

## How to connect to NYSE Kafka cluster in Load Test Env

## Prerequisites:

- A VPC with 3 subnets, based on the AWS region where the consumer is setting up the client:

Examples

Region	AZ IDs
US East (us-east-1)	use1-az1, use1-az2 and use1-az4

- Access to create VPC endpoints in your AWS region
- Customer has provided their AWS Account information to NYSE and have Cloud Streaming username/password generated by NYSE

## **Steps to Create VPC Endpoints**

1. Once logged in to your AWS account (use the same role that was provided to NYSE during onboarding), navigate to <a href="Endpoints">Endpoints</a> | VPC Console (amazon.com) and click on Create Endpoint button

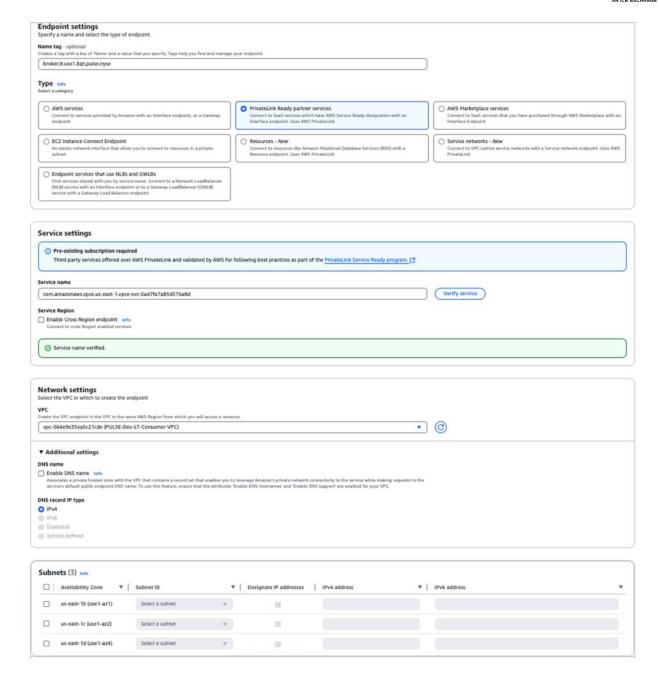


2. On Next page Click on "PrivateLink Ready partner Services" radio button and enter the endpoint service names, as shown in the examples below. Please note your region and Availability Zone IDs will vary depending on the region:

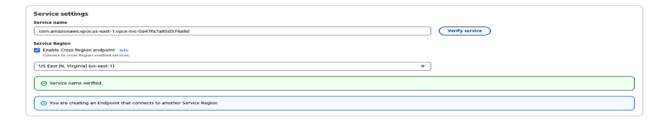
Region	Endpoint Service Name	Availability Zones	Name Tag	Port
US East 1	com.amazonaws.vpce.us-east-1.vpce-svc-	use1-az1, use1-az2	broker.lt.use1.bqt.pulse.nyse	9094
(us-east-1)	0a47fa7a85d576a8d	and use1-az4		

Once appropriate Service Name based on AWS region is entered, click on "Verify service"





Note: When you create endpoint from ap-east-1 (Hong Kong) region, please choose "Enable Service Region endpoint" and select "us-east-1" as a region, as shown below:





- 3. Once Service Name is verified, pick your VPC and subnets and click on Create endpoint. This endpoint DNS name will be referred to as broker.lt.use1.bqt.pulse.nyse in step#6 below.
- 4. Repeat steps 2 and 3 for three more times using following service names based on the region where you are creating the endpoints. Your AWS region and Availability Zone IDs will vary depending on the region:

**US East-1** 

Region	Endpoint Service Name	Availability Zones	Name Tag	Port
US East (us-east-1)	com.amazonaws.vpce.us-east- 1.vpce-svc- 0aa21b8c29d33d773	use1-az1	broker1.lt.use1.bqt.pulse.nyse	9094
US East (us-east-1)	com.amazonaws.vpce.us-east- 1.vpce-svc- 0d93d7b236569b53f	use1-az2	broker2.lt.use1.bqt.pulse.nyse	9094
US East (us-east-1)	com.amazonaws.vpce.us-east- 1.vpce-svc-0dacde25dc79ff380	use1-az4	broker3.lt.use1.bqt.pulse.nyse	9094

Please note VPC endpoint DNS name for 4 will be referred in step number 6 below.

- 5. Navigate to Route 53 and create a private hosted zone named bqt.pulse.nyse and pick the appropriate VPC in which the endpoints were created.
- 6. Once hosted zone is created click on it and depending on your region create 4 different records of type CNAME namely using the VPCendpoint DNS names from step # 4:

US East 1 (us-east-1)
broker.lt.use1.bqt.pulse.nyse
broker1.lt.use1.bqt.pulse.nyse
broker2.lt.use1.bqt.pulse.nyse
broker3.lt.use1.bqt.pulse.nyse



## Define simple record Record name Info To route traffic to a subdomain, enter the subdomain name. For example, to route traffic to blog.example.com, enter blog. If you leave this field blank, the default record name is the name of the domain. broker.lt.use1 .bqt.pulse.nyse Keep blank to create a record for the root domain. Record type Info The DNS type of the record determines the format of the value that Route 53 returns in response to DNS queries. CNAME – Routes traffic to another domain name and to some AWS resources Choose when routing traffic to some Elastic Beanstalk environments or to Amazon RDS database instances. Value/Route traffic to Info The option that you choose determines how Route 53 responds to DNS queries. For most options, you specify where you want to route internet traffic. IP address or another value, depending on the record type 1.vpce.amazonaws.com Enter multiple values on separate lines. TTL (seconds) Info The amount of time, in seconds, that DNS resolvers and web browsers cache the settings in this record. ("TTL" means "time to live.") 1d 300

7. Send an email to <a href="Dev-NYSE-Cloud@ice.com">Dev-NYSE-Cloud@ice.com</a> and try a library of your choice to test kafka connectivity using broker.lt.use1.bqt.pulse.nyse:9094 as the hostname and credentials shared with you.

Cancel

- 8. Sample code snippets for Java, Node.js and Python for data consumption are available <u>here</u>.
- 9. Detailed client specifications for kafka are available <u>here</u>.

Recommended values: 60 to 172800 (two days)

Define simple record