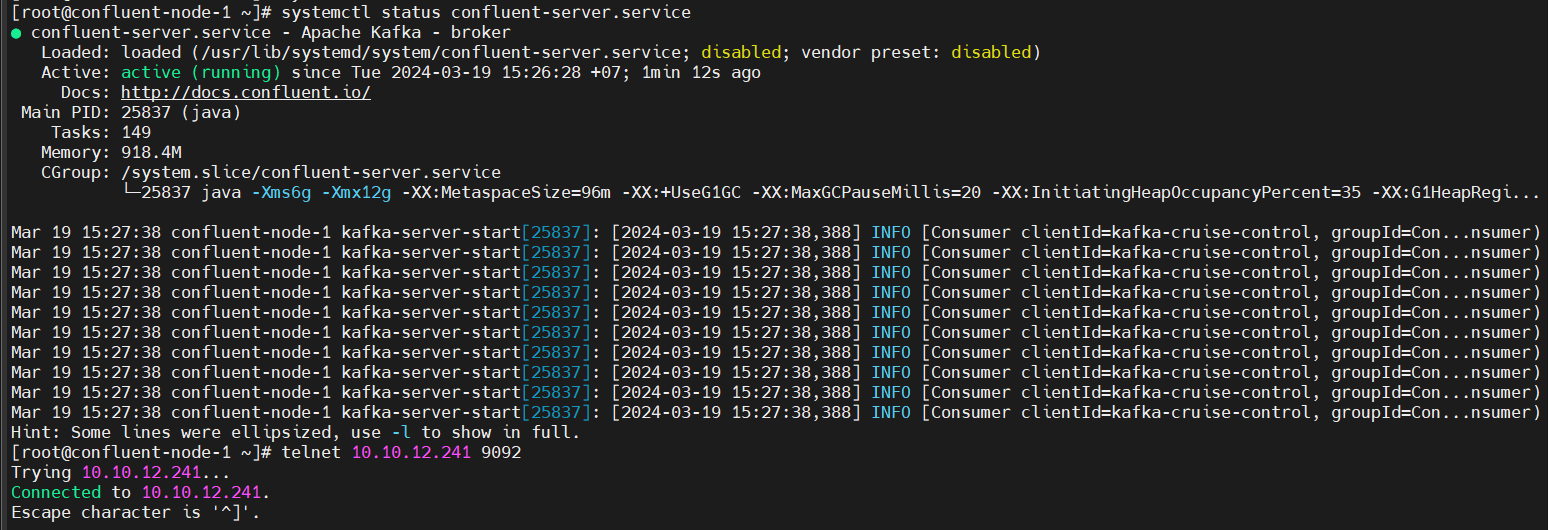
(Cấu hình file server.properties của node 3)

|  |
| --- |
| broker.id=3  listeners=EXTERNAL://10.10.12.244:9092,INTERNAL://10.10.12.244:9095  listener.security.protocol.map=EXTERNAL:PLAINTEXT,INTERNAL:PLAINTEXT  inter.broker.listener.name=INTERNAL  num.network.threads=3  num.io.threads=8  socket.send.buffer.bytes=102400  socket.receive.buffer.bytes=102400  socket.request.max.bytes=104857600  log.dirs=/data/confluent/apps/kafka/data  num.partitions=15  num.recovery.threads.per.data.dir=1  offsets.topic.replication.factor=2  transaction.state.log.replication.factor=2  transaction.state.log.min.isr=2  log.retention.hours=72  log.segment.bytes=1073741824  log.retention.check.interval.ms=300000  zookeeper.connect=10.10.12.241:2181,10.10.12.242:2181,10.10.12.113:2181  zookeeper.connection.timeout.ms=18000  metric.reporters=io.confluent.metrics.reporter.ConfluentMetricsReporter  confluent.metrics.reporter.bootstrap.servers=10.10.12.241:9092,10.10.12.242:9092,10.10.12.244:9092  confluent.metrics.reporter.topic.replicas=3  group.initial.rebalance.delay.ms=0  confluent.license.topic.replication.factor=3  confluent.metadata.topic.replication.factor=1  confluent.security.event.logger.exporter.kafka.topic.replicas=1  confluent.balancer.enable=true  confluent.balancer.topic.replication.factor=3  confluent.license=eyJ0eXAiOiJKV1QiLCJhbGciOiJSUzI1NiJ9.eyJzdWIiOiJjb250cm9sLWNlbnRlciIsIm5iNCI6IjE2OTU2MTM1ODEiLCJtb25pdG9yaW5nIjp0cnVlLCJsaWNlbnNlVHlwZSI6IkVudGVycHJpc2UiLCJpc3MiOiJDb25mbHVlbnQiLCJpYXQiOjE2OTM1NTE2MDAsImV4cCI6MTc5NTkzNTYwMCwiYXVkIjoiMDA2NFUwMDAwMHNxallQUUFZIn0=.Rjm0el5v7BKbC\_jcu\_lmuHQeoAhKQ3xP4MM1KSl8wo7859OogL954nO2BbNos3OwplXbvuu7\_IsSFyf8UBFK2zUtHV8elCfcIcAxu0uE-pMhYZoBuq\_OXePvrBfRs8TaJOzXq6CcdSrkekL-Ym7epXOO4YOWQzJXLU6GzVcOVDv8bTMEYtVHw-lE3nOYa7rLci9UiKKWex5u4hLdCJMvSNIFhOz5xm5WcGhhSv8mpZJapaVfcxJ5585\_xQ-w\_0QnG-mcLKDhNOkBfG97DId93KC4MIKQe1Cgs-zFpGXqgNajg75aqNxj7WgPcqrrbJSWIirFgD1IKR2oXaXR2m8FWw  message.max.bytes=10485760  default.replication.factor=3 |

3.4. Khởi động Confluent-server:

|  |
| --- |
| systemctl start confluent-server.service  systemctl status confluent-server.service  tail -1000f /data/confluent/apps/kafka/logs/server.log  telnet 10.10.12.241 9092 |

(Làm tương tự với Node 2, 3)



4. Cài đặt Schema-registry:

4.1: Tạo folder lưu data,log và cấp quyền:

|  |
| --- |
| mkdir -p $SCHEMA\_ROOT\_DIR/{logs}  chown -R cp-schema-registry:confluent $SCHEMA\_ROOT\_DIR  ll $SCHEMA\_ROOT\_DIR |

4.2 Cấu hình file service cho Schema registry:

|  |
| --- |
| cp /usr/lib/systemd/system/confluent-schema-registry.service /usr/lib/systemd/system/confluent-schema-registry.service.backup |

|  |
| --- |
| sed -i 's|^Env.\*|Environment="LOG\_DIR='$SCHEMA\_ROOT\_DIR'/logs" "SCHEMA\_REGISTRY\_HEAP\_OPTS=-Xmx2G"|' /usr/lib/systemd/system/confluent-schema-registry.service |

|  |
| --- |
| systemctl daemon-reload  cat /usr/lib/systemd/system/confluent-schema-registry.service | grep Env |

4.3 Cấu hình file properties của Schema-registry:

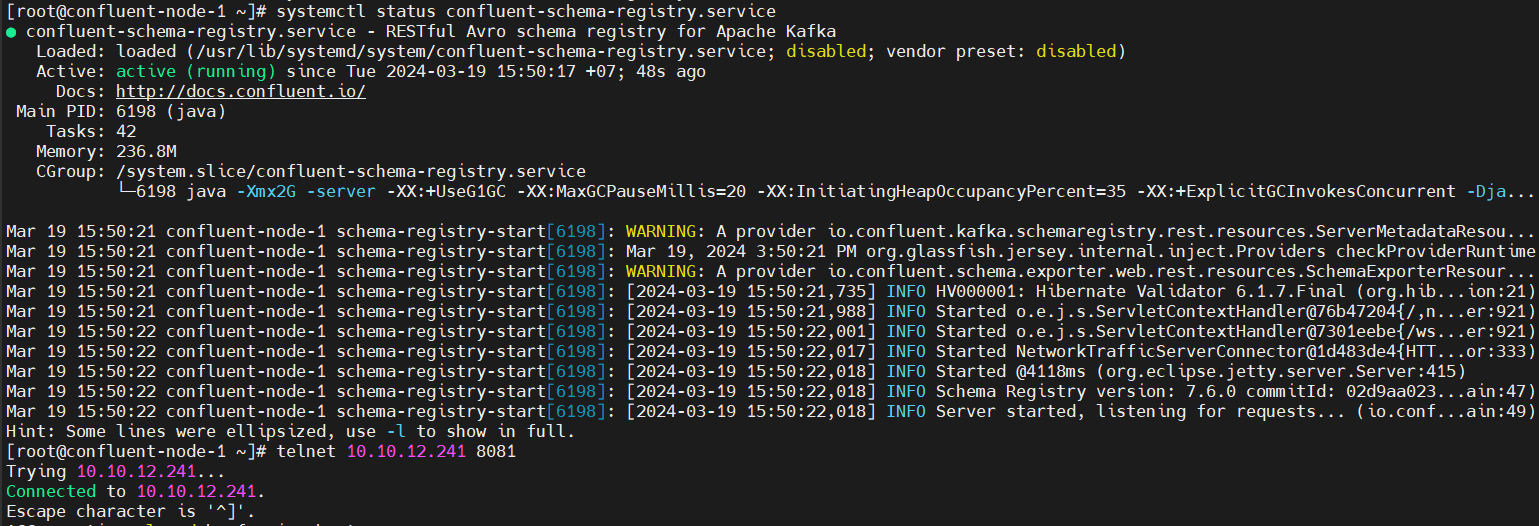
|  |
| --- |
| mv $SCHEMA\_ROOT\_CONFIG\_DIR/schema-registry.properties $SCHEMA\_ROOT\_CONFIG\_DIR/schema-registry.properties.backup |

|  |
| --- |
| vi $SCHEMA\_ROOT\_CONFIG\_DIR/schema-registry.properties |

|  |
| --- |
| listeners=http://0.0.0.0:8081  kafkastore.bootstrap.servers=10.10.12.241:9092,10.10.12.242:9092,10.10.12.244:9092  debug=false  resource.extension.class=io.confluent.schema.exporter.SchemaExporterResourceExtension  kafkastore.update.handlers=io.confluent.schema.exporter.storage.SchemaExporterUpdateHandler |

4.4 Khởi động Confluent-Schema-Registry:

|  |
| --- |
| systemctl start confluent-schema-registry.service  systemctl status confluent-schema-registry.service  tail -1000f /data/confluent/apps/schema-registry/logs/schema-registry.log  telnet 10.10.12.241 8081 |



5. Cài đặt kafka connect:

5.1 Tạo thư mục data và logs để chứa dữ liệu:

|  |
| --- |
| mkdir -p $CONNECT\_ROOT\_DIR/{connectors,logs}  chown -R cp-kafka-connect: $CONNECT\_ROOT\_DIR  ll $CONNECT\_ROOT\_DIR |

5.2 Cấu hình file service của Kafka connect:

|  |
| --- |
| cp /usr/lib/systemd/system/confluent-kafka-connect.service /usr/lib/systemd/system/confluent-kafka-connect.server.backup |

|  |
| --- |
|  |

|  |
| --- |
| sed -i '/^Group=confluent/cGroup=confluent\nEnvironment="LOG\_DIR='$CONNECT\_ROOT\_DIR'/logs" "KAFKA\_LOG4J\_OPTS=-Dlog4j.configuration=file:'$CONNECT\_ROOT\_CONFIG\_DIR'/connect-log4j.properties" "KAFKA\_HEAP\_OPTS=-Xms1g -Xmx2g"' /usr/lib/systemd/system/confluent-kafka-connect.service |

|  |
| --- |
| systemctl daemon-reload  cat /usr/lib/systemd/system/confluent-kafka-connect.service | grep Env |

5.3 Cấu hình file properties của kafka connect:

|  |
| --- |
| mv $CONNECT\_ROOT\_CONFIG\_DIR/connect-distributed.properties $CONNECT\_ROOT\_CONFIG\_DIR/connect-distributed.properties.backup |

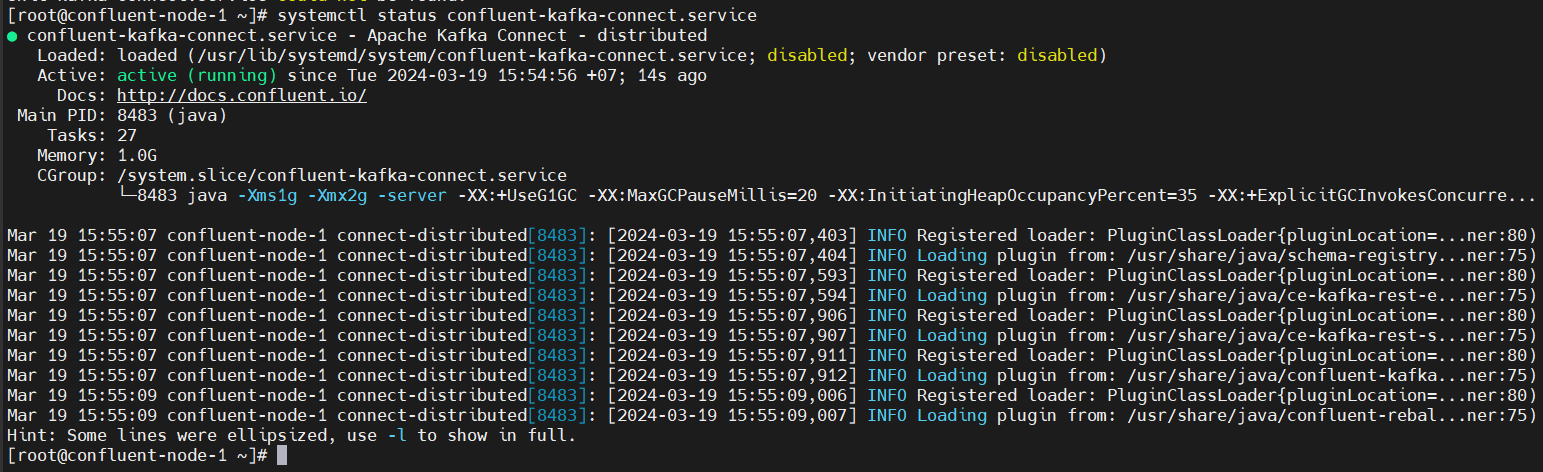
|  |
| --- |
| vi $CONNECT\_ROOT\_CONFIG\_DIR/connect-distributed.properties |

|  |
| --- |
| bootstrap.servers=10.10.12.241:9092,10.10.12.242:9092,10.10.12.113:9092  group.id=mcredit-connect-cluster  key.converter=org.apache.kafka.connect.json.JsonConverter  value.converter=org.apache.kafka.connect.json.JsonConverter  key.converter.schemas.enable=true value.converter.schemas.enable=true  offset.storage.topic=connect-offsets-mcredit-prod  offset.storage.replication.factor=1  config.storage.topic=connect-configs-mcredit-prod  config.storage.replication.factor=1  status.storage.topic=connect-status-mcredit-prod  status.storage.replication.factor=1  offset.flush.interval.ms=10000  plugin.path=/usr/share/java,/data/confluent/apps/connect/connectors |

|  |
| --- |
| mkdir -p /usr/share/java |

5.4 Khởi động Kafka connect:

|  |
| --- |
| systemctl start confluent-kafka-connect.service  systemctl status confluent-kafka-connect.service  tail -1000f /data/confluent/apps/connect/logs/connect.log |



6. Cài đặt Confluent Ksqldb:

6.1 Tạo thư mục lưu data , log:

|  |
| --- |
| mkdir -p $KSQLDB\_ROOT\_DIR/{data,logs,ext}  chown -R cp-ksql: $KSQLDB\_ROOT\_DIR  ll $KSQLDB\_ROOT\_DIR |

6.2 Cấu hình file service:

|  |
| --- |
| cp /usr/lib/systemd/system/confluent-ksqldb.service /usr/lib/systemd/system/confluent-ksqldb.service.backup |

|  |
| --- |
| sed -i 's|^Env.\*|Environment="LOG\_DIR='$KSQLDB\_ROOT\_DIR'/logs" "KSQL\_HEAP\_OPTS=-Xmx15G"|' /usr/lib/systemd/system/confluent-ksqldb.service |

|  |
| --- |
| cat /usr/lib/systemd/system/confluent-ksqldb.service | grep Env  systemctl daemon-reload |

6.3 Cấu hình file properties của Ksqldb:

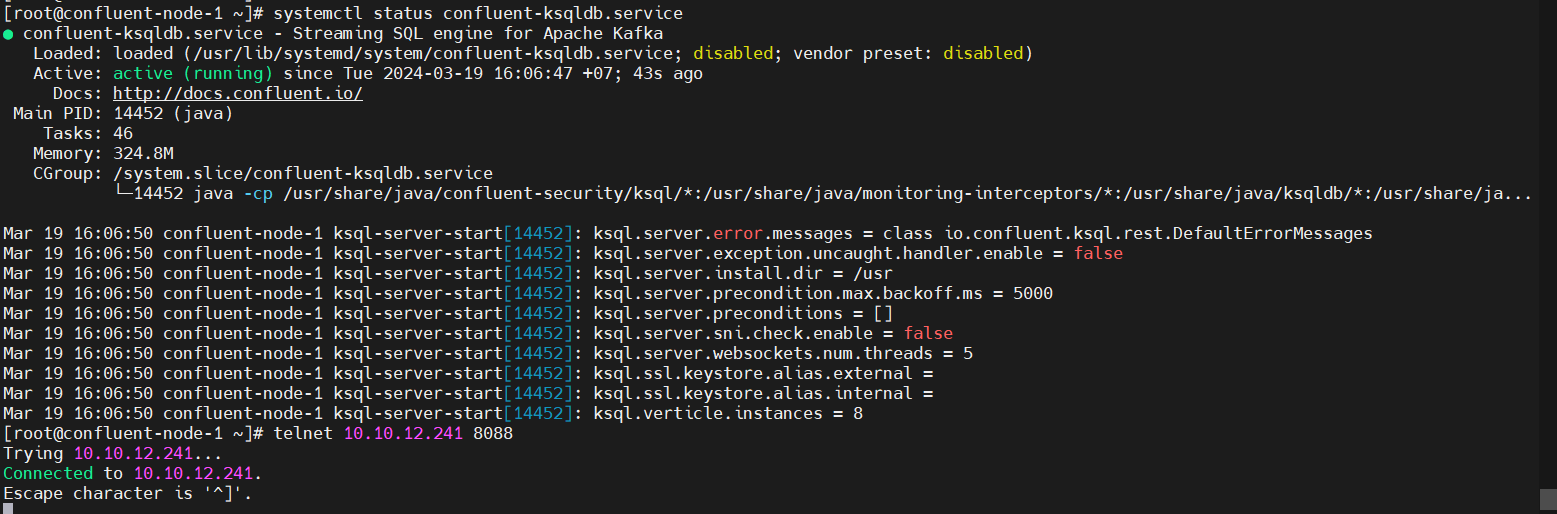
|  |
| --- |
| mv /etc/ksqldb/ksql-server.properties /etc/ksqldb/ksql-server.properties.backup |

|  |
| --- |
| vi etc/ksqldb/ksql-server.properties |

|  |
| --- |
| listeners=http://0.0.0.0:8088  ksql.logging.processing.topic.auto.create=true  ksql.logging.processing.stream.auto.create=true  bootstrap.servers=10.10.12.241:9092,10.10.12.242:9092,10.10.12.244:9092  compression.type=lz4  ksql.schema.registry.url=http://mcr-confluent-schema-registry:8081  state.dir=/data/confluent/apps/ksqldb/data/kafka-streams  ksql.extension.dir=/usr/share/ksqldb\_udf  ksql.streams.num.stream.threads=8 |

6.4 Khởi động Ksqldb:

|  |
| --- |
| systemctl start confluent-ksqldb.service  systemctl status confluent-ksqldb.service  telnet 10.10.12.241 8088 |



7.Cài đặt control center:

7.1 Khởi tạo folder và backup

|  |
| --- |
| mkdir -p $C3\_ROOT\_DIR/{data,logs}  chown -R cp-control-center: $C3\_ROOT\_DIR  ll $C3\_ROOT\_DIR |

7.2 Cấu hình file service của Control center:

|  |
| --- |
| cp /usr/lib/systemd/system/confluent-control-center.service /usr/lib/systemd/system/confluent-control-center.service.backup |

|  |
| --- |
| sed -i 's|LOG\_DIR=.\*" |LOG\_DIR='$C3\_ROOT\_DIR'/logs" |' /usr/lib/systemd/system/confluent-control-center.service |

|  |
| --- |
| cat /usr/lib/systemd/system/confluent-control-center.service  systemctl daemon-reload |

7.3 Cấu hình cho file properties của control center:

|  |
| --- |
| mv $C3\_ROOT\_CONFIG\_DIR/control-center-production.properties /$C3\_ROOT\_CONFIG\_DIR/control-center-production.properties.backup |

|  |
| --- |
| vi $C3\_ROOT\_CONFIG\_DIR/control-center-production.properties |

|  |
| --- |
| config.providers=file  config.providers.file.class=org.apache.kafka.common.config.provider.FileConfigProvider  bootstrap.servers=10.10.12.241:9092,10.10.12.242:9092,10.10.12.244:9092  zookeeper.connect=10.10.12.241:2181,10.10.12.242:2181,10.10.12.244:2181  confluent.controlcenter.data.dir=/data/confluent/apps/control-center/data  confluent.license=eyJ0eXAiOiJKV1QiLCJhbGciOiJSUzI1NiJ9.eyJzdWIiOiJjb250cm9sLWNlbnRlciIsIm5iNCI6IjE2OTU2MTM1ODEiLCJtb25pdG9yaW5nIjp0cnVlLCJsaWNlbnNlVHlwZSI6IkVudGVycHJpc2UiLCJpc3MiOiJDb25mbHVlbnQiLCJpYXQiOjE2OTM1NTE2MDAsImV4cCI6MTc5NTkzNTYwMCwiYXVkIjoiMDA2NFUwMDAwMHNxallQUUFZIn0=.Rjm0el5v7BKbC\_jcu\_lmuHQeoAhKQ3xP4MM1KSl8wo7859OogL954nO2BbNos3OwplXbvuu7\_IsSFyf8UBFK2zUtHV8elCfcIcAxu0uE-pMhYZoBuq\_OXePvrBfRs8TaJOzXq6CcdSrkekL-Ym7epXOO4YOWQzJXLU6GzVcOVDv8bTMEYtVHw-lE3nOYa7rLci9UiKKWex5u4hLdCJMvSNIFhOz5xm5WcGhhSv8mpZJapaVfcxJ5585\_xQ-w\_0QnG-mcLKDhNOkBfG97DId93KC4MIKQe1Cgs-zFpGXqgNajg75aqNxj7WgPcqrrbJSWIirFgD1IKR2oXaXR2m8FWw  confluent.controlcenter.connect.connect-cluster.cluster=http://10.10.12.241:8083  confluent.controlcenter.ksql.ksqldb.url=http://10.10.12.241:8088  confluent.controlcenter.schema.registry.url=http://10.10.12.241:8081  confluent.controlcenter.internal.topics.replication=3  confluent.controlcenter.internal.topics.partitions=12  confluent.controlcenter.command.topic=\_mbb-command\_1  confluent.controlcenter.command.topic.partitions=12  confluent.controlcenter.command.topic.replication=3  confluent.metrics.topic.partitions=12  confluent.metrics.topic=\_confluent-metrics  confluent.metrics.topic.replication=3  confluent.controlcenter.streams.num.stream.threads=1  #e SLF4J: Found binding in [jar:file:/usr/share/java/acl/acl-7.5.3.jar!/org/slf4j/impl/StaticLoggerBinder.class vconfluent.controlcenter.internal.topics.replication=1  #confluent.controlcenter.rest.authentication.method=BASIC  #confluent.controlcenter.rest.authentication.realm=c3  #confluent.controlcenter.rest.authentication.roles=Administrators,Restricted  #confluent.controlcenter.auth.restricted.roles=Restricted  #confluent.controlcenter.auth.session.expiration.ms=600000 |

7.4 Khởi động control center:

|  |
| --- |
| systemctl start confluent-control-center.service  systemctl status confluent-control-center  telnet 10.10.12.241 9021 |

