**Log from the SportsServer.py:**

**(Red colored text highlights region where FEP2 was down)**

----------------------Heartbeat check from Dispatcher---------------------- ('127.0.0.1', 51827)

^^^^^^^^^^^^^^^^^^^^Dispatcher got heartbeat from FEP 1^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^ Heartbeat

Dispatcher checking with FEP2 Server

----------------------Heartbeat check from Dispatcher to FEP 2---------------------- 1

^^^^^^^^^^^^^^^^^^^^Dispatcher got heartbeat from FEP 2^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^ Heartbeat

FEP2\_Status 1

@@@@@@@@@@@@@@@@@@@@@@@@@ NO SERVER DOWN @@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@

F1:######### CLIENT PUSH MODE ############

L2dldFNjb3JlL1N0b25lIEN1cmxpbmc=

Current Berk Sync Time

1524795589.12

127.0.0.1 - - [26/Apr/2018 22:19:49] "GET /getScore/Stone%20Curling HTTP/1.1" 200 -

F1\*\*\*\*\*\*\*CACHE MISS\*\*\*\*\*\*\*\*\*\*\*

F1:\*\*\*\*\*\*\*\*\*\*\*ADDING ELEMENT INTO CACHE\*\*\*\*\*\*\*\*\* [u'{"Rome": "300", "Gual": "600"}', 0]

Dispatcher checking with FEP1 Server

----------------------Heartbeat check from Dispatcher---------------------- ('127.0.0.1', 51905)

^^^^^^^^^^^^^^^^^^^^Dispatcher got heartbeat from FEP 1^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^ Heartbeat

Dispatcher checking with FEP2 Server

^^^^^^^^^^^^^^^^^^^^NO heartbeat from FEP 2^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^

FEP2\_Status 0

@@@@@@@@@@@@@@@@@@@@@@@@@ FEP 2 SERVER DOWN @@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@

############## CLIENT PULL MODE IS ON################

L2dldE1lZGFsVGFsbHkvUm9tZQ==

F2:\*\*\*\*CACHE HIT\*\*\*\*\*\*

F2:\*\*\*\*\*\*\*\*FROM LOCAL CACHE---> {"Rome": {"Gold": 16508, "Silver": 2468, "Bronze": 7}}

F1:######### CLIENT PUSH MODE ############

L2dldFNjb3JlL1N0b25lIFRocm93aW5n

Current Berk Sync Time

1524795590.17

127.0.0.1 - - [26/Apr/2018 22:19:50] "GET /getScore/Stone%20Throwing HTTP/1.1" 200 -

F1\*\*\*\*\*\*\*CACHE MISS\*\*\*\*\*\*\*\*\*\*\*

F1:\*\*\*\*\*\*\*\*\*\*\*ADDING ELEMENT INTO CACHE\*\*\*\*\*\*\*\*\* [u'{"Rome": "300", "Gual": "600"}', 0]

Dispatcher checking with FEP1 Server

----------------------Heartbeat check from Dispatcher---------------------- ('127.0.0.1', 51910)

^^^^^^^^^^^^^^^^^^^^Dispatcher got heartbeat from FEP 1^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^ Heartbeat

Dispatcher checking with FEP2 Server

^^^^^^^^^^^^^^^^^^^^NO heartbeat from FEP 2^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^

FEP2\_Status 0

@@@@@@@@@@@@@@@@@@@@@@@@@ FEP 2 SERVER DOWN @@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@

F1:######### CLIENT PUSH MODE ############

L3NldFNjb3JlL1N0b25lIFRocm93aW5nLzMwMC82MDAvQ2Fjb2Zvbml4

f1:data recvd----> /setScore/Stone Throwing/300/600/Cacofonix

Current Berk Sync Time

1524795591.22

127.0.0.1 - - [26/Apr/2018 22:19:51] "PUT /setScore/Stone%20Throwing/300/600/Cacofonix HTTP/1.1" 200 -

DATA---> /setScore/Stone Throwing/300/600/Cacofonix

DAT\_STR---> /getScore/Stone Throwing

L2dldFNjb3JlL1N0b25lIFRocm93aW5n

F1:\*\*\*\*ADDING 1 TO DIRTY BIT\*\*\*\*\*\* [u'{"Rome": "300", "Gual": "600"}', 1]

F1:######### CLIENT PUSH MODE ############

L2luY3JlbWVudE1lZGFsVGFsbHkvUm9tZS9TaWx2ZXIvQ2Fjb2Zvbml4

f1:data recvd----> /incrementMedalTally/Rome/Silver/Cacofonix

Current Berk Sync Time

1524795591.27

127.0.0.1 - - [26/Apr/2018 22:19:51] "PUT /incrementMedalTally/Rome/Silver/Cacofonix HTTP/1.1" 200 -

DATA---> /incrementMedalTally/Rome/Silver/Cacofonix

DAT\_STR---> /getMedalTally/Rome

L2dldE1lZGFsVGFsbHkvUm9tZQ==

F1:\*\*\*\*ADDING 1 TO DIRTY BIT\*\*\*\*\*\* [u'{"Rome": {"Gold": 16508, "Silver": 2468, "Bronze": 7}}', 1]

F1:######### CLIENT PUSH MODE ############

L2luY3JlbWVudE1lZGFsVGFsbHkvR3VhbC9Hb2xkL0NhY29mb25peA==

f1:data recvd----> /incrementMedalTally/Gual/Gold/Cacofonix

Current Berk Sync Time

1524795591.33

127.0.0.1 - - [26/Apr/2018 22:19:51] "PUT /incrementMedalTally/Gual/Gold/Cacofonix HTTP/1.1" 200 -

DATA---> /incrementMedalTally/Gual/Gold/Cacofonix

DAT\_STR---> /getMedalTally/Gual

L2dldE1lZGFsVGFsbHkvR3VhbA==

F1:######### CLIENT PUSH MODE ############

L3NldFNjb3JlL1N0b25lIEN1cmxpbmcvMzAwLzYwMC9DYWNvZm9uaXg=

f1:data recvd----> /setScore/Stone Curling/300/600/Cacofonix

Current Berk Sync Time

1524795591.39

127.0.0.1 - - [26/Apr/2018 22:19:51] "PUT /setScore/Stone%20Curling/300/600/Cacofonix HTTP/1.1" 200 -

DATA---> /setScore/Stone Curling/300/600/Cacofonix

DAT\_STR---> /getScore/Stone Curling

L2dldFNjb3JlL1N0b25lIEN1cmxpbmc=

F1:\*\*\*\*ADDING 1 TO DIRTY BIT\*\*\*\*\*\* [u'{"Rome": "300", "Gual": "600"}', 1]

Dispatcher checking with FEP1 Server

----------------------Heartbeat check from Dispatcher---------------------- ('127.0.0.1', 51917)

^^^^^^^^^^^^^^^^^^^^Dispatcher got heartbeat from FEP 1^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^ Heartbeat

Dispatcher checking with FEP2 Server

^^^^^^^^^^^^^^^^^^^^NO heartbeat from FEP 2^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^

FEP2\_Status 0

@@@@@@@@@@@@@@@@@@@@@@@@@ FEP 2 SERVER DOWN @@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@

F1:######### CLIENT PUSH MODE ############

L2dldE1lZGFsVGFsbHkvR3VhbA==

Current Berk Sync Time

1524795592.44

127.0.0.1 - - [26/Apr/2018 22:19:52] "GET /getMedalTally/Gual HTTP/1.1" 200 -

F1\*\*\*\*\*\*\*CACHE MISS\*\*\*\*\*\*\*\*\*\*\*

F1:\*\*\*\*\*\*\*\*\*\*\*ADDING ELEMENT INTO CACHE\*\*\*\*\*\*\*\*\* [u'{"Gual": {"Gold": 18975, "Silver": 2, "Bronze": 8}}', 0]

Dispatcher checking with FEP1 Server

----------------------Heartbeat check from Dispatcher---------------------- ('127.0.0.1', 51921)

^^^^^^^^^^^^^^^^^^^^Dispatcher got heartbeat from FEP 1^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^ Heartbeat

Dispatcher checking with FEP2 Server

^^^^^^^^^^^^^^^^^^^^NO heartbeat from FEP 2^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^

FEP2\_Status 0

@@@@@@@@@@@@@@@@@@@@@@@@@ FEP 2 SERVER DOWN @@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@

F1:######### CLIENT PUSH MODE ############

L2dldE1lZGFsVGFsbHkvUm9tZQ==

Current Berk Sync Time

1524795593.48

127.0.0.1 - - [26/Apr/2018 22:19:53] "GET /getMedalTally/Rome HTTP/1.1" 200 -

F1:\*\*\*\*\*\*\*\*\*\*\*\*Removing DIRTY RESULT FROM CACHE\*\*\*\*\*\*\*\*\*\*

Dispatcher checking with FEP1 Server

----------------------Heartbeat check from Dispatcher---------------------- ('127.0.0.1', 51925)

^^^^^^^^^^^^^^^^^^^^Dispatcher got heartbeat from FEP 1^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^ Heartbeat

Dispatcher checking with FEP2 Server

^^^^^^^^^^^^^^^^^^^^NO heartbeat from FEP 2^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^

FEP2\_Status 0

@@@@@@@@@@@@@@@@@@@@@@@@@ FEP 2 SERVER DOWN @@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@

F1:######### CLIENT PUSH MODE ############

L2dldE1lZGFsVGFsbHkvUm9tZQ==

Current Berk Sync Time

1524795594.53

127.0.0.1 - - [26/Apr/2018 22:19:54] "GET /getMedalTally/Rome HTTP/1.1" 200 -

F1\*\*\*\*\*\*\*CACHE MISS\*\*\*\*\*\*\*\*\*\*\*

F1:\*\*\*\*\*\*\*\*\*\*\*ADDING ELEMENT INTO CACHE\*\*\*\*\*\*\*\*\* [u'{"Rome": {"Gold": 16508, "Silver": 2469, "Bronze": 7}}', 0]

Dispatcher checking with FEP1 Server

----------------------Heartbeat check from Dispatcher---------------------- ('127.0.0.1', 51929)

^^^^^^^^^^^^^^^^^^^^Dispatcher got heartbeat from FEP 1^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^ Heartbeat

Dispatcher checking with FEP2 Server

^^^^^^^^^^^^^^^^^^^^NO heartbeat from FEP 2^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^

FEP2\_Status 0

@@@@@@@@@@@@@@@@@@@@@@@@@ FEP 2 SERVER DOWN @@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@

F1:######### CLIENT PUSH MODE ############

L2dldFNjb3JlL1N0b25lIEN1cmxpbmc=

Current Berk Sync Time

1524795595.57

127.0.0.1 - - [26/Apr/2018 22:19:55] "GET /getScore/Stone%20Curling HTTP/1.1" 200 -

F1:\*\*\*\*\*\*\*\*\*\*\*\*Removing DIRTY RESULT FROM CACHE\*\*\*\*\*\*\*\*\*\*

Dispatcher checking with FEP1 Server

----------------------Heartbeat check from Dispatcher---------------------- ('127.0.0.1', 51933)

^^^^^^^^^^^^^^^^^^^^Dispatcher got heartbeat from FEP 1^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^ Heartbeat

Dispatcher checking with FEP2 Server

**Log from Client side cclientserver.py:**

**(Text in red is data when FEP2 server is down)**

Sending Request from Client2--> /getMedalTally/Gual

DATA RECEIVED by client2 from FEP---> {"Gual": {"Gold": 18972, "Silver": 2, "Bronze": 8}}

Time taken for processing request 8.80500006676

Sending Request from Client1--> /getMedalTally/Rome

DATA RECEIVED from FEP by client1---> {"Rome": {"Gold": 16508, "Silver": 2466, "Bronze": 7}}

Time taken for processing request 8.83100008965

Sending Request from Client4--> /getMedalTally/Rome

DATA RECEIVED by client4 from FEP---> {"Rome": {"Gold": 16508, "Silver": 2466, "Bronze": 7}}

Time taken for processing request 8.82999992371

Sending Request from Client3--> /getMedalTally/Rome

DATA RECEIVED by Client3 from FEP---> {"Rome": {"Gold": 16508, "Silver": 2466, "Bronze": 7}}

Time taken for processing request 8.83800005913

Sending Request from Client6--> /getScore/Stone Curling

DATA RECEIVED by client6 from FEP---> {"Rome": "300", "Gual": "600"}

Time taken for processing request 8.85899996758

Sending Request from Client5--> /getScore/Stone Throwing

DATA RECEIVED by client5 from FEP---> {"Rome": "300", "Gual": "600"}

Time taken for processing request 8.89199995995

Sending Request from Client2--> /getMedalTally/Gual

DATA RECEIVED by client2 from FEP---> {"Gual": {"Gold": 18972, "Silver": 2, "Bronze": 8}}

Time taken for processing request 0.0940001010895

Sending Request from Cacofonix--> /setScore/Stone Throwing/300/600/Cacofonix

DATA RECEIVED by Cacofonix from FEP---> {"Rome": "300", "Gual": "600"}

Sending Request from Cacofonix--> /incrementMedalTally/Rome/Silver/Cacofonix

DATA RECEIVED by Cacofonix from FEP---> {"Rome": {"Stone Skating": {"Score": "50"}, "Gold": 16508, "Stone Throwing": {"Score": "300"}, "Stone Curling": {"Score": "300"}, "Silver": 2467, "Bronze": 7}}

Sending Request from Cacofonix--> /incrementMedalTally/Gual/Gold/Cacofonix

DATA RECEIVED by Cacofonix from FEP---> {"Gual": {"Stone Skating": {"Score": "50"}, "Gold": 18973, "Stone Throwing": {"Score": "600"}, "Stone Curling": {"Score": "600"}, "Silver": 2, "Bronze": 8}}

Sending Request from Cacofonix--> /setScore/Stone Curling/300/600/Cacofonix

DATA RECEIVED by Cacofonix from FEP---> {"Rome": "300", "Gual": "600"}

Sending Request from Client1--> /getMedalTally/Rome

DATA RECEIVED from FEP by client1---> {"Rome": {"Gold": 16508, "Silver": 2467, "Bronze": 7}}

Time taken for processing request 0.274000167847

Sending Request from Client3--> /getMedalTally/Rome

DATA RECEIVED by Client3 from FEP---> {"Rome": {"Gold": 16508, "Silver": 2467, "Bronze": 7}}

Time taken for processing request 0.296000003815

Sending Request from Client4--> /getMedalTally/Rome

DATA RECEIVED by client4 from FEP---> {"Rome": {"Gold": 16508, "Silver": 2467, "Bronze": 7}}

Time taken for processing request 0.310000181198

Sending Request from Client6--> /getScore/Stone Curling

DATA RECEIVED by client6 from FEP---> {"Rome": "300", "Gual": "600"}

Time taken for processing request 0.317999839783

Sending Request from Client5--> /getScore/Stone Throwing

DATA RECEIVED by client5 from FEP---> {"Rome": "300", "Gual": "600"}

Time taken for processing request 0.327999830246

Sending Request from Cacofonix--> /setScore/Stone Throwing/300/600/Cacofonix

DATA RECEIVED by Cacofonix from FEP---> {"Rome": "300", "Gual": "600"}

Sending Request from Cacofonix--> /incrementMedalTally/Rome/Silver/Cacofonix

DATA RECEIVED by Cacofonix from FEP---> {"Rome": {"Stone Skating": {"Score": "50"}, "Gold": 16508, "Stone Throwing": {"Score": "300"}, "Stone Curling": {"Score": "300"}, "Silver": 2468, "Bronze": 7}}

Sending Request from Cacofonix--> /incrementMedalTally/Gual/Gold/Cacofonix

DATA RECEIVED by Cacofonix from FEP---> {"Gual": {"Stone Skating": {"Score": "50"}, "Gold": 18974, "Stone Throwing": {"Score": "600"}, "Stone Curling": {"Score": "600"}, "Silver": 2, "Bronze": 8}}

Sending Request from Cacofonix--> /setScore/Stone Curling/300/600/Cacofonix

DATA RECEIVED by Cacofonix from FEP---> {"Rome": "300", "Gual": "600"}

Sending Request from Client2--> /getMedalTally/Gual

DATA RECEIVED by client2 from FEP---> {"Gual": {"Gold": 18974, "Silver": 2, "Bronze": 8}}

Time taken for processing request 0.539000034332

Sending Request from Client1--> /getMedalTally/Rome

DATA RECEIVED from FEP by client1---> {"Rome": {"Gold": 16508, "Silver": 2468, "Bronze": 7}}

Time taken for processing request 0.391999959946

Sending Request from Client3--> /getMedalTally/Rome

DATA RECEIVED by Client3 from FEP---> {"Rome": {"Gold": 16508, "Silver": 2468, "Bronze": 7}}

Time taken for processing request 0.419999837875

Sending Request from Client6--> /getScore/Stone Curling

DATA RECEIVED by client6 from FEP---> {"Rome": "300", "Gual": "600"}

Time taken for processing request 0.415999889374

Sending Request from Client4--> /getMedalTally/Rome

DATA RECEIVED by client4 from FEP---> {"Rome": {"Gold": 16508, "Silver": 2468, "Bronze": 7}}

Time taken for processing request 1.46899986267

Sending Request from Client5--> /getScore/Stone Throwing

DATA RECEIVED by client5 from FEP---> {"Rome": "300", "Gual": "600"}

Time taken for processing request 1.42999982834

Sending Request from Cacofonix--> /setScore/Stone Throwing/300/600/Cacofonix

DATA RECEIVED by Cacofonix from FEP---> {"Rome": "300", "Gual": "600"}

Sending Request from Cacofonix--> /incrementMedalTally/Rome/Silver/Cacofonix

DATA RECEIVED by Cacofonix from FEP---> {"Rome": {"Stone Skating": {"Score": "50"}, "Gold": 16508, "Stone Throwing": {"Score": "300"}, "Stone Curling": {"Score": "300"}, "Silver": 2469, "Bronze": 7}}

Sending Request from Cacofonix--> /incrementMedalTally/Gual/Gold/Cacofonix

DATA RECEIVED by Cacofonix from FEP---> {"Gual": {"Stone Skating": {"Score": "50"}, "Gold": 18975, "Stone Throwing": {"Score": "600"}, "Stone Curling": {"Score": "600"}, "Silver": 2, "Bronze": 8}}