



ZIGRON

Connected
Application
Experts

CASE STUDY

Next Generation Firewall/ Virtual Deep Packet Inspection Solution on OpenStack Cloud

ABOUT

ZIGRON

Zigron is a US based company with offices in Northern VA and Pittsburg PA. It also has facility along with a world class infrastructure in Islamabad Pakistan. Zigron specializes in Cloud and SaaS based solutions, Big Data Analytics, New Platform/Product Development, Rich User Experience, Application Modernization/Unification and AdvancedData Visualization in Telecom/M2M/Networks.

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PROBLEM STATEMENT

To design and implement a complete **NGFW** with **L4-L7 DPI, Bandwidth Control, Security Suite and Analytics Engine**. Deployment of the system to be done on an OpenStack Private Cloud.



OUR SOLUTION

Zigron adopted a **Microservices** based architecture approach to achieve the target goal. In this architecture, we used Procera's NAVL libraries to provide deep packet inspection capabilities to our product to implement features such as parental control and bandwidth control. Third-party applications were also integrated to further enhance the feature set (e.g. **Ad-blocking, SSL-Interception, PNDA**) to build up the complete infrastructure. **PNDA** as an **analytical** tool was deployed on an OpenStack private cloud to provide us with Network analytics and insight. Our team was responsible for design, implementation, and deployment of the complete **(OpenStack)** cloud solution along with post-deployment monitoring as managed services support.