Flume11 负载均衡和故障转移

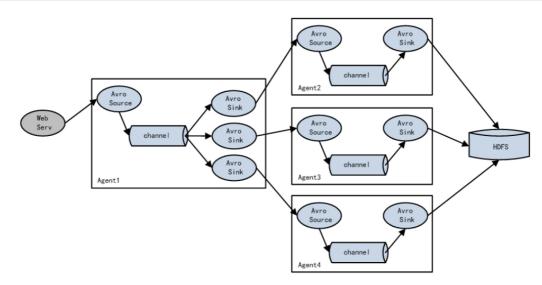
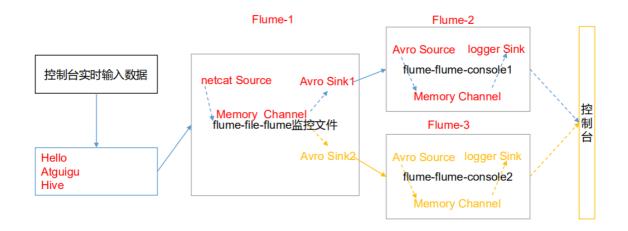


图 7-3 单 Source、Channel 多 Sink

案例需求

使用Flume监控一个端口,其sink组中的sink分别对接Flume2 和 Flume3,采用FailoverSinkProcessor,实现故障转移的功能。

需求分析



实现步骤

准备工作
 在/opt/module/flume/job 目录下创建 group2 文件夹

[atguigu@hadoop102 job]\$ cd group2/

• 创建 flume-netcat-flume.conf

配置1个接收日志文件的source和1个channel、两个sink,分别输送给flume-flume-console1和flume-flume-console2。

创建配置文件并打开:

```
[atguigu@hadoop102 group2]$ touch flume-netcat-flume.conf
[atguigu@hadoop102 group2]$ vim flume-netcat-flume.conf
```

添加如下内容:

```
# Name the components on this agent
a1.sources = r1
a1.channels = c1
a1.sinkgroups = g1
a1.sinks = k1 k2
# Describe/configure the source
a1.sources.r1.type = netcat
a1.sources.r1.bind = localhost
a1.sources.r1.port = 44444
## Sink Group
a1.sinkgroups.g1.processor.type = failover
a1.sinkgroups.g1.processor.priority.k1 = 5
a1.sinkgroups.g1.processor.priority.k2 = 10
al.sinkgroups.gl.processor.maxpenalty = 10000
# Describe the sink
a1.sinks.k1.type = avro
a1.sinks.k1.hostname = hadoop102
a1.sinks.k1.port = 4141
a1.sinks.k2.type = avro
a1.sinks.k2.hostname = hadoop102
a1.sinks.k2.port = 4142
# Describe the channel
a1.channels.c1.type = memory
a1.channels.c1.capacity = 1000
a1.channels.c1.transactionCapacity = 100
# Bind the source and sink to the channel
a1.sources.r1.channels = c1
a1.sinkgroups.g1.sinks = k1 k2
a1.sinks.k1.channel = c1
a1.sinks.k2.channel = c1
```

• 创建 flume-flume-console1.conf

配置上级 Flume 输出的 Source,输出是到本地控制台。

创建配置文件并打开:

```
[atguigu@hadoop102 group2]$ touch flume-flume-console1.conf
[atguigu@hadoop102 group2]$ vim flume-flume-console1.conf
```

添加如下内容:

```
# Name the components on this agent
a2.sources = r1
a2.sinks = k1
a2.channels = c1
# Describe/configure the source
a2.sources.r1.type = avro
a2.sources.r1.bind = hadoop102
a2.sources.r1.port = 4141
# Describe the sink
a2.sinks.k1.type = logger
# Describe the channel
a2.channels.c1.type = memory
a2.channels.c1.capacity = 1000
a2.channels.c1.transactionCapacity = 100
# Bind the source and sink to the channel
a2.sources.r1.channels = c1
a2.sinks.k1.channel = c1
```

• 创建 flume-flume-console2.conf

配置上级 Flume 输出的 Source,输出是到本地控制台。

创建配置文件并打开:

```
[atguigu@hadoop102 group2]$ touch flume-flume-console2.conf
[atguigu@hadoop102 group2]$ vim flume-flume-console2.conf
```

添加如下内容:

```
# Name the components on this agent
a3.sources = r1
a3.sinks = k1
a3.channels = c2
# Describe/configure the source
a3.sources.r1.type = avro
a3.sources.r1.bind = hadoop102
a3.sources.r1.port = 4142
# Describe the sink
a3.sinks.k1.type = logger
# Describe the channel
a3.channels.c2.type = memory
a3.channels.c2.capacity = 1000
a3.channels.c2.transactionCapacity = 100
# Bind the source and sink to the channel
a3.sources.r1.channels = c2
a3.sinks.k1.channel = c2
```

• 执行配置文件

分别开启对应配置文件: flume-flume-console2, flume-flume-console1, flume-netcat-flume。

```
[atguigu@hadoop102 flume]$ bin/flume-ng agent --conf conf/ --name
a3 --conf-file job/group2/flume-flume-console2.conf
-Dflume.root.logger=INFO,console
[atguigu@hadoop102 flume]$ bin/flume-ng agent --conf conf/ --name
a2 --conf-file job/group2/flume-flume-console1.conf
-Dflume.root.logger=INFO,console
[atguigu@hadoop102 flume]$ bin/flume-ng agent --conf conf/ --name
a1 --conf-file job/group2/flume-netcat-flume.conf
```

• 使用 telnet 工具向本机的 44444 端口发送内容

```
telnet localhost 44444
```

- 查看 Flume2 及 Flume3 的控制台打印日志
- 然后把 Flume3挂掉,再发送。