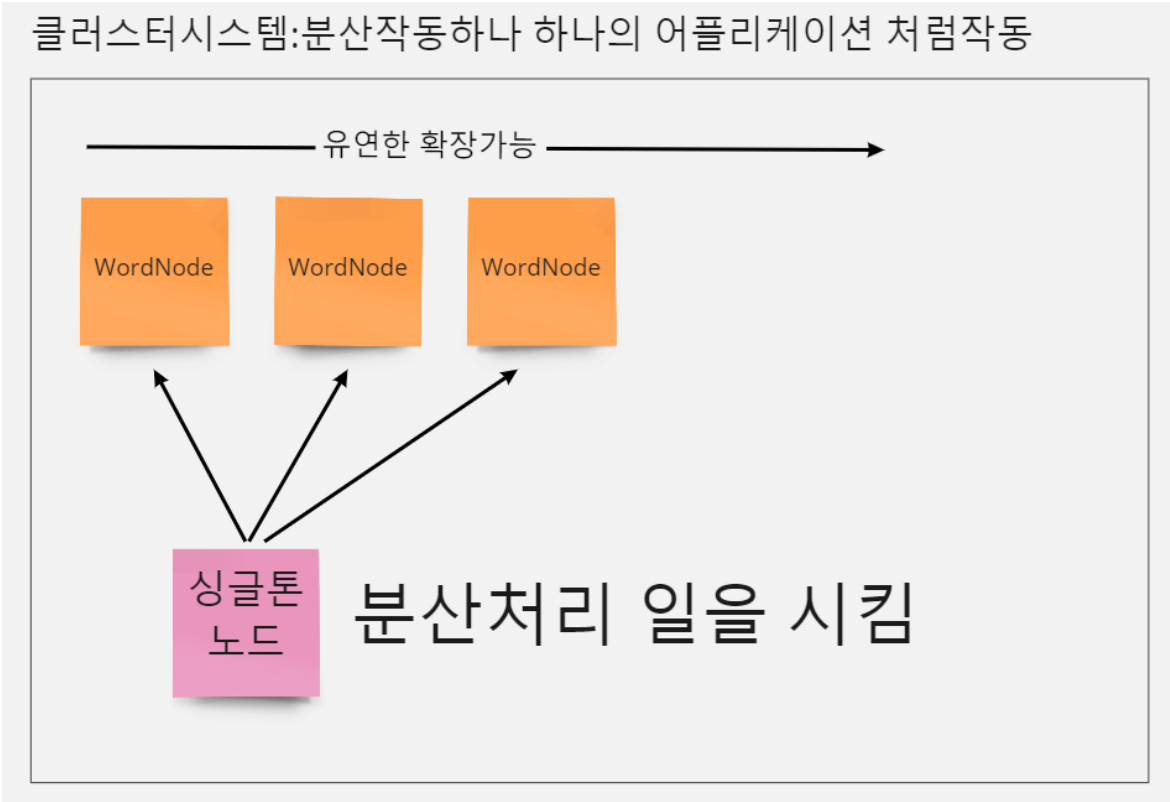


NetCoreCluster




[: https://github.com/psmon/NetCoreCluster](https://github.com/psmon/NetCoreCluster)





- Alone .
- Docker-Compose .
- Docker-Compose .


Application LayOut


솔루션 'NetCoreCluster' (3/3개 프로젝트)

▶  Solution Items

▶  docker-compose-infra

 .dockerignore

 Y: docker-compose.yml

▶  C# LightHouse

▶  C# NetCoreCluster

- LightHouse : , .
- NetCoreCluster : / .
- docker-compose-infra : . 2, N . (MSA)

NetCoreCluster-StandAlone , SeedNode Seed . (, Seed .)

```
{
  "$schema": "http://json.schemastore.org/launchsettings.json",
  "profiles": {
    "Local-Development": {
      "commandName": "Project",
      "launchBrowser": false,
      "launchUrl": "help/",
      "environmentVariables": {
        "ASPNETCORE_ENVIRONMENT": "Development",
        "CLUSTER_PORT": "7100",
        "CLUSTER_IP": "127.0.0.1",
        "CLUSTER_SEEDS": "akka.tcp://NetCoreCluster@127.0.0.1:7100",
        "CLUSTER_ROLES": "WorkNode,AdminNode",
        "ACTORSYSTEM": "NetCoreCluster"
      },
      "applicationUrl": "http://localhost:7000"
    }
  }
}
```

VisualStudio , .

```
<?xml version="1.0" encoding="utf-8"?>
<Project ToolsVersion="15.0" Sdk="Microsoft.Docker.Sdk">
  <PropertyGroup Label="Globals">
    <ProjectVersion>2.1</ProjectVersion>
    <DockerTargetOS>Linux</DockerTargetOS>
    <ProjectGuid>a325c35e-28e0-43ce-b28f-516dc1568e18</ProjectGuid>
    <DockerLaunchAction>None</DockerLaunchAction>
    <DockerServiceUrl>{Scheme}://localhost:{ServicePort}/swagger</DockerServiceUrl>
    <DockerServiceName>akka-infra</DockerServiceName>
  </PropertyGroup>
  <ItemGroup>
    <None Include="docker-compose.yml" />
    <None Include=".dockerignore" />
  </ItemGroup>
</Project>
```

: <https://docs.microsoft.com/ko-kr/visualstudio/containers/overview?view=vs-2019>

DockerCompose .

```

version: '3.4'

services:
  lighthouse:
    image: ${DOCKER_REGISTRY-}lighthouse
    build:
      context: .
      dockerfile: ../LightHouse/Dockerfile
    environment:
      ACTORSYSTEM: NetCoreCluster
      CLUSTER_IP: lighthouse
      CLUSTER_PORT: 4053
      CLUSTER_SEEDS: akka.tcp://NetCoreCluster@lighthouse:4053
    ports:
      - 4053

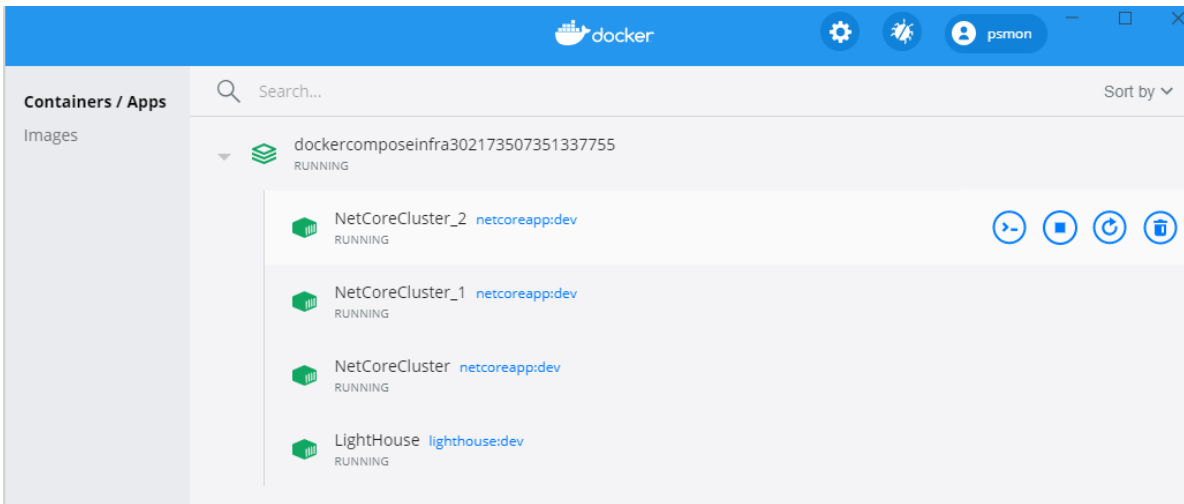
  netcoreapp1:
    image: ${DOCKER_REGISTRY-}netcoreapp
    build:
      context: .
      dockerfile: ../NetCoreCluster/Dockerfile
    environment:
      ASPNETCORE_ENVIRONMENT: Development
      ACTORSYSTEM: NetCoreCluster
      CLUSTER_IP: netcoreapp1
      CLUSTER_PORT: 7000
      CLUSTER_SEEDS: akka.tcp://NetCoreCluster@lighthouse:4053
      CLUSTER_ROLES: "WorkNode"
    depends_on:
      - "lighthouse"

  netcoreapp2:
    image: ${DOCKER_REGISTRY-}netcoreapp
    build:
      context: .
      dockerfile: ../NetCoreCluster/Dockerfile
    environment:
      ASPNETCORE_ENVIRONMENT: Development
      ACTORSYSTEM: NetCoreCluster
      CLUSTER_IP: netcoreapp2
      CLUSTER_PORT: 7000
      CLUSTER_SEEDS: akka.tcp://NetCoreCluster@lighthouse:4053
      CLUSTER_ROLES: "WorkNode"
    depends_on:
      - "netcoreapp1"

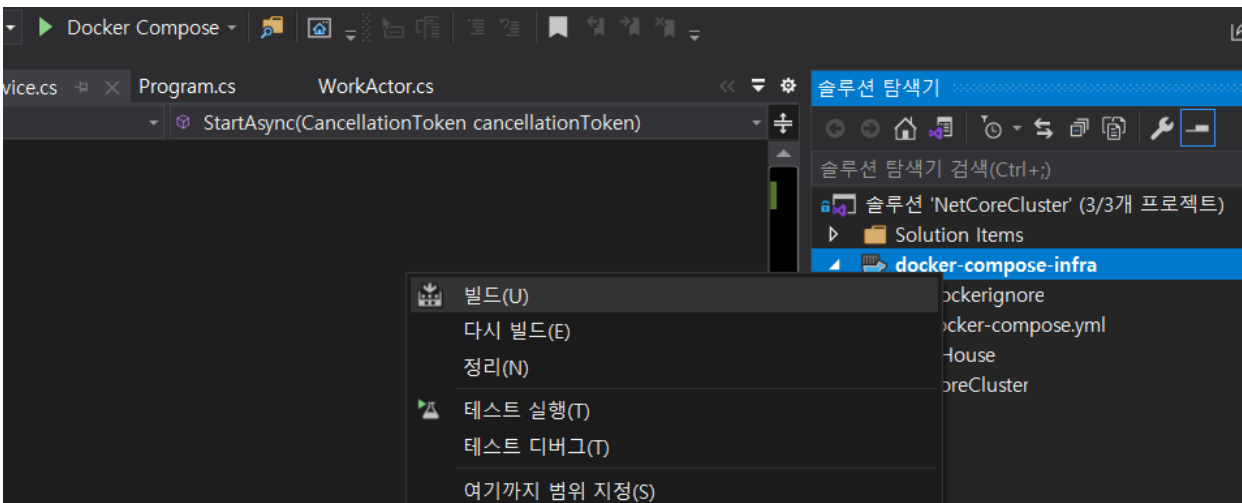
  netcoreapp3:
    image: ${DOCKER_REGISTRY-}netcoreapp
    build:
      context: .
      dockerfile: ../NetCoreCluster/Dockerfile
    environment:
      ASPNETCORE_ENVIRONMENT: Development
      ACTORSYSTEM: NetCoreCluster
      CLUSTER_IP: netcoreapp3
      CLUSTER_PORT: 7000
      CLUSTER_SEEDS: akka.tcp://NetCoreCluster@lighthouse:4053
      CLUSTER_ROLES: "AdminNode"
    depends_on:
      - "netcoreapp2"

```

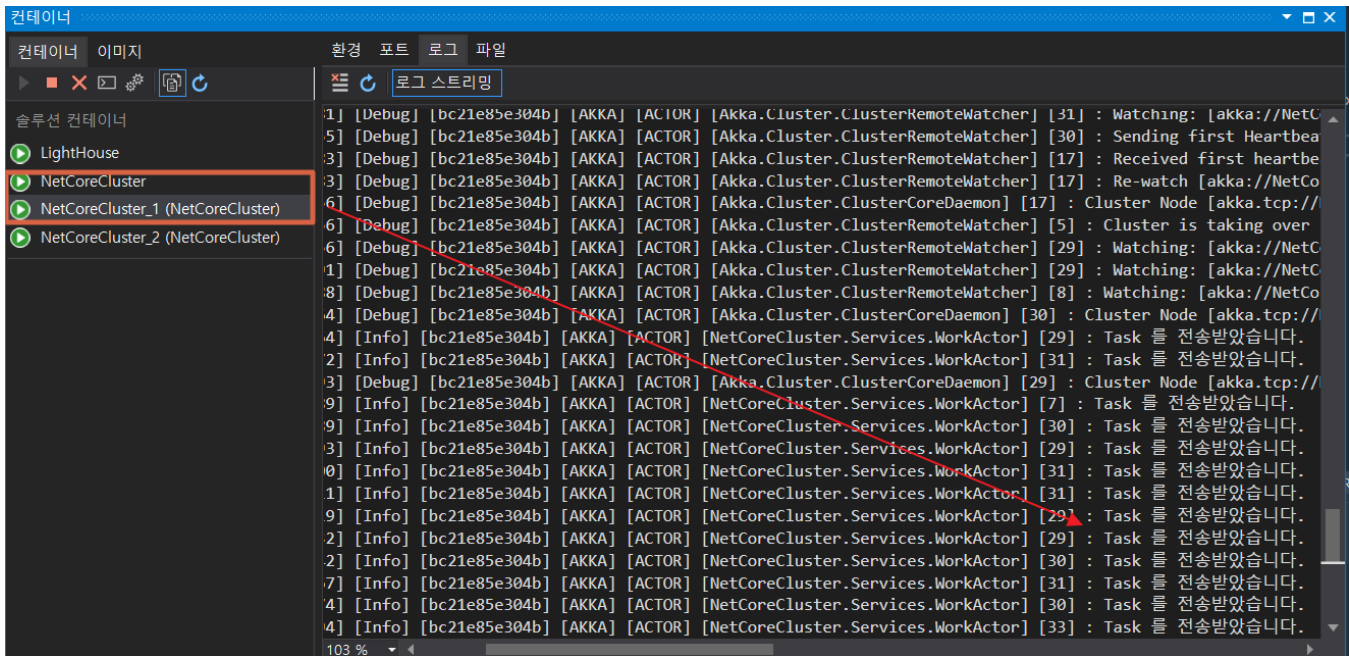
- WorkNode: Node.
- AdminNode: WorkNode .



visual studio ,



N App



- LightHouse : , , .
- NetCoreCluste / NetCoreCluste_1 : .
- NetCoreCluste_2 : .

Q&A

1. SeedNode(LightHouse) ? , , .
2. SeedNode ? SeedNode .
3. WorkNode ? , WorkNode Task .
4. WokrNode ? Task Node Task .
5. ? .
6. ? , Kafka Akka GraceFulDown .

Akka .

:

- [Cluster with Actor](#)