



fledge.io simplifies lifecycle management of distributed applications across multi-cloud and edge

Challenge

Deploying and operating geographically diverse applications spanning multi-cloud and edge is complex.

Solution

fledge.io offers out-of-the box, multi-cloud capable solution that simplifies distributed application management.

Benefits

- Extend apps across multi clouds, edge easily at scale
- Enable data proximity and real-time decision making capabilities at the edge
- Optimize costs by being cloud & vendor agnostic
- Reduce time and effort for app-infra management

Multi-Cloud and Edge Computing

Applications are increasingly distributed across multi-cloud and edges. Low latency (real time), GDPR and cost demand proximity to end users and data sources.

These applications process more data at the edges to make real-time decisions and require sophisticated data collection and distribution infrastructure.

The Challenge

Such applications exhibit heterogeneity due to location specific needs. They range from bare-metal to VMs, standalone containers to multi-kubernetes clusters across multi-clouds, datacenters, small edges.

Managing such applications requires resilient, scalable application orchestration, secure connectivity & data infrastructure, real-time visibility and policy framework.

fledge.io solution

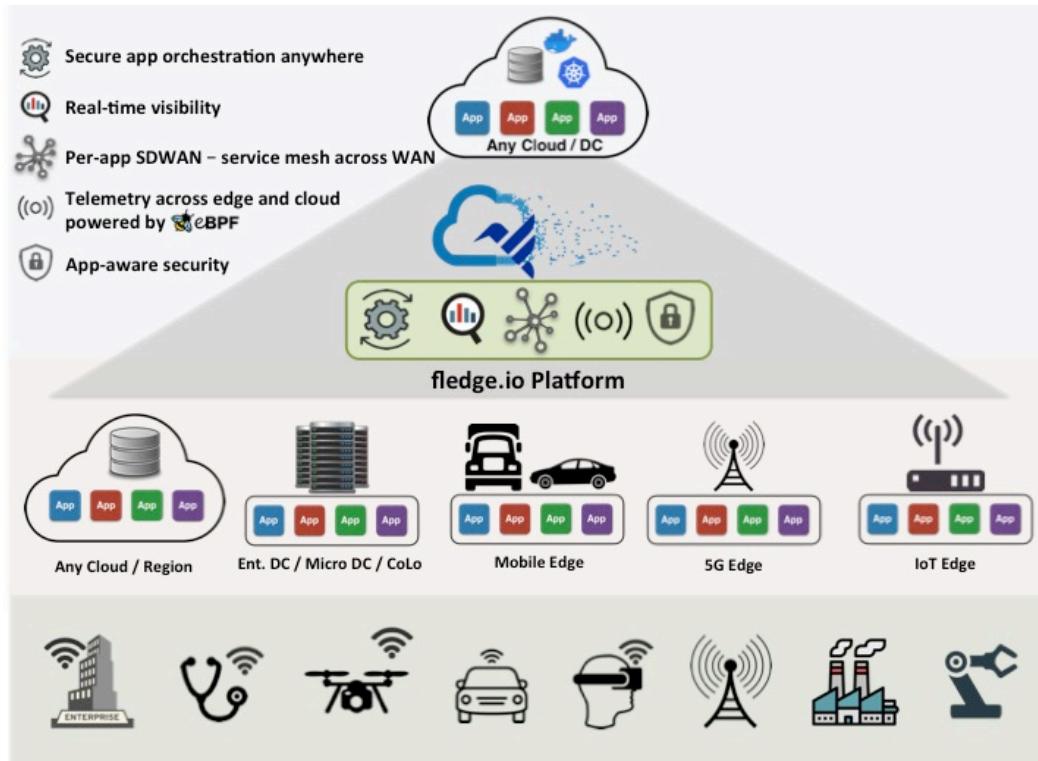
fledge.io simplifies application management across multi-cloud and edge environments.

fledge.io product features

- [Resilient Application Orchestration](#) - for both standalone containers, multi-kubernetes clusters
- [Per-app SDWAN](#) - secure, transparent, dynamic application service-mesh connectivity
- [eBPF Powered Telemetry](#) - built-in data collection and distribution infrastructure
- [Application Aware Security](#) - dynamic and app-specific with inline high performance packet filtering
- [Application Lifecycle Management](#) - canary style upgrades, policy-based live migrations
- [Any application](#) - including hardware accelerated

Reimagine application delivery with fledge.io

fledge.io is a Silicon Valley based startup. The team has deep technical and business experience in Cloud, Datacenter infrastructure paradigms.



fledge.io Application Aware eBPF -as-a-service for multi-cloud and edge

Experience the power of eBPF for your application infrastructure with fledge eBPF. Gather rich, real-time, application-specific information (cpu, memory, disk, network) at high performance.

fledge eBPF libraries are deployed automatically on fledge managed nodes. The real-time data is available to be consumed via APIs by applications as well as dashboards for visualization. fledge eBPF is integral to fledge orchestration, telemetry and service-mesh framework.

What can fledge eBPF offer to your geo-distributed applications?

Better root-cause analysis - Examine application information and performance, better understand location specific issues with data available on each node at each location.

Real-time application (re)orchestration - Application orchestration is usually done based on heuristics e.g. cpu, network profile etc. Such policies can be limiting. With fledge eBPF, granular metrics can be collected and policy-based dynamic application re-orchestration can be enabled e.g. application starving for specific resources, when network latency to a location increases etc.

Tighter application security - fledge eBPF offers built-in, inline, high performance packet filtering that is Application Aware. This can enable more fine tuned application security that is dynamic i.e. rules and policies move with the application as it is integral to fledge orchestration.

Learn more: <https://www.fledge.io/2021/02/24/fledge-io-brings-ebpf-to-multi-cloud-and-edge/>