1.Install Redis-server and hiredis on Mac

1) Install Redis

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| brew install redis |

2)Install hiredis

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| <https://github.com/redis/hiredis> |

3)Add lib of Hiredis to the project

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| libhiredis.0.14.dylib |

4)Include the headfile of Hiredis

5)Start Redis server(root)

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| redis-server |

2. New File Added to the Project

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| File | Function |
| threadsafe\_queue.h | The funtions of thread safe queue. |
| BGPEvent.h | The definition of the Class Event sent to the database. |
| BGPEvent.cpp | Transform the event into JSON format. |
| BGPRedis.h | The definition of Class Redis. |
| BGPRedis.cpp | The function in Class Redis |

2. Event Type in BGPEvent.h

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| Event Type | Called File | Called Function | Information |
| PREFIX\_ANN\_AS | cache.cpp | AS::addPrefix() | Time, EventType,  AsNum, Prefix |
| PREFIX\_REM\_AS | cache.cpp | AS::removePrefix() | Time, EventType,  AsNum, Prefix |
| OUTAGE\_EV | BGPTables.cpp | BGPTable::update() | Time,  EventType |
| HIJACK\_EV | BGPTables.cpp | BGPTable::setPathActive() | Time,  EventType,  HijackingAsNum,  HijackedAsNum |