

*Monitoring*

## Application Monitoring

- Monitors application health through counters,Cpu,Ram,memory Usage, running threads, process e.t.c
- changing application configuration at Run time through user Interface
- Triggers Management and Orchestration unit to increase/decrease application and Cluster instances as per application and cluster.

*NRF*

## Network Repository Function

- centralized repository for all 5G Network Functions
- It allows NFs to register and discover each other via standards apis
- It allows discovery and registration via Oauth Tokens to prevent phishing attacks

*Management  
and  
Orchestration*

## Management and Orchestration via Docker

- Spin up Application Instance depending upon cluster health through OAM trigger
- Spin up new Cluster depending upon Load/traffic Spike through Oam trigger

*Logging Module*

## Logging Module

- Aggregates and Stores runtime Application Logs
- Fetch Logs based on Data,Level,Request type via standard Apis
- Trace a particular Flow comprising other nodes for debug/RCA

*LB+Cluster  
Onboarding*

## Load Balancer + Cluster Onboarding

- Used as application level Load balancer(L6)
- used for cluster onboarding by registering cluster in 5g core through NRF.

*Instance1*

## Application Instance

- User Registration/Deregistration in 5g Core network
- Provides Message Service in 5G core architecture