LAB 1.1

At Source Machine (Machine A)

    Create Replication Instance

    $ mupip replicate -instance_create -name=YDB_A

    Start Active Source Server

    $ mupip replicate -source -start -secondary={IP_of_Machine_B}:8989 -instsecondary=YDB_B -log=${ydb_log}/YDB_B_source_server.log

At Receiver Machine (Machine B)

    Create Replication Instance

    $ mupip replicate -instance_create -name=YDB_B

    Start Passive Source Server

    $ mupip replicate -source -start -passive -instsecondary=YDB_A -log=${ydb_log}/YDB_A_source_server.log

    Start Receiver Server

    $ mupip replicate -receiver -start -listenport=8989 -log=${ydb_log}/YDB_B_receiver.log

At Source Machine (Machine A)

    Write Something on YDB

    $ ydb

    YDB> s ^TEST(1.1)=1

    YDB> w ^TEST(1.1)

At Receiver Machine (Machine B)

        Read Something on YDB

        $ ydb

        YDB> w ^TEST(1.1)

LAB 1.2

At Source Machine (Machine A)

        Shutdown Active Source Server

        $ mupip replicate -source -shutdown -timeout=2

At Receiver Machine (Machine B)

        Shutdown Receiver Server

        $ mupip replicate -receiver -shutdown -timeout=2

        Shutdown Passive Source Server

        $ mupip replicate -source -shutdown -timeout=2

        Start Active Source Server

        $ mupip replicate -source -start -secondary={IP_of_Machine_A}:8989 -instsecondary=YDB_A -
log=${ydb_log}/YDB_A_source_server.log

At Source Machine (Machine A)

Start Passive Source Server

$ mupip replicate -source -start -passive -instsecondary=YDB_B -log=${ydb_log}/YDB_B_source_server.log

Start Receiver Server

$ mupip replicate -receiver -start -listenport=8989 -log=${ydb_log}/YDB_A_receiver.log

At Source Machine (Machine B)

Write Something on YDB

$ ydb

YDB> s ^TEST(1.2)=1

YDB> w ^TEST(1.2)

At Receiver Machine (Machine A)

Read Something on YDB

$ ydb

YDB> w ^TEST(1.2)

LAB 2.1

At Source Machine (Machine A)

    Create Replication Instance

    $ mupip replicate -instance_create -name=YDB_A

    Start Active Source Server 1 (To B)

    $ mupip replicate -source -start -secondary={IP_of_Machine_B}:8989 -instsecondary=YDB_B -log=${ydb_log}/YDB_B_source_server.log

    Start Active Source Server 2 (To C)

    $ mupip replicate -source -start -secondary={IP_of_Machine_C}:8989 -instsecondary=YDB_C -log=${ydb_log}/YDB_C_source_server.log

At Receiver Machine 1 (Machine B)

    Create Replication Instance

    $ mupip replicate -instance_create -name=YDB_B

    Start Passive Source Server

    $ mupip replicate -source -start -passive -instsecondary=YDB_A -log=${ydb_log}/YDB_A_source_server.log

    Start Receiver Server

    $ mupip replicate -receiver -start -listenport=8989 -log=${ydb_log}/YDB_B_receiver.log

At Receiver Machine 2 (Machine C)

Create Replication Instance

$ mupip replicate -instance_create -name=YDB_C

Start Passive Source Server

$ mupip replicate -source -start -passive -instsecondary=YDB_A -log=${ydb_log}/YDB_A_source_server.log

Start Receiver Server

$ mupip replicate -receiver -start -listenport=8989 -log=${ydb_log}/YDB_C_receiver.log

At Source Machine (Machine A)

Write Something on YDB

$ ydb

YDB> s ^TEST(2.1)=1

YDB> w ^TEST(2.1)

At Receiver Machine (Machine B)

Read Something on YDB

$ ydb

YDB> w ^TEST(2.1)

At Receiver Machine (Machine C)

Read Something on YDB

$ ydb

YDB> w ^TEST(2.1)

LAB 2.2

Switch Source To C

At Source Machine (Machine A)

    Shutdown Active Source Server 1 (To B)

    $ mupip replicate -source -shutdown -timeout=2 -inst=YDB_B

    Shutdown Active Source Server 2 (To C)

    $ mupip replicate -source -shutdown -timeout=2 -inst=YDB_C

At Receiver Machine 2 (Machine C)

    Shutdown Receiver Server

    $ mupip replicate -receiver -shutdown -timeout=2

    Shutdown Passive Source Server

    $ mupip replicate -source -shutdown -timeout=2

    Start Active Source Server 1 (To B)

    $ mupip replicate -source -start -secondary={IP_of_Machine_B}:8989 -instsecondary=YDB_B -log=${ydb_log}/YDB_B_source_server.log

    Start Active Source Server 2 (To A)

    $ mupip replicate -source -start -secondary={IP_of_Machine_A}:8989 -instsecondary=YDB_A -log=${ydb_log}/YDB_A_source_server.log

At Source Machine (Machine C)

Write Something on YDB

$ ydb

YDB> s ^TEST(2.2.1)=1

YDB> w ^TEST(2.2.1)

At Receiver Machine (Machine B)

Read Something on YDB

$ ydb

YDB> w ^TEST(2.2.1)

At Receiver Machine (Machine A)

Read Something on YDB

$ ydb

YDB> w ^TEST(2.2.1)

Switch Source Back to A

At Source Machine (Machine C)

Shutdown Active Source Server 1 (To B)

$ mupip replicate -source -shutdown -timeout=2 -inst=YDB_B

Shutdown Active Source Server 2 (To A)

$ mupip replicate -source -shutdown -timeout=2 -inst=YDB_A

At Receiver Machine 2 (Machine A)

Shutdown Receiver Server

$ mupip replicate -receiver -shutdown -timeout=2

Shutdown Passive Source Server

$ mupip replicate -source -shutdown -timeout=2

Start Active Source Server 1 (To B)

$ mupip replicate -source -start -secondary={IP_of_Machine_B}:8989 -instsecondary=YDB_B -log=${ydb_log}/YDB_B_source_server.log

Start Active Source Server 2 (To C)

$ mupip replicate -source -start -secondary={IP_of_Machine_C}:8989 -instsecondary=YDB_C -log=${ydb_log}/YDB_C_source_server.log

At Source Machine (Machine A)

Write Something on YDB

$ ydb

YDB> s ^TEST(2.2.2)=1

YDB> w ^TEST(2.2.2)

At Receiver Machine (Machine B)

Read Something on YDB

$ ydb

YDB> w ^TEST(2.2.2)

At Receiver Machine (Machine C)

Read Something on YDB

$ ydb

YDB> w ^TEST(2.2.2)

LAB 3.1

At Source Machine (Machine A)

Create Replication Instance

$ mupip replicate -instance_create -name=YDB_A

Start Active Source Server

$ mupip replicate -source -start -secondary={IP_of_Machine_B}:8989 -instsecondary=YDB_B -log=${ydb_log}/YDB_B_source_server.log

At Receiver Machine (Machine B)

Create Replication Instance

$ mupip replicate -instance_create -name=YDB_B

Start Passive Source Server

$ mupip replicate -source -start -passive -instsecondary=YDB_A -
log=${ydb_log}/YDB_A_source_server.log

Start Receiver Server

$ mupip replicate -receiver -start -listenport=8989 -log=${ydb_log}/YDB_B_receiver.log

Start Active Source Server (to C)

$ mupip replicate -source -start -secondary={IP_of_Machine_C}:8989 -instsecondary=YDB_C -
log=${ydb_log}/YDB_C_source_server.log

At Receiver Machine (Machine C)

Create Replication Instance

$ mupip replicate -instance_create -name=YDB_C

Start Passive Source Server

$ mupip replicate -source -start -passive -instsecondary=YDB_A -
log=${ydb_log}/YDB_A_source_server.log

Start Receiver Server

$ mupip replicate -receiver -start -listenport=8989 -log=${ydb_log}/YDB_C_receiver.log

At Source Machine (Machine A)

Write Something on YDB

$ ydb

YDB> s ^TEST(3.1)=1

YDB> w ^TEST(3.1)

At Receiver Machine (Machine B)

Read Something on YDB

$ ydb

YDB> w ^TEST(3.1)

At Receiver Machine (Machine C)

Read Something on YDB

$ ydb

YDB> w ^TEST(3.1)

LAB 3.2

Switch A to Follow B

At Source Machine (Machine A)

Shutdown Active Source Server

$ mupip replicate -source -shutdown -timeout=2

At Receiver Machine (Machine B)

    Shutdown Receiver Server

    $ mupip replicate -receiver -shutdown -timeout=2

    Shutdown Passive Source Server

    $ mupip replicate -source -shutdown -timeout=2 -inst=YDB_A

    Start Active Source Server (To A)

    $ mupip replicate -source -start -secondary={IP_of_Machine_A}:8989 -instsecondary=YDB_A -log=${ydb_log}/YDB_A_source_server.log

At Source Machine (Machine B)

    Write Something on YDB

    $ ydb

    YDB> s ^TEST(3.2)=1

    YDB> w ^TEST(3.2)

At Receiver Machine (Machine A)

    Read Something on YDB

    $ ydb

    YDB> w ^TEST(3.2)

At Receiver Machine (Machine C)

    Read Something on YDB

    $ ydb

    YDB> w ^TEST(3.2)

Switch B Back to Follow A

At Source Machine (Machine B)

     Shutdown Active Source Server 1 (To C)

     $ mupip replicate -source -shutdown -timeout=2 -inst=YDB_C

     Shutdown Active Source Server 2 (To A)

     $ mupip replicate -source -shutdown -timeout=2 -inst=YDB_A

At Receiver Machine (Machine A)

     Shutdown Receiver Server

     $ mupip replicate -receiver -shutdown -timeout=2

     Shutdown Passive Source Server

     $ mupip replicate -source -shutdown -timeout=2

     Start Active Source Server (To B)

     $ mupip replicate -source -start -secondary={IP_of_Machine_B}:8989 -instsecondary=YDB_B -log=${ydb_log}/YDB_B_source_server.log

At Source Machine (Machine A)

     Write Something on YDB

     $ ydb

     YDB> s ^TEST(3.2)=1

     YDB> w ^TEST(3.2)

At Receiver Machine (Machine B)

    Read Something on YDB

    $ ydb

    YDB> w ^TEST(3.2)

At Receiver Machine (Machine C)

    Read Something on YDB

    $ ydb

    YDB> w ^TEST(3.2)