

Selium

Be productive in minutes.
Not days.

G'day!

me



Steve



What is messaging?

- Comms between two or more systems
- Generally async and stateful
- Various patterns - pub/sub, fanout, RPC

Why?



CONFLUENT



Apache

ACTIVEMQ



RabbitMQ

ØMQ



kafka



amazon
KINESIS

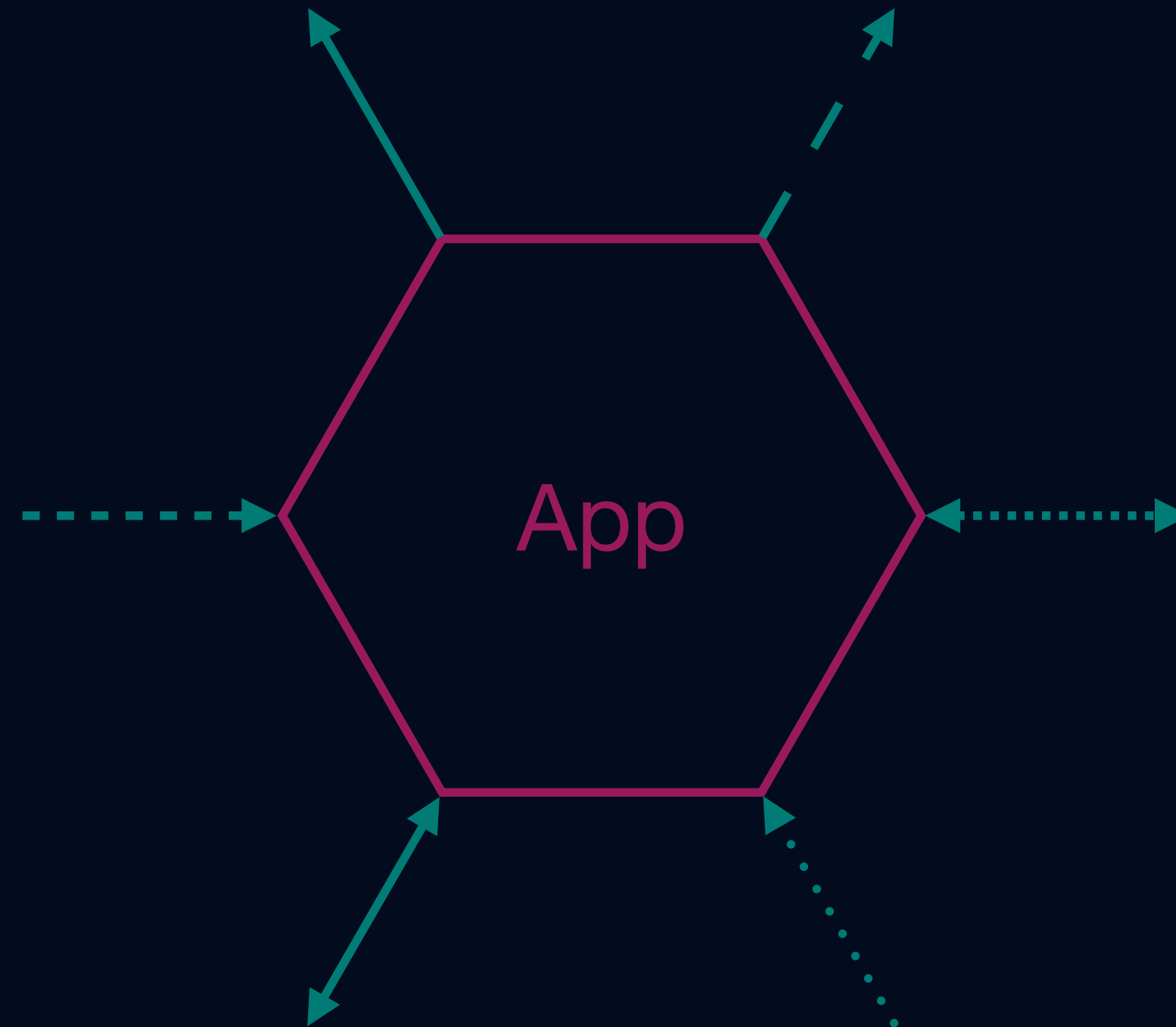


redis

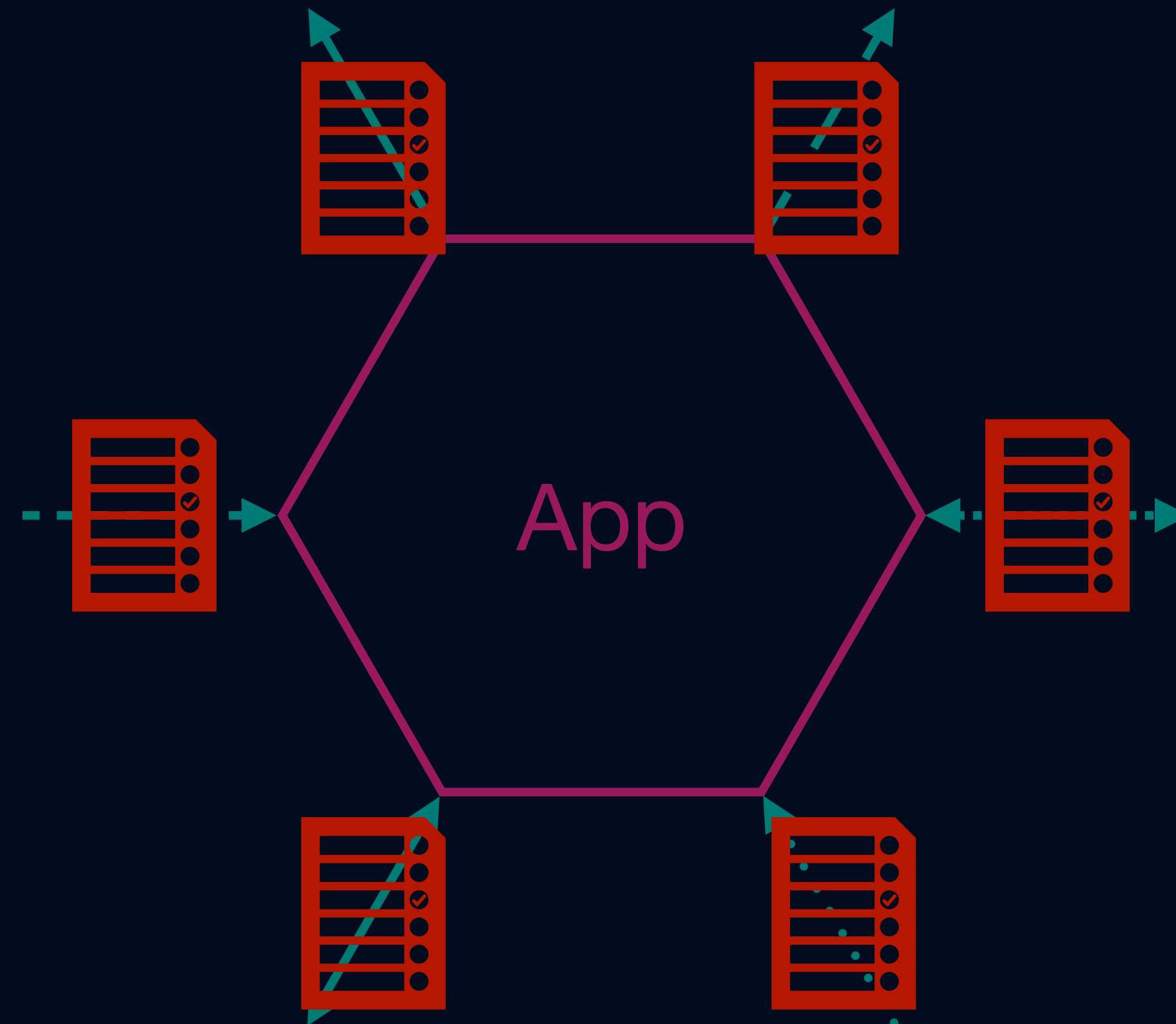


Google Cloud Pub/Sub

Apps have different types
of **communication**.



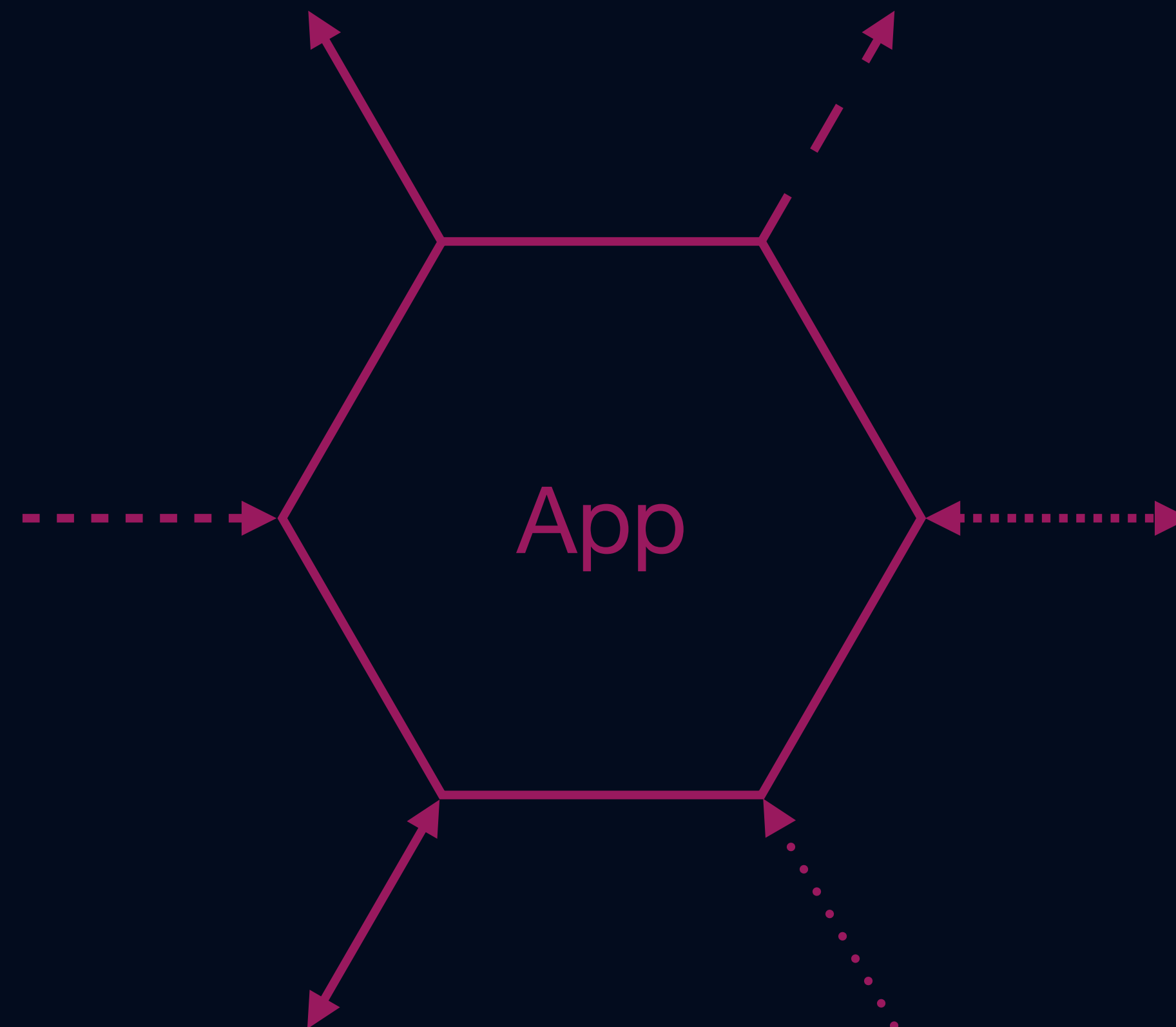
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Make **communication**
just work.



Subscribe to stock price

```
// Connect to Selium
let selium = ClientBuilder
    .new("/my-trading-firm/secret-project/dev") // Declare your namespace
    .use_localhost() // Connect to 127.0.0.1
    .await;
```

```
selium
    .subscribe("stocks")
    // Make sure every message gets delivered
    .guarantee(Delivery::AtLeastOnce)
    // Backup this stream in Selium for 10 days
    .retain_for(Duration::from_days(10))
    // Restart the stream from where we left off
    .replay_from(Cursor::LastOffset)
    // Filter out other stocks
    .filter(|offset, stock_update| stock_update.code == "AAPL")
    // Do something with the data...
    .for_each(|offset, stock_update| {
        println!("I like the stock!");
        future::ready(())
    })
    .await;
```

Publish awful jokes

```
// Connect to Selium
let selium = ClientBuilder
    .new("/my-trading-firm/secret-project/prod") // Declare your namespace
    .use_cloud() // Connect to selium.io
    .add_client_cert(client_cert) // Authenticate me
    .await;

// Publish random XKCD quotes
let sink = selium
    .publish("xkcd")
    // Duplicate this very important stream
    .redundancy(1) // @todo
    .await;
sink.send("This joke isn't very funny".into());
```

Ask very secret questions

```
// Connect to Selium
let selium = ClientBuilder
    .new("/my-trading-firm/public-project/uat") // Declare your namespace
    .use_cloud() // Connect to selium.io
    .add_client_cert(client_cert) // Authenticate me
    .add_server_cert(server_cert) // Authenticate Selium's server
    .await;
```

```
// Setup an RPC
selium
    .rpc("secrets")
    .try_for_each(|request| future::Ok("sshhh!"))
    .await?;
```

```
// Ask a question
let reply = selium.request("secrets").send("db_password".into()).await?;
dbg!(reply); // Ok("sshhh!")
```

Some fun specs

- Zero copy path
- Protocol ambivalent
- Reliable UDP
- Soon to be open source (contributions most welcome!)
- *More cool stuff...*



Sign up for updates
and early access
at selium.com

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