


03. First Actor

 Actor , RestAPI

ASK RestAPI .

Http Akka Http

Actor PlayFramework

Dependency

build.sbt

```
val akkaVersion = "2.5.8"

libraryDependencies += Seq(
  "com.typesafe.akka" %% "akka-actor" % akkaVersion,
  "com.typesafe.akka" %% "akka-stream" % akkaVersion,
  "com.typesafe.akka" %% "akka-slf4j" % akkaVersion,
  // Only if you are using Akka Testkit
  "com.typesafe.akka" %% "akka-testkit" % akkaVersion % Test,
  "com.typesafe.akka" %% "akka-stream-testkit" % akkaVersion % Test
)
```

Actor

actors/HelloActor.scala

```
package actors

import akka.actor._

object HelloActor {
  def props = Props[HelloActor]

  case class SayHello(name: String)
}

class HelloActor extends Actor {
  import HelloActor._

  def receive = {
    case SayHello(name: String) =>
      sender() ! "Hello, " + name
  }
}
```

SCALA OOP ,

Controller

controllers/Application.scala

```
package controllers

import actors.HelloActor
import actors.HelloActor.SayHello
import akka.actor._
import akka.pattern.ask
import akka.util.Timeout
import javax.inject._
import play.api.mvc._

import scala.concurrent.ExecutionContext
import scala.concurrent.duration._

@Singleton
class Application @Inject() (system: ActorSystem, cc: ControllerComponents)
    (implicit ec: ExecutionContext) extends AbstractController(cc) {

    implicit val timeout: Timeout = 5.seconds

    val helloActor = system.actorOf(HelloActor.props, "hello-actor")

    def sayHello(name: String) = Action.async {
        (helloActor ? SayHello(name)).mapTo[String].map { message =>
            Ok(message)
        }
    }
    //...
}
```

Java Spring , .

JAVA, .NET

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- JAVA : <http://araiuma.tistory.com/291>
- .NET : <https://docs.microsoft.com/ko-kr/aspnet/core/fundamentals/dependency-injection?view=aspnetcore-2.1>

Routes

conf/routes

```
# Actor Test
GET    /hello/:name                controllers.Application.sayHello(name)
```

endpoint routes

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Result

← → ↻ ⓘ localhost:9000/hello/psmon

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Hello, psmon

API .