



Overview of Deployment and Management of Cisco IoT FND on OVA with Postgres and Influx DB

- [Introduction to Cisco IoT FND on OVA with Postgres and Influx DB, on page 1](#)

Introduction to Cisco IoT FND on OVA with Postgres and Influx DB

Cisco IoT FND is a management platform designed to facilitate the deployment, monitoring, and management of Cisco IoT networks. Deploying Cisco IoT FND on OVA with Postgres and Influx DB has the following advantages:

- **Easy deployment:** Using an OVA simplifies the Cisco IoT FND installation process, as it is packaged with pre-configured settings. This reduces the complexity and time required to set up Cisco IoT FND.
- **Scalability:** Using an OVA makes Cisco IoT FND more scalable and can support more Cisco IoT devices.
- **Data handling:** Postgres offers robust handling of structured data, ensuring reliable storage and retrieval of configuration and metadata.
- **Monitoring:** Influx DB is optimized for time-series data, enabling efficient processing and analysis of real-time data streams.

Use virtualization platforms that allow you to create and manage VMs on a physical hardware system. They enable multiple operating systems to run simultaneously on a single physical machine by abstracting the hardware resources. Here are some examples of virtualization platforms: VMware vSphere, VMware Workstation, Oracle VirtualBox, Microsoft Hyper-v and so on.

This document provides the steps required to install the Cisco IoT FND with Integrated Application Management (Fog Director) on an OVA.

A Comparison of Cisco IoT FND on OVA vs Cisco IoT FND on Bare Metal

Aspect	Cisco IoT FND Bare Metal Deployment (Custom Office Building)	Cisco IoT FND OVA Deployment (Serviced Office Space)
Setup	Constructing a custom office building from the ground up.	Moving into a pre-furnished serviced office space.
Customization and Control	Complete control over design, layout, and infrastructure.	Limited customization; pre-configured and ready to use.
Resource Investment	Significant upfront investment in time and resources.	Lower initial costs with minimal setup required.
Performance and Optimization	Can be finely tuned for optimal performance.	Offers decent performance, with flexibility for scaling.
Ease and Speed	Requires extensive planning and time to set up.	Rapid installation and deployment.
Scalability and Flexibility	Adjustments require more effort and time.	Easily scalable and flexible to adjust resources.
Cost Efficiency	Higher costs due to custom setup and maintenance.	Cost-effective with reduced need for hardware investment.