

LoadTest

API

, API

, LoadRunner

,

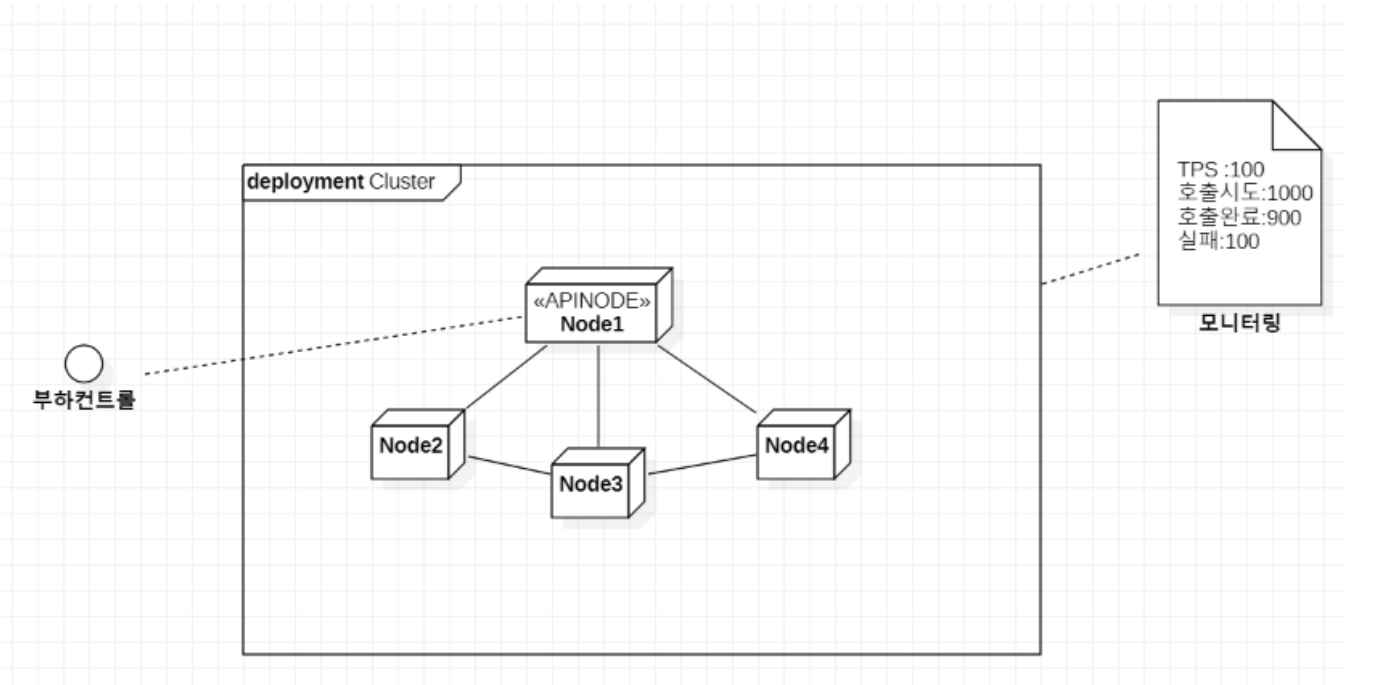
git :

<https://github.com/psmon/AkkaForNetCore>

-

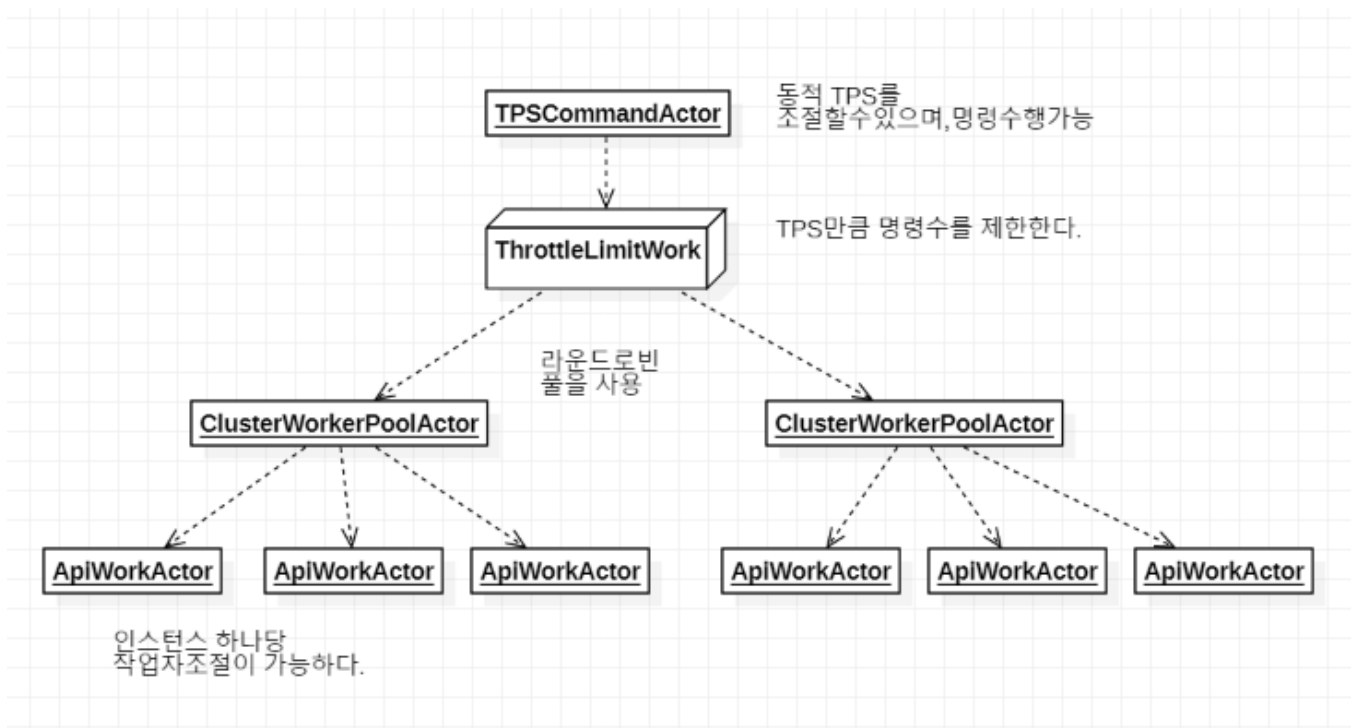
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Spec

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-
- 1 (ex> 300)
- , , TPS . (* .)
- . ()



(L7,Nginx) .

. - Akka

: <https://github.com/psmon/AkkaForNetCore/tree/master/AkkaNetCore/Actors/LoadTest>

API ApiWorkActor .

ApiCallSpec API , .(,Object.)

```

// ,TPS .
public class TPSCommandActor : ReceiveActor
{
    IActorRef batchActor;
    IActorRef throttleLimitWork;
    int seqNo;

    public TPSCommandActor(IActorRef workerPool)
    {
        seqNo = 0;

        // 1 . - FSM
        batchActor = Context.ActorOf(Props.Create(() => new BatchActor(1)));
        // TPS .
        throttleLimitWork = Context.ActorOf(Props.Create(() => new ThrottleLimitWork()));

        // .
        batchActor.Tell(new SetTarget(throttleLimitWork));
        // .()
        throttleLimitWork.Tell(new SetTarget(workerPool));

        // 5 .
        throttleLimitWork.Tell(5);

        // .
        ReceiveAsync<int>(async limit =>
        {
            throttleLimitWork.Tell(limit);
        });

        // LoadTest .
        // batchActor -> throttleLimitWork -> _worker
        ReceiveAsync<ApiCallSpec>(async msg =>
        {
            msg.SeqNo = seqNo; //
            // Queue .
            batchActor.Tell(new Queue(msg));
            seqNo++;
        });
    }

    protected override void PreStart()
    {
        Context.IncrementActorCreated();
    }

    protected override void PostStop()
    {
        Context.IncrementActorStopped();
    }
}

```

```
dotnet run --configuration Release --project AkkaNetCore --environment "Development" --port 5001 --akkaip 127.0.0.1 --akkaport 7100 --roles akka-net --akkaseed akka.tcp://actor-cluster@127.0.0.1:7100 --MonitorTool win

dotnet run --no-build --configuration Release --project AkkaNetCore --environment "Development" --port 5002 --akkaip 127.0.0.1 --akkaport 5102 --roles akka-net,api-work --akkaseed akka.tcp://actor-cluster@127.0.0.1:7100 --MonitorTool win

dotnet run --no-build --configuration Release --project AkkaNetCore --environment "Development" --port 5003 --akkaip 127.0.0.1 --akkaport 5103 --roles akka-net,api-work --akkaseed akka.tcp://actor-cluster@127.0.0.1:7100 --MonitorTool win
```

```
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, .
Akka .
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. P2P , Zero .
```

```
,
TPS Api .
```

- : 2
- (work) : int workCount = 10;
, API .(50~300)
. -



ApiTest.mp4

, .
MSA , .

: 4 .

- [Cluster with Actor](#)
- [Stream - ThrottleActor](#)
- [Finite State Machines](#)
- [Real time performance counters](#)