

First Actor

✓

1. (.)

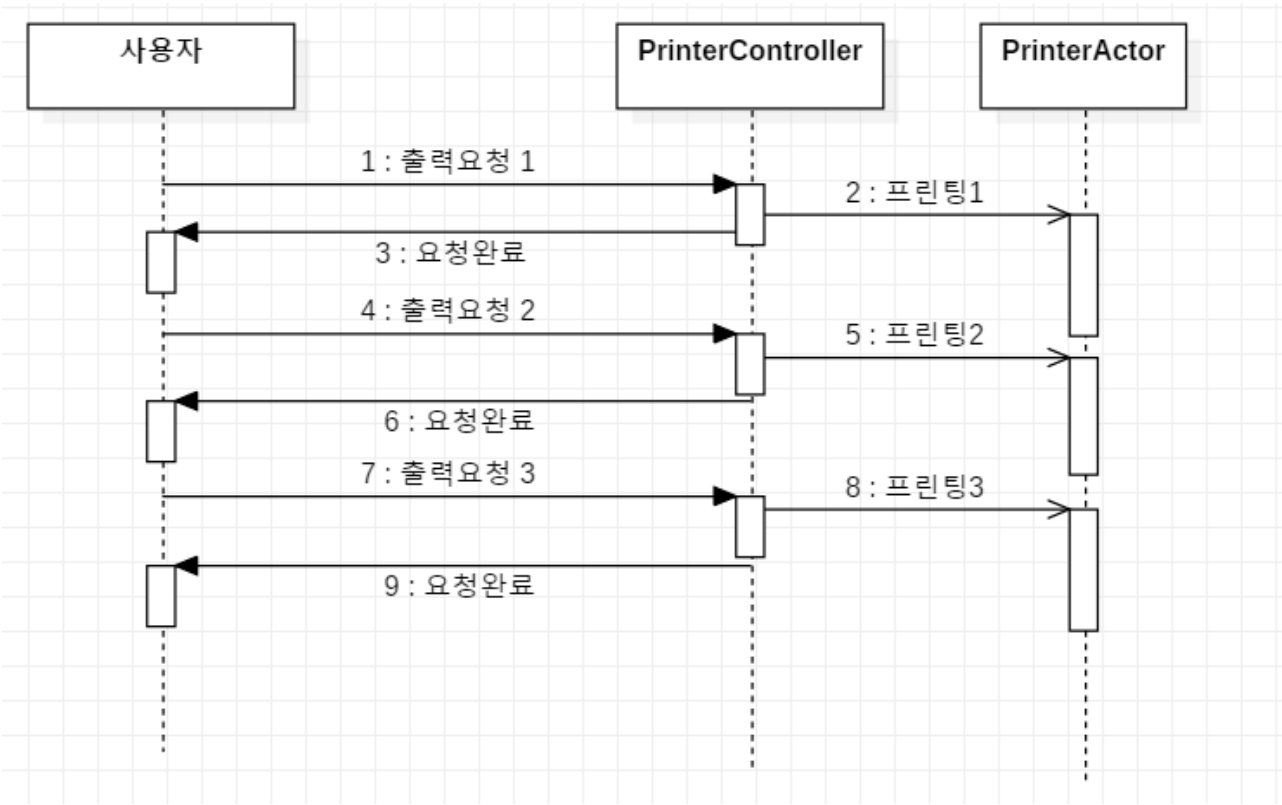
2. (, .)

3.

• : . ()
• : , .
• : .

(.)

• :
DB , Redis Write .



- : :
- : :
- PrinterController : API
- PrinterActor :

```
public class PrintPage
{
    public int SeqNo { get; set; }

    public int DelayForPrint { get; set; } //

    public string Content { get; set; }

    public override string ToString()
    {
        return $"SeqNo:{SeqNo} Content:{Content}";
    }
}
```

, , API .

, .

```
public class PrinterActor : ReceiveActor
{
    private readonly ILoggingAdapter logger = Context.GetLogger();
    private readonly string id;

    public PrinterActor()
    {
        id = Guid.NewGuid().ToString();
        logger.Info($" :{id}");

        // , Type
        // . ( ex> type )
        // Type .
        // , .

        ReceiveAsync<PrintPage>(async page =>
        {
            logger.Debug($" :{page}");
            await Task.Delay(page.DelayForPrint);
            logger.Debug($" :{page}");
        });
    }
}
```

PrintPage .. ()

.

,

UntypedActor . (<https://getakka.net/articles/actors/untyped-actor-api.html>)

, .

```

[Route("api/[controller]")]
[ApiController]
public class PrinterController : Controller
{
    private IActorRef printerActor;

    public PrinterController()
    {
        printerActor = AkkaLoad.ActorSelect("printer")
    }

    // POST api/values
    [HttpPost]
    public void Post([FromBody] PrintPage value)
    {
        // .
        printerActor.Tell(value);
    }
}

```

API Object Tell .

API .

```

AkkaLoad.RegisterActor(
    "printer", // , .
    actorSystem.ActorOf(Props.Create<PrinterActor>()
        .WithRouter(new RoundRobinPool(1)),
        "printerActor" // .())
));

```

PrinterActor .

1 RoundRobinPool 1. 2

2 .(, .)

.- : [Routers](#)

, .

... RoundRobinPool

N .

.

.

- Lock/Unlock ,
- ,
- 10.. 90%
- , (, TCP)

: <https://getakka.net/articles/intro/what-problems-does-actor-model-solve.html>

```

AkkaNetCore
[2019-11-03 17:31:48.3470] [Debug] [PSMON-GRAM] [AKKA] [ACTOR]
[Akka.Event.EventStream] [6] : Logger log1-NLogLogger [NLogLo
gger] started
[2019-11-03 17:31:48.5333] [Debug] [PSMON-GRAM] [AKKA] [ACTOR]
[Akka.Event.EventStream] [6] : StandardOutLogger being remove
]
[2019-11-03 17:31:48.5333] [Debug] [PSMON-GRAM] [AKKA] [ACTOR]
[Akka.Event.EventStream] [6] : Default Loggers started
[2019-11-03 17:32:43.5333] [Info] [PSMON-GRAM] [AKKA] [ACTOR]
[AkkaNetCore.Actors.PrinterActor] [6] : 프린터 액터 생성:90f47
1d7-4ad0-42c0-82de-d1673ecedble
[2019-11-03 17:32:40.7583] [Debug] [PSMON-GRAM] [AKKA] [ACTOR]
[AkkaNetCore.Actors.PrinterActor] [10] : 프린터 요청 들어옴:S
eqNo:0 Content:테스트 페이지 출력 - 저자:웹노리
[2019-11-03 17:32:43.7713] [Debug] [PSMON-GRAM] [AKKA] [ACTOR]
[AkkaNetCore.Actors.PrinterActor] [10] : 페이지 출력 완료:Seq
No:0 Content:테스트 페이지 출력 - 저자:웹노리
[2019-11-03 17:32:43.7713] [Debug] [PSMON-GRAM] [AKKA] [ACTOR]
[AkkaNetCore.Actors.PrinterActor] [10] : 프린터 요청 들어옴:S
eqNo:0 Content:테스트 페이지 출력 - 저자:웹노리
[2019-11-03 17:32:46.7766] [Debug] [PSMON-GRAM] [AKKA] [ACTOR]
[AkkaNetCore.Actors.PrinterActor] [6] : 페이지 출력 완료:SeqN
o:0 Content:테스트 페이지 출력 - 저자:웹노리
[2019-11-03 17:32:46.7766] [Debug] [PSMON-GRAM] [AKKA] [ACTOR]
[AkkaNetCore.Actors.PrinterActor] [6] : 프린터 요청 들어옴:Se
qNo:0 Content:테스트 페이지 출력 - 저자:웹노리
[2019-11-03 17:32:49.7809] [Debug] [PSMON-GRAM] [AKKA] [ACTOR]
[AkkaNetCore.Actors.PrinterActor] [4] : 페이지 출력 완료:SeqN
o:0 Content:테스트 페이지 출력 - 저자:웹노리

```

POST /api/Printer

Parameters

Name	Description
value (body)	Edit Value Model <pre>{ "seqNo": 0, "delayForPrint": 3000, "content": "테스트 페이지 출력 - 저자:웹노리" }</pre>

Cancel

Parameter content type
application/json-patch+json

API , 3(3000) , .()

Swagger Logger,

AKKA , Swagger , Logger .

- - .