



# Smart City and Street Light IoT Platform

AWS Cloud based advanced data analytics platform that leverages existing infrastructure to make Cities Smarter, Safer and More Connected

# Smart City and Street Light IoT Platform

AWS Cloud based advanced data analytics platform that leverages existing infrastructure to make Cities Smarter, Safer, and More Connected



## About Customer

- One of the global leaders in creating connected networks and IoT devices and platforms for smart cities
- Offers municipalities, utilities, and mobile operators a cost-effective and expandable platform for deploying smart city, small cell, and smart grid services
- The customer has deployed its solutions in more than 150 cities across the USA & Canada.



## Approach / Deliverables

- Multi-tenant portal – which is highly configurable and easy to onboard and manages tenants
- Developed data platform on AWS, supporting thousands of IoT devices for data management & reporting
- Infrastructure consolidation, configuration management and Auto Scaling features on AWS for Improved device management



## Business Challenges / Drivers

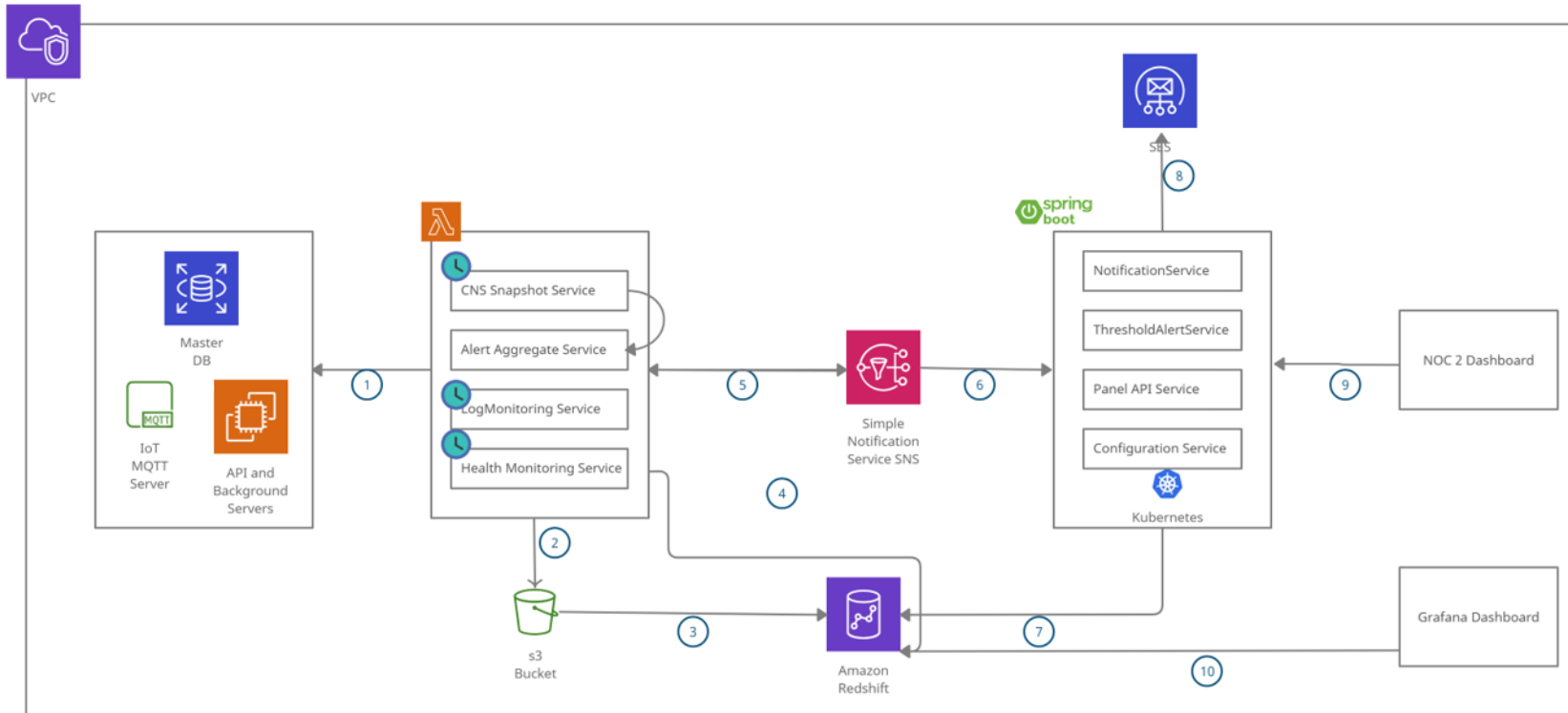
- Lack of multi-tenancy system with 100s of applications and databases, leading to complex deployment and release management
- High infrastructure and maintenance costs
- The system is not scalable to IoT streaming data (for real-time monitoring of IoT devices)



## Outcomes / Benefits

- New customer onboarding time reduced to couple of hours from weeks
- 70% savings of infrastructure and maintenance costs due to multi-tenant panel design on AWS & Anblicks managed services
- Highly scalable and high-performance system leading to more business opportunities

# Real-time IoT device monitoring - NOC (Network Operations Center)



## IoT Device Monitoring

- 400,000 devices, each sending 24 data points/per day
- 15% Alerts, ACK signals
- Process ~12 million transactions per day

## Control Center

- Admin Panel for config
- Grafana-based BI solution

## AWS Cloud Platform

- DWH = RedShift
- Data Lake = S3
- Services = AWS SQS, Lambda, AWS SES