

# Aquila Live Stat Mux

Nov 2023

Stat Mux in Aquila Live is pretty much the same from the user perspective as it has been since the inception of Encoding Live / MKSP and nCC (from a user perspective).

There is now a difference in the configuration of Stat Mux, this is mainly because every system deployed used the same multicast addresses between the EL and Mux, this is okay if you only have one system, but problematic if you have multiple systems.

The Multiplexer installer has also changed to allow the specification of stat mux parameters during the installation phase.

## Multiplexer Installation

One of the steps, when installing the Multiplexer is to specify what Stat Mux multicast address(s) to use, this is done from the command line when doing the install.

```
./installer-multiplexer-el8-20.4.0-6421.sh compact --configure --serverID Mux01 --localIP 192.168.1.213  
--controllerIP 192.168.1.225 --muxAnnouncer 239.225.0.1 --statmuxAnnouncer 239.225.0.1 --  
simulcryptAnnouncer 239.225.0.1 --bisscaAnnouncer 239.225.0.1 --licenseServerIP 192.168.1.225
```

The important part from the stat mux perspective is the announcer address

```
--muxAnnouncer 239.225.0.1 --statmuxAnnouncer 239.225.0.1 --simulcryptAnnouncer 239.225.0.1 --bisscaAnnouncer 239.225.0.1
```

The address in the above example has been used for all announcers, each announcer uses a unique port.

## Finding Announcer Address

If you performed the installation, then great, you probably know the announcer address, however you could be working on a system you have never seen before, and need this announcer information.

We can get this information from the Multiplexer, but the value for the statmuxAnnouncer is in one of the PODs. To access this, first we need to bring up the Kubernetes dashboard, this can be done from an SSH session using the following:

```
k9s
```

This will launch the k9s application

Context: default

Cluster: default

User: default

K9s Rev: v0.27.3 x v0.28.0

K8s Rev: v1.24.10+k3s1

CPU: 1%

MEM: 16%

<0> all

<1> mediakind

<2> default

<a>

<ctrl-d>

<d>

<e>

<f>

<ctrl-k>

Attach

Delete

Describe

Edit

Help

Kill

<l>

<p>

<shift-f>

<s>

<t>

<f>

Logs

Logs Previous


Port-Forward

Shell

Show Node

Show PortForward

<y> YAML



Pods(mediakind)[47]

NAME	PF	READY	RESTARTS	STATUS	CPU	MEM	%CPU/R	%CPU/L	%MEM/R	%MEM/L	IP	NODE
command-95fb49bcd-tgngg	●	1/1	20	Running	0	28	0	0	88	44	10.42.0.3	mediakind
controller-metrics-exporter-d88cf74f-t7zmm	●	1/1	20	Running	1	24	10	0	77	19	10.42.0.16	mediakind
esam-proxy-5959f8874d-jsxn	●	1/1	20	Running	1	20	10	0	61	22	10.42.0.20	mediakind
etcd-controller1-0	●	1/1	25	Running	17	63	170	3	99	24	10.42.0.253	mediakind
follower-api-58f65db49b-jk6fp	●	1/1	70	Running	6	319	20	0	83	20	10.42.0.21	mediakind
flow-649bd86cbb-bl8rx	●	1/1	30	Running	3	38	30	0	70	14	10.42.0.240	mediakind
fluent-bit-77dff75476-zlh14	●	1/1	20	Running	4	35	4	0	56	7	10.42.0.239	mediakind
interface-discovery-57f45c844d-b8qh2	●	1/1	25	Running	3	93	30	0	97	4	10.42.0.18	mediakind
keepalived-mdwgn	●	1/1	20	Running	72	31	144	36	198	49	192.168.255.1	mediakind
kps-kube-state-metrics-75dbddcc-tdvks	●	1/1	20	Running	1	31	1	0	98	24	10.42.0.2	mediakind
kps-operator-5cf59bb7f5-t4zql	●	1/1	20	Running	1	53	1	0	55	20	10.42.0.247	mediakind
kps-prometheus-node-exporter-m7rbx	●	1/1	20	Running	1	17	1	0	54	13	192.168.255.1	mediakind
license-manager-0	●	3/3	73	Running	12	91	40	0	94	11	192.168.255.1	mediakind
metrics-grafana-5c7b6fc5b8-lxcnt	●	3/3	60	Running	2	251	0	0	157	39	10.42.0.249	mediakind
mongodb-operator-85ddf4cb6-tb5b4	●	1/1	20	Running	0	1	0	0	8	4	10.42.0.5	mediakind
mongodb-replicaset-controller1-0	●	2/2	40	Running	35	351	17	2	64	16	192.168.255.1	mediakind
prometheus-kps-prometheus-0	●	2/2	40	Running	14	793	4	2	259	37	10.42.0.241	mediakind
rabbit-operator-28324144-2kmgq	●	0/1	0	Completed	0	0	0	0	0	0	10.42.0.23	mediakind
rabbit-operator-28324145-vpc2j	●	0/1	0	Completed	0	0	0	0	0	0	10.42.0.24	mediakind
rabbit-operator-28324146-t6vc2	●	0/1	0	Completed	0	0	0	0	0	0	10.42.0.25	mediakind
rabbit-operator-28324147-mgdtm	●	1/1	0	Running	0	0	0	0	0	0	10.42.0.26	mediakind
rabbitmq-ha-controller1-0	●	1/1	2	Running	26	209	13	2	81	20	10.42.0.254	mediakind
redis-6b679749d-kl5lq	●	1/1	20	Running	4	12	40	0	4	1	10.42.0.252	mediakind
server-api-67b6d589c8-7lzbq	●	1/1	20	Running	7	37	70	1	78	29	10.42.0.7	mediakind
server-daemon-8b6f9d689-5k8rh	●	1/1	8	Running	2	47	n/a	0	n/a	18	192.168.255.1	mediakind
server-monitor-74b8975bd9-gkffq	●	1/1	20	Running	6	42	60	1	89	33	10.42.0.244	mediakind
service-api-7b848f5fcb-cspsj	●	2/2	48	Running	8	100	40	0	104	31	10.42.0.243	mediakind
snmp-notification-5b6c5f85c7-nt77w	●	1/1	33	Running	2	53	20	0	83	20	10.42.0.245	mediakind
statistic-6b68bfc79d-rbff8	●	1/1	20	Running	0	23	0	0	73	18	10.42.0.246	mediakind
stream-processor-asi-55d45775f5-nfhzl	●	1/1	19	Running	3	11	n/a	n/a	n/a	n/a	192.168.255.1	mediakind
stream-processor-biss-ca-68df799467-ssjht	●	1/1	19	Running	16	9	n/a	n/a	n/a	n/a	192.168.255.1	mediakind
stream-processor-config-5bcbdbf8b-pdrq4	●	1/1	19	Running	14	100	n/a	n/a	n/a	n/a	10.42.0.8	mediakind
stream-processor-content-extraction-548f45b9cd-jzkjc	●	1/1	63	Running	1	64	n/a	n/a	n/a	n/a	192.168.255.1	mediakind
stream-processor-content-extraction-proxy-64c9c86f5c-26m8x	●	1/1	19	Running	1	54	n/a	n/a	n/a	n/a	192.168.255.1	mediakind
stream-processor-mux-68755898f-n58pk	●	2/2	38	Running	25	120	n/a	n/a	n/a	n/a	192.168.255.1	mediakind
stream-processor-simulcrypt-6d678b448c-mfrqm	●	1/1	19	Running	16	11	n/a	n/a	n/a	n/a	192.168.255.1	mediakind
stream-processor-statmux-7cc8d75d85-d195v	●	1/1	19	Running	12	11	n/a	n/a	n/a	n/a	192.168.255.1	mediakind
stream-processor-ui-connector-58595bdb74-flqlld	●	1/1	19	Running	14	71	n/a	n/a	n/a	n/a	10.42.0.15	mediakind
support-package-6c7bbccf4f-lcfnw	●	2/2	40	Running	1	164	5	0	85	14	10.42.0.12	mediakind
template-api-6fddd9ff6d-x8dwc	●	1/1	33	Running	2	30	20	0	94	23	10.42.0.251	mediakind

Scroll down and select the POD 'stream-processor-statmux-xxxxx' then press 's'

```
<K9s-Shell> Pod: mediakind/stream-processor-statmux-7cc8d75d85-d195v | Container: statmux
/opt/ericsson/stream-processing-statmux/bin $ ls
commit_sha.txt      smxMaster            smxMasterIni.json
/opt/ericsson/stream-processing-statmux/bin $
```

Show the contents of the folder using 'ls' and look for smxMasterIni.json

To find the announceAddress enter the following

```
cat smxMasterIni.json |grep announce
```

You will get an output similar to below:

```
"announceAddress": "239.225.0.1",
"announcePort": 15778,
"announce": {
  "statmux.announce.port": 15778,
  "statmux.announce.ttl": 64
}
```

To get out of the K9s use 'exit' then 'ctrl-c'

Using Announcer Address

The last big difference in v7 is that now you have to specify the announcer address in your services using and 'advanced parameter' in the Encoding Live service.

From:

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Last update: **2023/11/08 13:45**

