2Way WAN Optimizer

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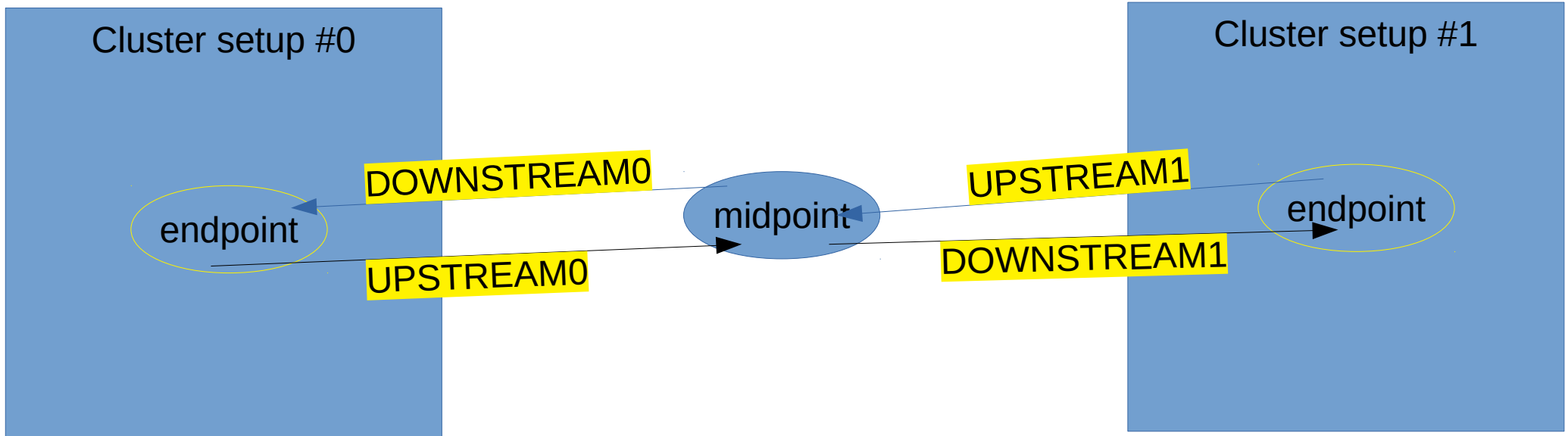Cell:+306993380810
GIT:https://github.com/DimitrisVlachos
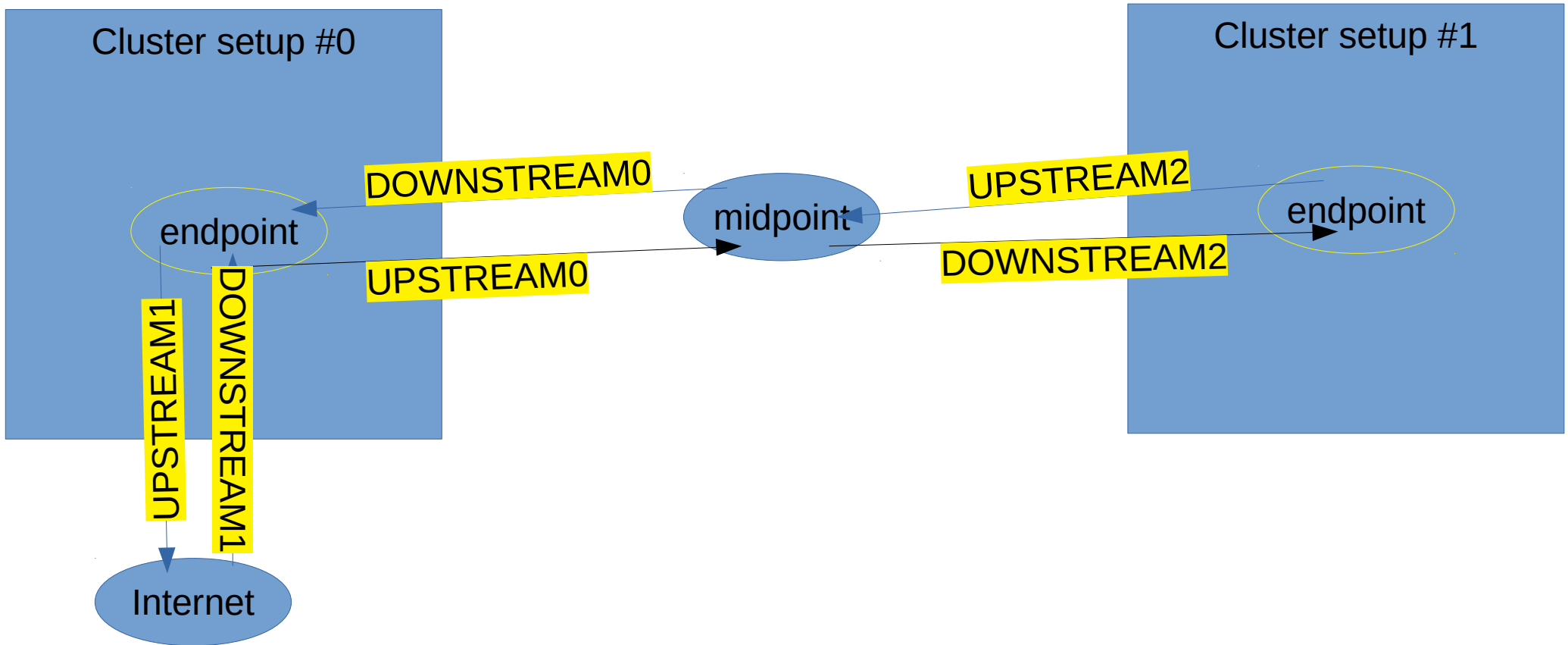
Quick Overview

You can think of "2Way WAN optimizer" as a proxy between multiple endpoints over the internet that attempts to reduce the bandwidth required to transfer , aiming for actual **cost** reduction over Satellite / 4-5G /etc networks.

Any protocol is supported allowing for transparent integration to existing infrastructures.
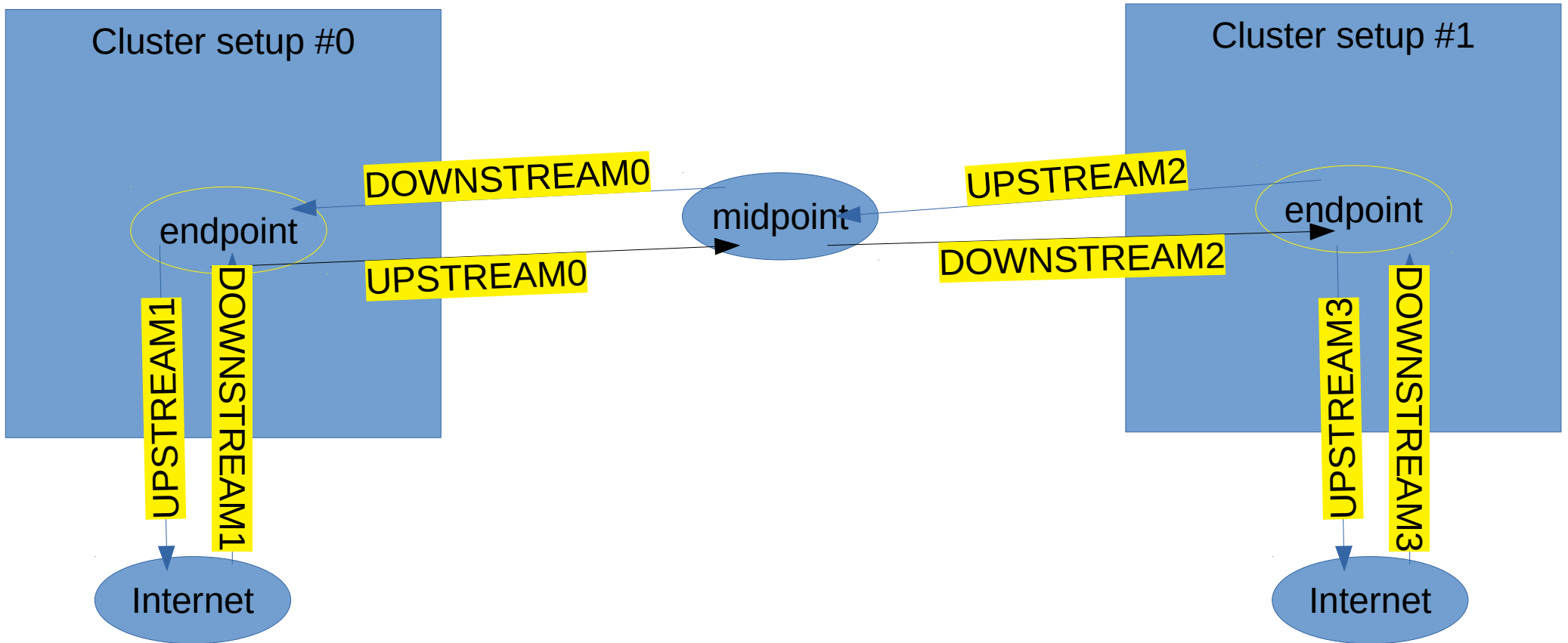
Currently it is implemented as a 100% software solution , but the general idea is to migrate it to the hardware level

Cluster setup #0

Cluster setup #1

endpoint

DOWNSTREAM0

midpoint

UPSTREAM1

endpoint

UPSTREAM0

DOWNSTREAM1

Local cluster setup over any network type without internet gateway

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Cluster setup #0

Cluster setup #1

DOWNSTREAM0

UPSTREAM2

endpoint

midpoint

endpoint

UPSTREAM0

DOWNSTREAM2

UPSTREAM1

DOWNSTREAM1

Internet

Local cluster setup over any network type with single internet gateway & packet re-routing

Cluster setup #0

Cluster setup #1

endpoint

midpoint

endpoint

DOWNSTREAM0

UPSTREAM2

UPSTREAM0

DOWNSTREAM2

UPSTREAM1

DOWNSTREAM1

UPSTREAM3

DOWNSTREAM3

Internet

Internet

Local cluster setup over any network type with multiple internet gateway & packet re-routing

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Features

- Variable length packets supported
- Any protocol is supported
- TCP packet cache with variable & scalable crypto keys for context validation
- Extreme compression for raw uncompressed chunks of data over protocols such as FTP
- Differential compression encoding phase
- Multiple packet merging to reduce tcp+ethernet header+minimum payload overhead
- Multiple encoding filters for actual data compression(Dictionary/Arithmetic/Context mixing)
- Context mixing powered by LSTM networks (Artificial Intelligence) for improved compression via supervised learning
- Transparent integration

Thank you :)