



MIMOS Federated Mobility Cloud and Autonomic Services Management Platform (Mi-Focus)

Public and private services are being transformed into mobile delivery services due to the high penetration of mobile devices today. Mi-Focus offers an application delivery platform that allows services to be deployed at remote satellite resources. It de-emphasises from a centralised approach to a distributed and de-centralised architecture. By hosting applications closer to users, it reduces the number of hops, network delay and data transfer as compared to users accessing services directly from data centres.

Overview

Mi-Focus is an application delivery platform to deploy services to remote resources for Edge Computing. It allows management of resources through a centralised pane to provision applications, monitor the health, performance and trust level of nodes and applications, and control resources through a policy management module.

Features

Mi-Focus comprises the following features:

- **Distributed Application Delivery Platform**
Turn any x86_64 box with Internet connectivity into a Mi-Focus node machine. Provision applications straight from the cloud to the node.
- **Unified Resource Management**
Manage distributed node machine on a single pane. Launch containers, manage application images and users, and monitor and perform automated installation to machines.
- **Security and Trust Management**
Continuously monitor and evaluate security issues for each node machine over time. Monitoring is based on multifaceted approach centred on multichain factors such as the risk and reliability of physical machines, daemons and containers.
- **Centralised Policy Management**
Reduce a system's administrative tasks by enforcing policy on nodes. A central point of control enables the creation and enforcement of authorisation or automation policies.
- **Scalable Image Registry**
A private registry to store application images that can be deployed as a single node or scale to support large deployment.

Technology Benefits

The main impacts of Mi-Focus are:

- **Simplified Application Deployment**
No more installation and configuration required. Application stacks can be pushed to nodes and started remotely.
- **Localised Application and Content**
Deploying applications at a remote site provides low latency access to services for customers, and minimises data exchange to the data centre that indirectly improves user experience.
- **Development of New Service Categories**
With Mi-Focus, developers are able to leverage on resources that are closer to users. New services can be built such as IoT, Smart City, location-based systems and others.
- **Application Virtualisation**
Mi-Focus enables focus on application virtualisation rather than server-based virtualisation. Application virtualisation generates a low footprint in resource utilisation.
- **Open Platform**
Mi-Focus is independent of specific hardware brands and can be deployed using off-the-shelf components adding to the flexibility in deployment and reducing vendor lockdown.

Technology Summary

Mi-Focus

An application delivery platform for remote and distributed resources for Edge Computing.

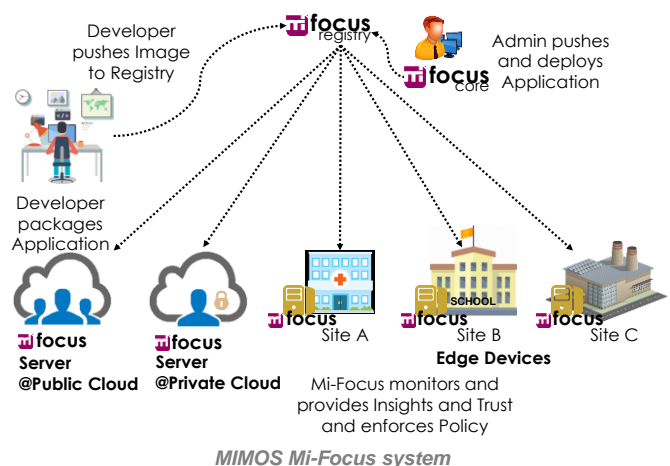
Industries: Enterprise, Government

Features

- Distributed application delivery platform
- Unified resource management
- Security and trust management
- Centralised policy management
- Scalable image registry

Technology Benefits

- Simplified application deployment
- Localised application and content
- Development of new service categories
- Application virtualisation
- Open platform



System Requirements

| Mi-Focus | |
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| Basic Requirements (Small Deployment) | |
| Mi-Focus Core & registry | 2 cores CPU x86_64 ≥ 4GB RAM ≥ 40GB HDD 1 X Ethernet Card |
| Node(s) | 2 cores CPU x86_64 ≥ 2GB RAM ≥ 30GB HDD 1 X Ethernet Card |
| Intermediate to Advanced Requirements (Medium to Large Deployment) | |
| Mi-Focus Core | ≥ 2 cores CPU x86_64 ≥ 4GB RAM ≥ 60GB HDD 2 X Ethernet Card |
| ≥ 2 Mi-Focus Scalable Registry | ≥ 2 cores CPU x86_64 Architecture ≥ 4GB RAM ≥ 40GB HDD ≥ 100GB Network File System (NFS) mounted 2 X Ethernet Card |
| Node(s) | ≥ 2 cores CPU x86_64 ≥ 4GB RAM ≥ 30GB 1 X Ethernet Card |