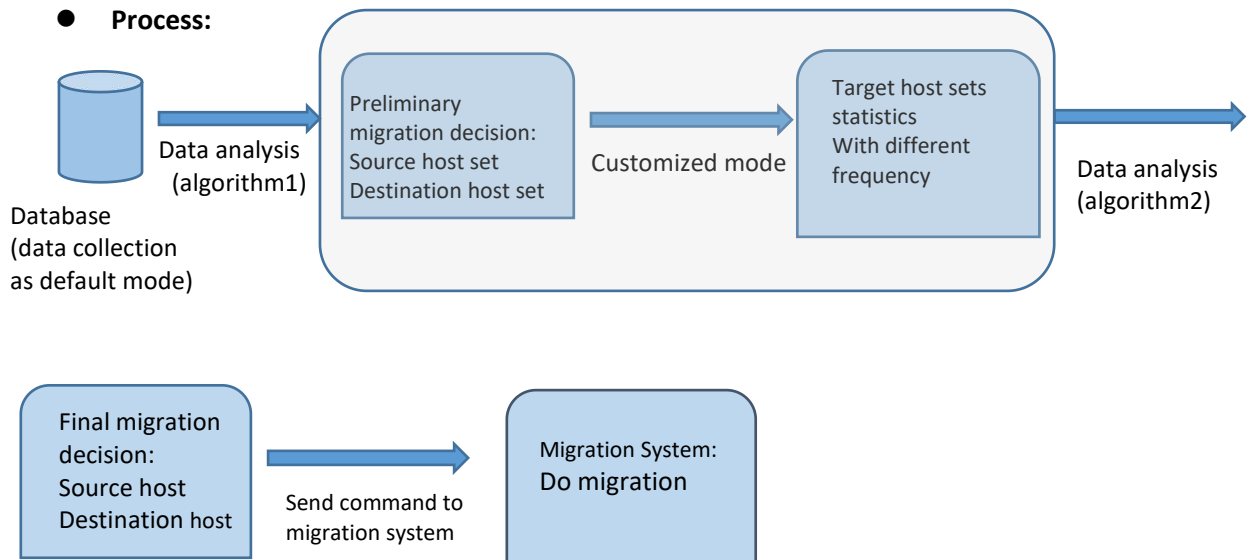# Report for week6,7

Software defined measurement

- **Goal:** create a software measurement system which can be used to analysis the data from the database in which there is bandwidth,aggregate and latency of the network. We create our algorithm to make decision of the source host and destination host for migration.

- **Process:**

- **Current Achievement:**

Database, statistics collection in default mode, statistics collection in Customized mode, migration System

- **Results**
  - **Out put log**

```
Aggregate Message produced
now in aggregate default mode
now in bandwidth default mode
Got Message of Aggregate
Got Message of bandwidth
now start bandwidth customrizationMode,set frequency 5000 ms
Created table temp_bandwidth_0000000000000001P1in database
tablename temp_aggregate_0000000000000001
Created table temp_aggregate_0000000000000001in database
tablename temp_aggregate_0000000000000002
Created table temp_aggregate_0000000000000002in database
now start Aggregate customrizationMode,set frequency 5000 ms
still in bandwidth customrizationMode
still in Aggregate customrizationMode
still in bandwidth customrizationMode
still in Aggregate customrizationMode
still in bandwidth customrizationMode
still in Aggregate customrizationMode
AggregateReset Message produced
BandwidthReset Message produced
Got Message of AggregateReset
Got Message of BandwidthReset
Got Message of BandwidthReset
table deleted in the database
table deleted in the database
now reset to Aggregate default mode
table deleted in the database
now reset to bandwidth default mode
now in aggregate default mode
```

➢ **Temporary generated table(set the frequence 5s, one table correspond to one switch in customized mode)**

	id	Time	flow_count	packet_count	PCDifference
☐ 🖉 Edit ⅔ Copy ⊖ Delete	1	2017-10-27 14:42:35	1	1814	0
☐ 🖉 Edit ⅔ Copy ⊖ Delete	2	2017-10-27 14:42:40	1	1814	0
☐ 🖉 Edit ⅔ Copy ⊖ Delete	3	2017-10-27 14:42:45	1	1816	2
☐ 🖉 Edit ⅔ Copy ⊖ Delete	4	2017-10-27 14:42:50	1	1816	0

➢ **Reset Message**
The system will delete the temporary table from the database

● **Customized mode implementation details(in gray block):**