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)