



# ZIGRON

Connected  
Application  
Experts

## CASE STUDY

# Unified EMS-NMS Controller Solution

## 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.

Web: [www.zigron.com](http://www.zigron.com)

Email: [info@zigron.com](mailto:info@zigron.com)



## PROBLEM STATEMENT

Zigron was challenged to build and set up a **custom DNS application platform** which will be offered as a complete solution (SaaS). To be set up on both physical or virtual servers in combination with a **cloud deployment (AWS or OpenStack)** having the feature set Anti-malware, Anti-phishing, Parental control, Application blocking, Traffic routing, and control etc.



## OUR SOLUTION

Zigron adopted a Microservices based architecture approach to offer next-generation **DNS** service. In this architecture, we adopted award-winning third-party applications like CYREN security and integrated them with legacy DNS software to provide the customer advanced services like **Anti-Malware, Ad-blocking, Content blocking**. The complete infrastructure was deployed on a combination of physical servers and cloud infra. Cloud infra could be deployed on both **OpenStack and AWS** with our application seamlessly communicating between the two. The final product was **dockerized** to support cross-platform compatibility. Our team was responsible for design and deployment of the complete cloud solution along with the development of the application. We also provided monitoring and troubleshooting support setting up Sensu monitoring framework to continuously monitor the deployment.