



```
trait Future {
    type Output;
    fn poll(
        self: Pin<&mut Self>,
            cx: &mut Context<'_>,
        ) -> Poll<Self::Output>;
}
```

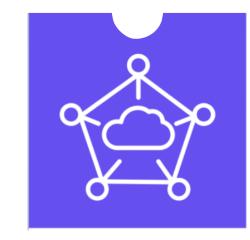
```
let timer: Timer = Timer{};
Pin::new(pointer: &mut timer).poll(cx);
```



What is an Async runtime?

Tokio main entry

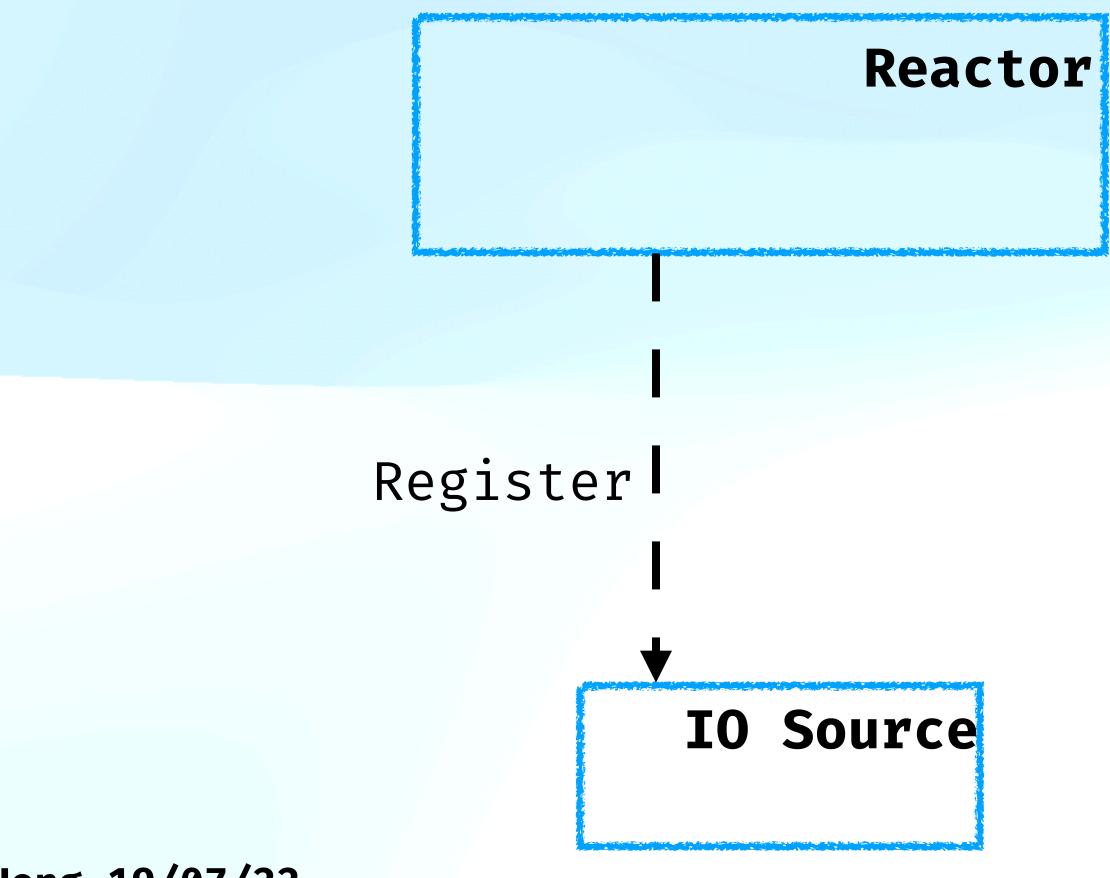
```
#[tokio::main]
async fn main() {
    ...
}
```

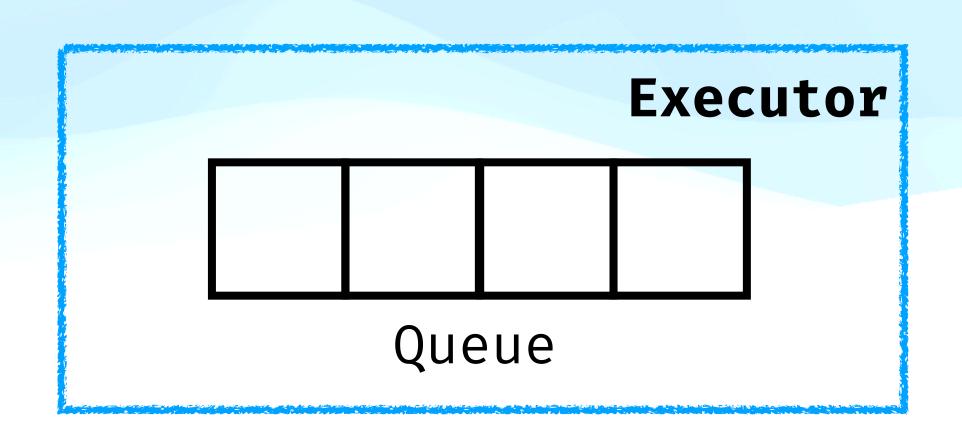


What is an Async runtime?



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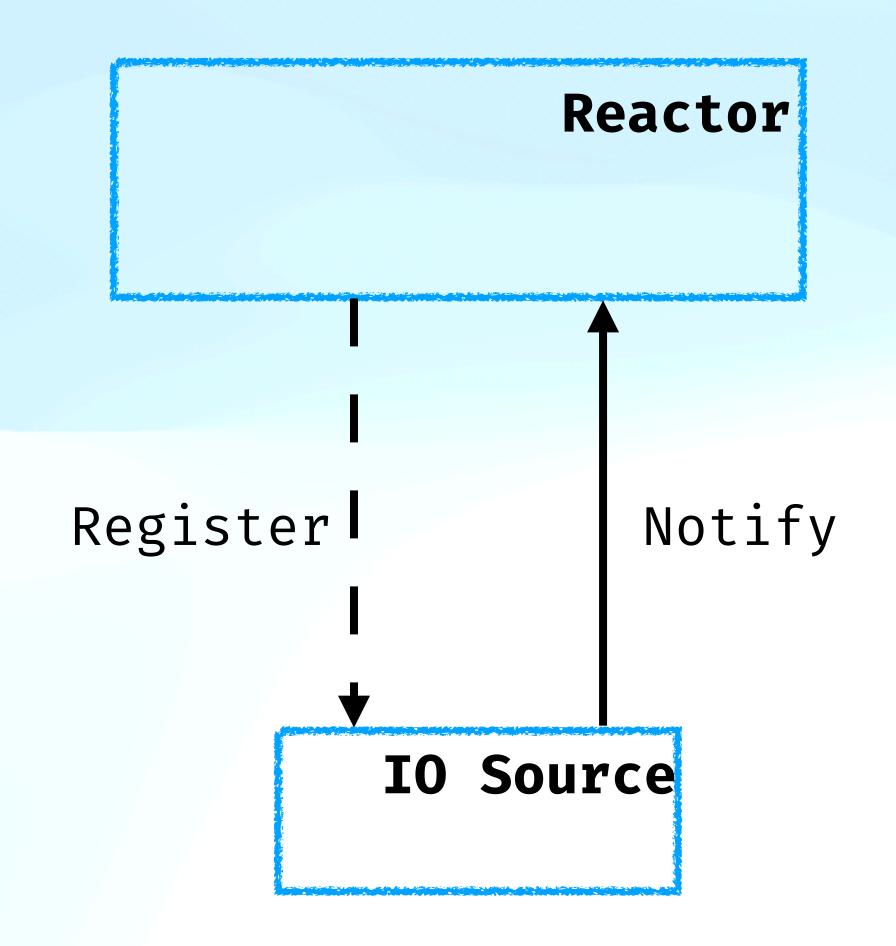


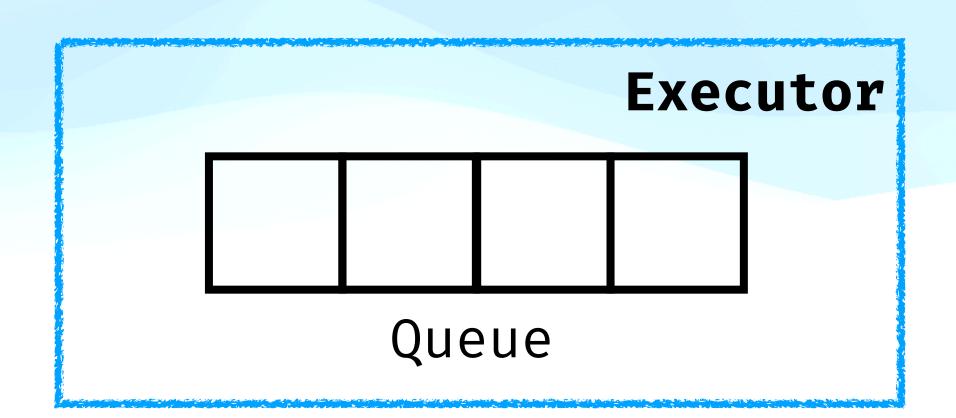




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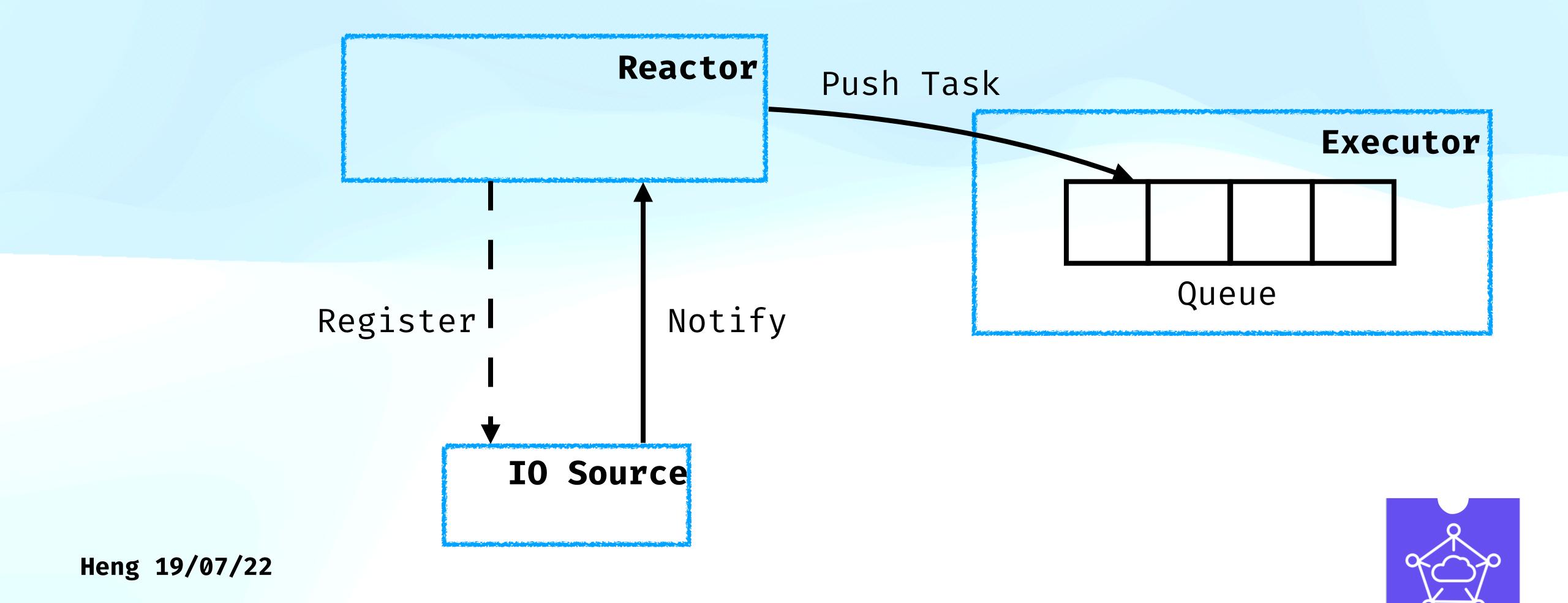


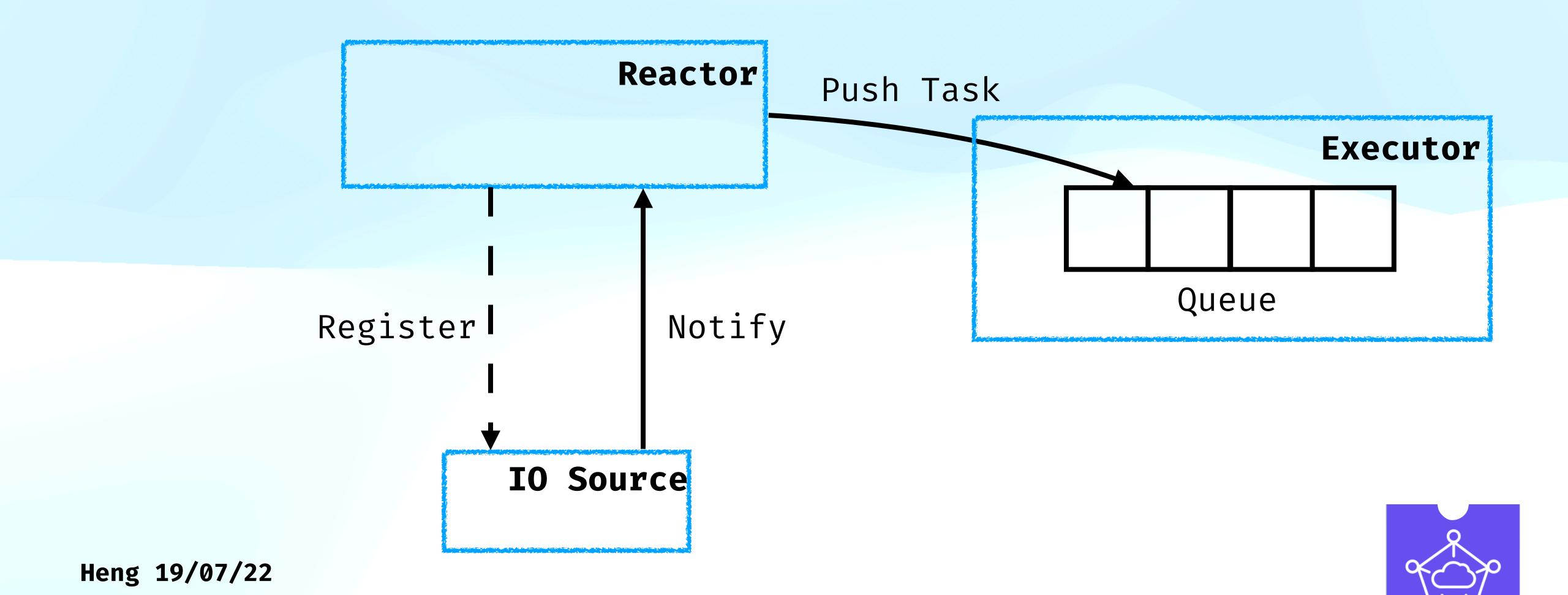


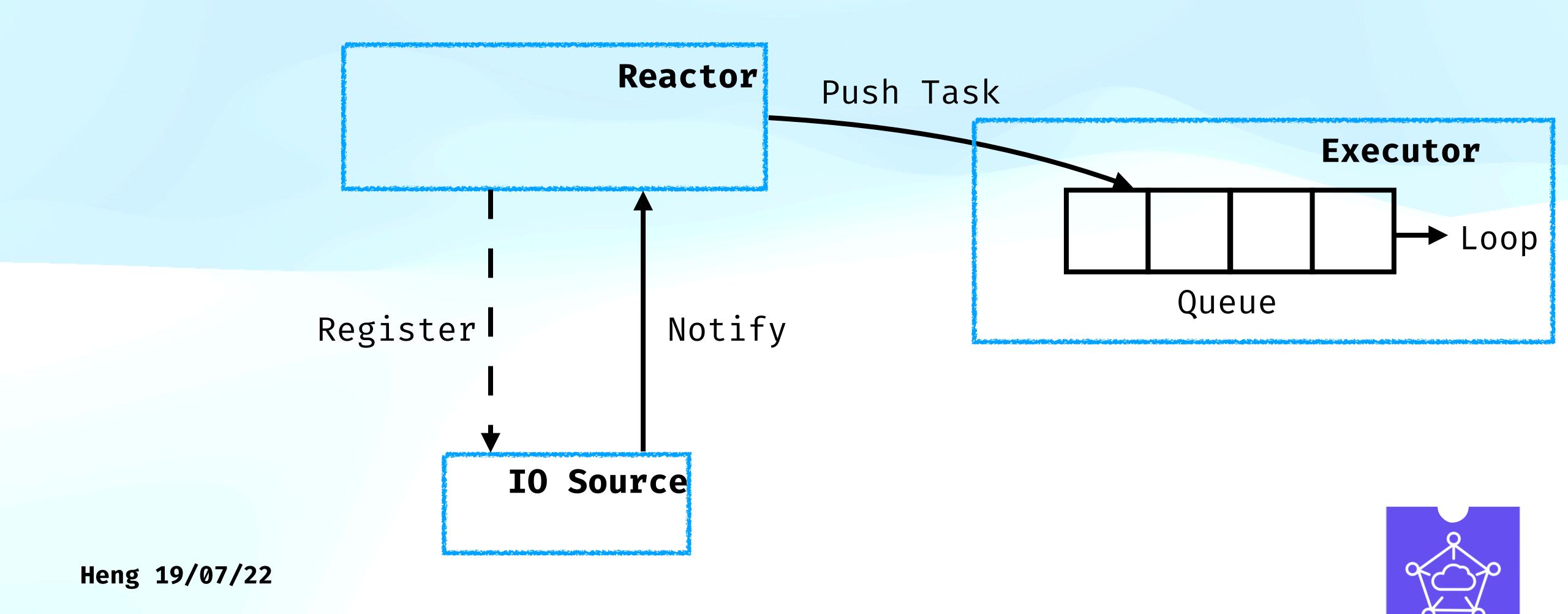


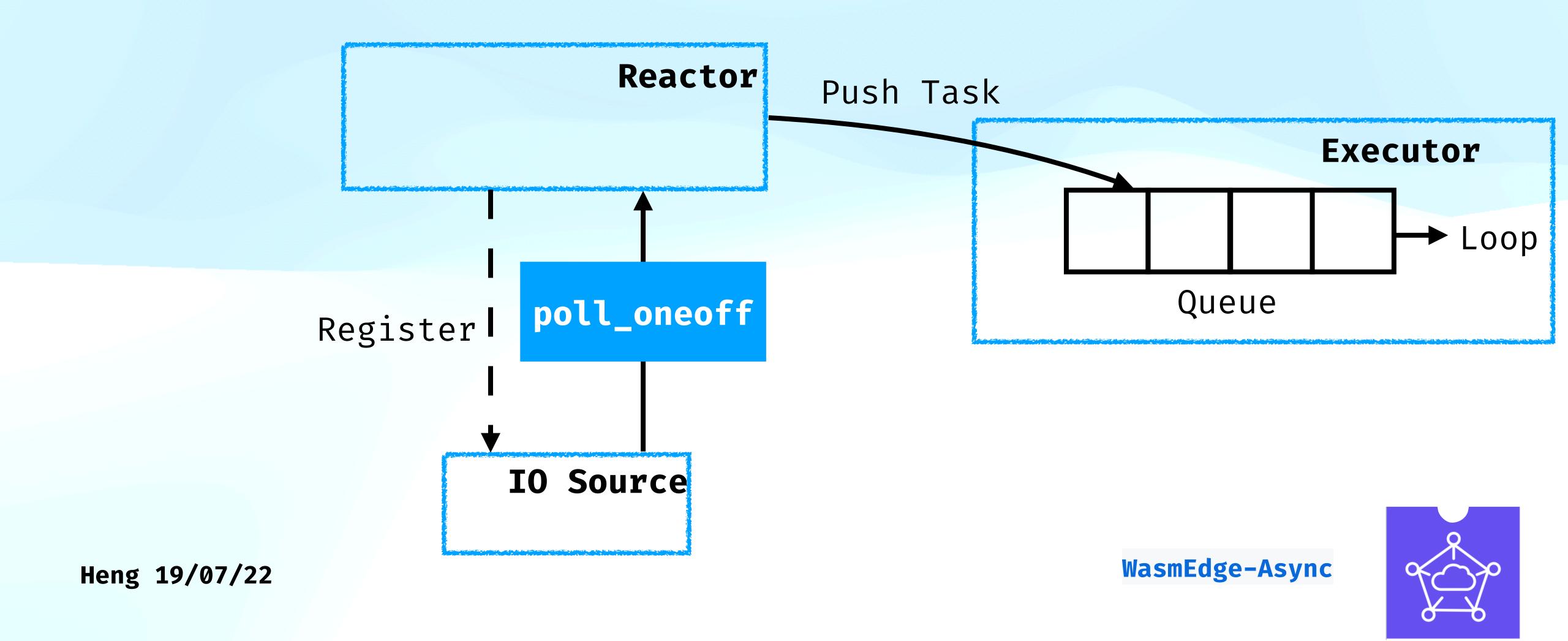
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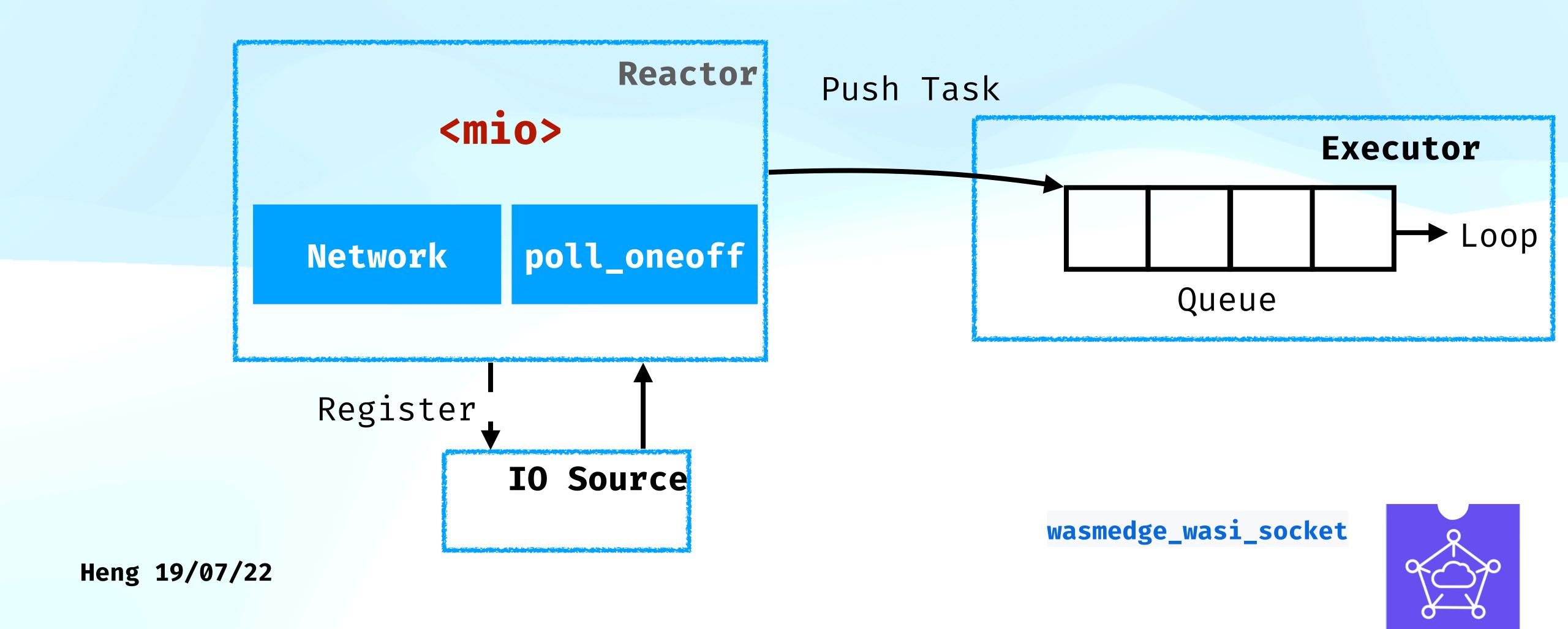
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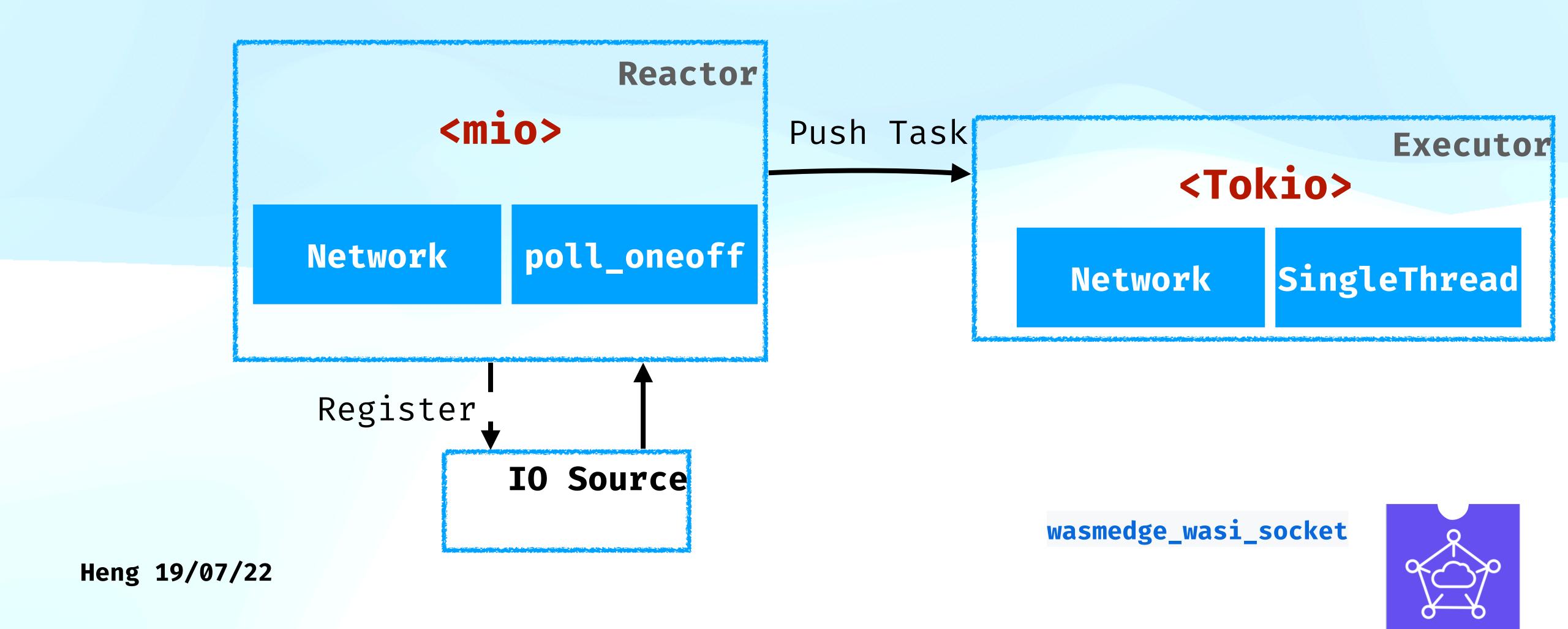












Demos!

mini-redis

hyper

```
hyper git:(master) cargo r --example client http://baidu.com
   Finished dev [unoptimized + debuginfo] target(s) in 0.34s
    Running `wasmedge target/wasm32-wasi/debug/examples/client.wasm 'http://baidu.com'`
create client
Response: 200 OK
Headers: {
    "date": "Tue, 19 Jul 2022 02:44:31 GMT",
    "server": "Apache",
    "last-modified": "Tue, 12 Jan 2010 13:48:00 GMT",
    "etag": "\"51-47cf7e6ee8400\"",
    "accept-ranges": "bytes",
   "content-length": "81",
    "cache-control": "max-age=86400",
    "expires": "Wed, 20 Jul 2022 02:44:31 GMT",
    "connection": "Keep-Alive",
    "content-type": "text/html",
b"<html>\n<meta http-equiv=\"refresh\" content=\"0;url=http://www.baidu.com/\">\n</html>\n"
```



The future of the async WASM.

Thread proposal

Async WASM



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