

```

1 void Hash::Finalize(){
2     ...
3     //Generate file_hash event if a transmitted file is
4     //detected.
5     mgr.QueueEvent(file_hash, v1);
6 }

```

Callback

```

7 EventHandler::Call(val_list* v1, bool no_remote){
8     //file_hash EventHandler
9     ....
10    //Eventually query local store.
11    bro_broker::StoreQueryCallback* cb;
12    ...
13    handle->store->lookup(...,cb);
14 }

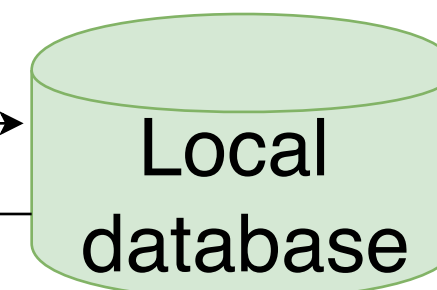
```

Time out

```

23 Trigger::Timeout(){
24     ...
25     //Log a malware-detection error
26     //in case local database timeout.
27 }

```



Callback

```

15 StoreQueryCallback::Result(RecordVal*result){
16     //If file hash is in local store, log the detected
17     //malware and quit.
18     ...
19     //If file hash is not in local store, eventually
20     //query DNS.
21     dns_mgr->AsyncLookupNameText(..., new
        LookupHostCallback(...));
22 }

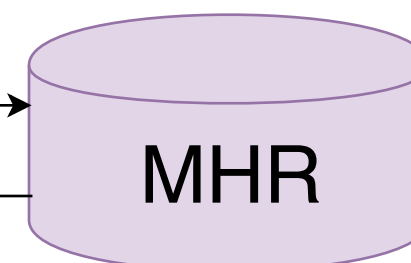
```

Time out

```

33 LookupHostCallback::Timeout(){
34     ...
35     //Log a malware-detection error
36     // in case DNS query timeouts.
37 }

```



Callback

```

28 LookupHostCallback::Resolved(TableVal* addrs){
29     ...
30     //If file hash is in MHR service, log the detected
31     //malware. Otherwise quit.
32 }

```