

ECaaS - New Architecture Energy Components-as-a-Service / EC SaaS / ECaaS

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VP Architecture – Energy Components

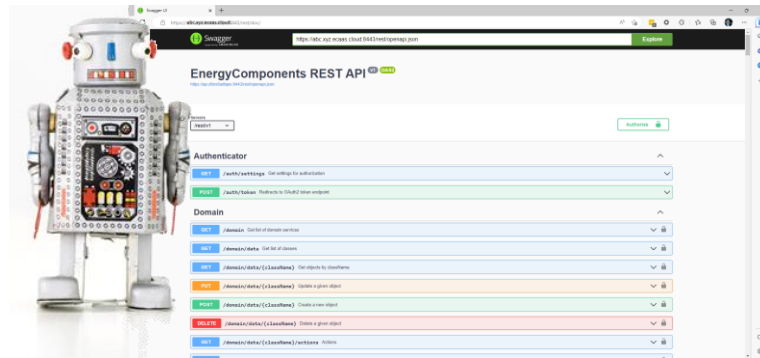


Topics

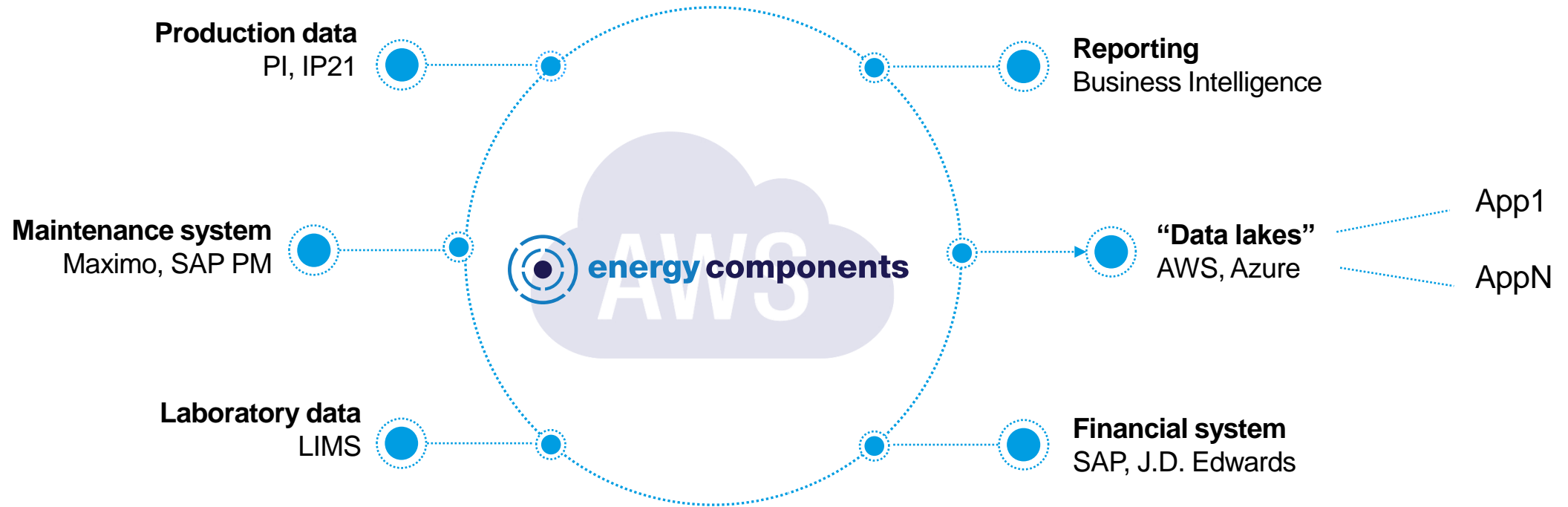
- ECaaS – a software service
- System landscape & integrations
- Resilient & robust architecture
- Vulnerability management & security posture



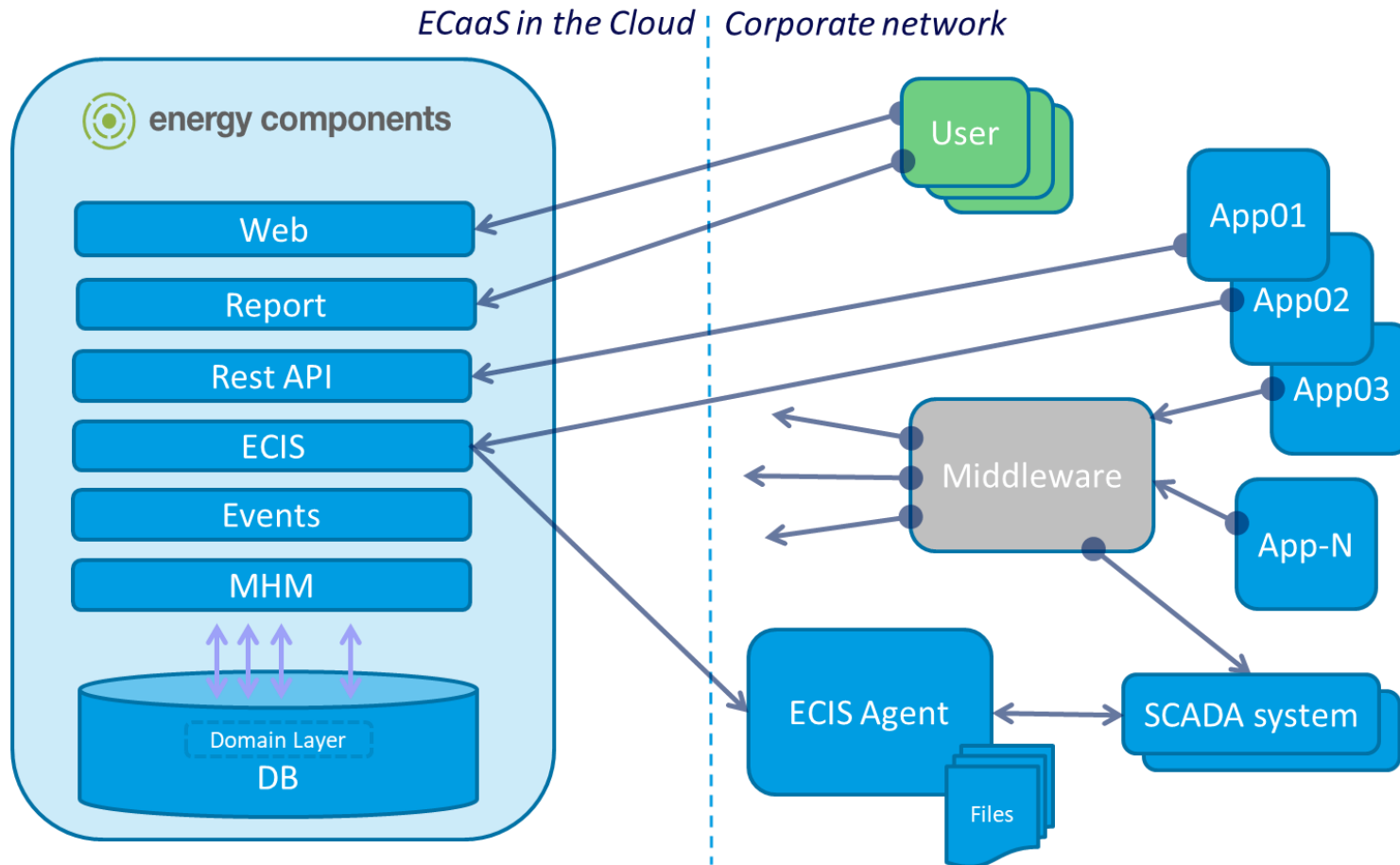
ECaaS – A Software Service



System Landscape and ...



... Integration

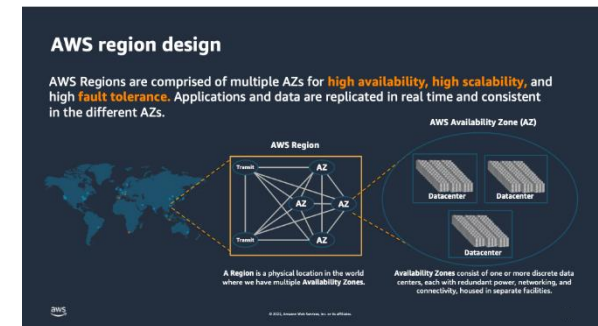
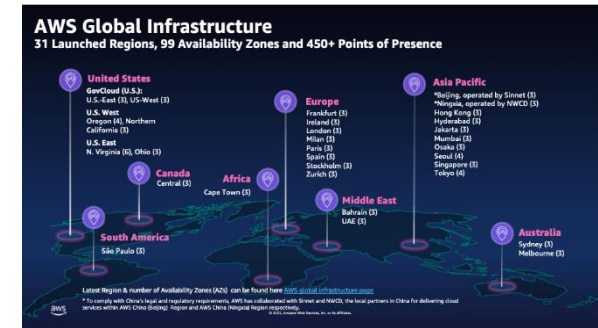
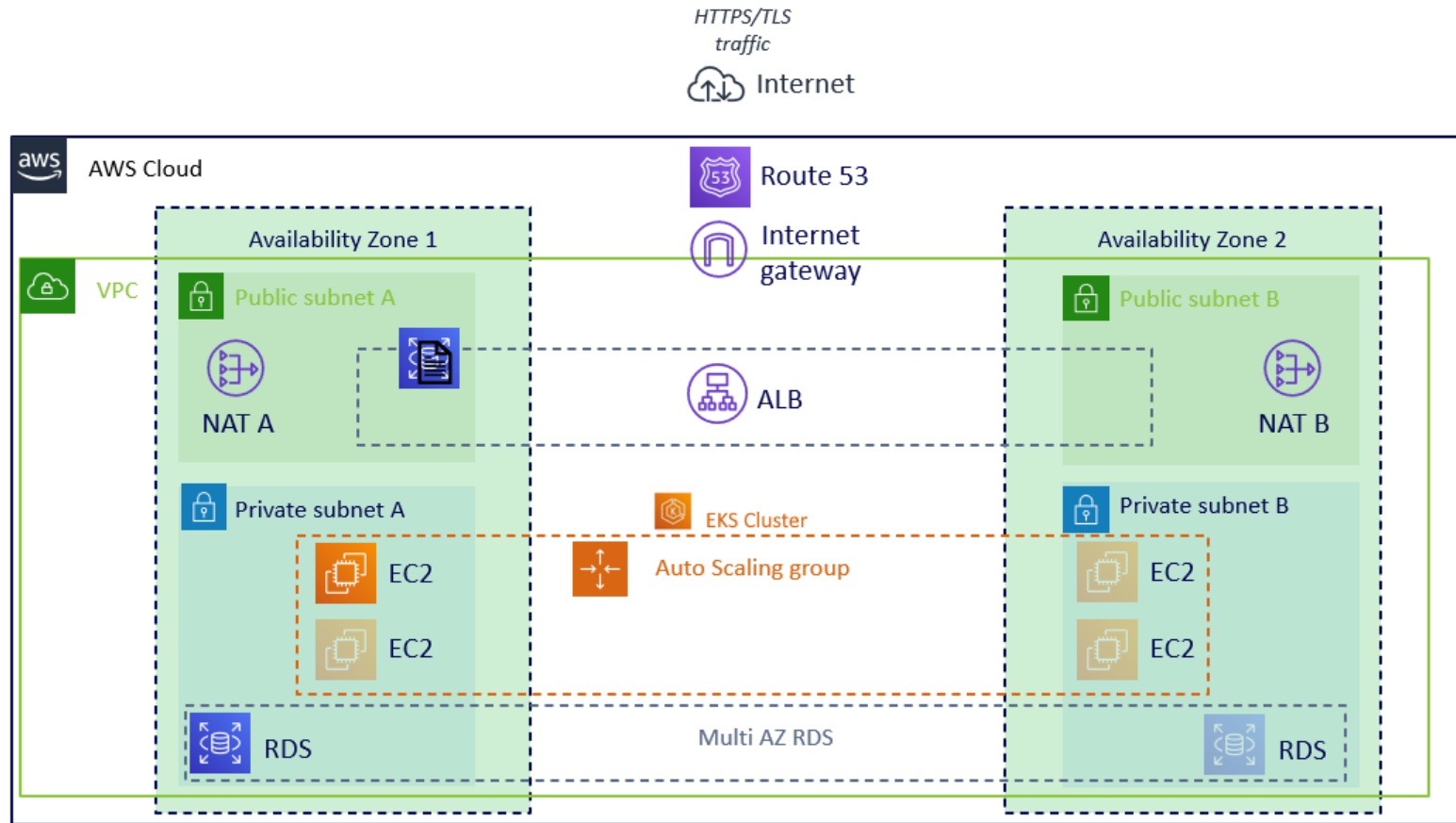


- Examples of Middleware:
 - AWS API Gateway
 - Dell Boomi
 - Google Apigee
 - MuleSoft
 - Azure Logic Apps
 - Node Red
 - ...

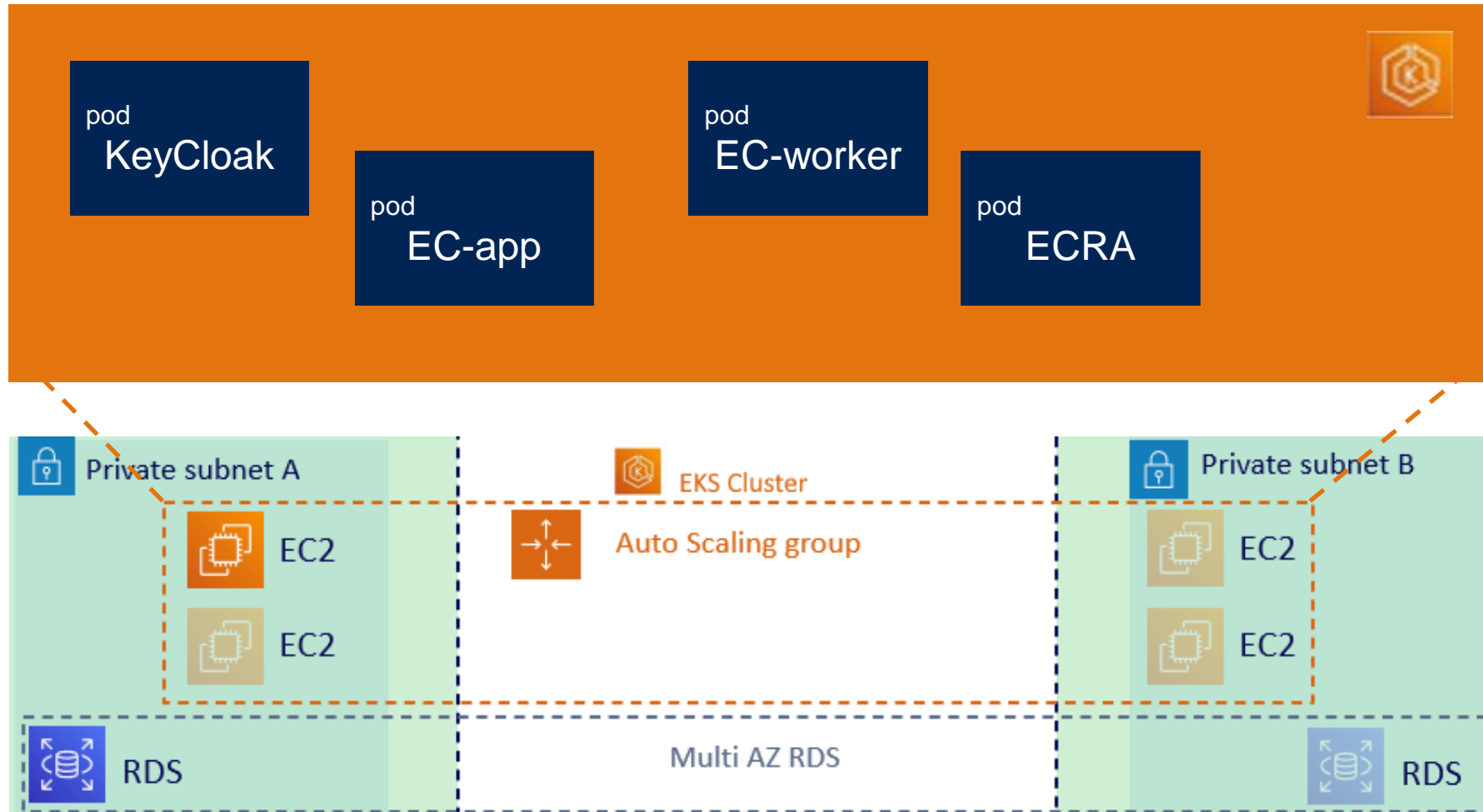
Looking into the “Blackbox”



A Peak into Resilient & Robust Architecture



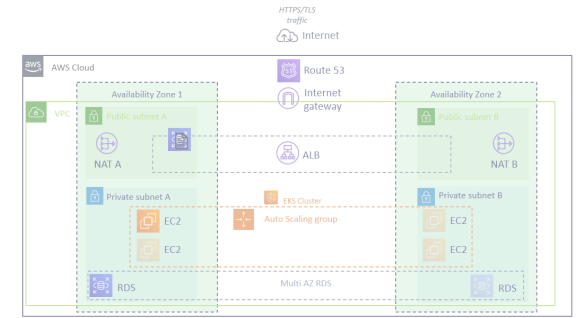
A Peak into Resilient & Robust Architecture



ECaaS Security

Secure Software Development Life Cycle (SDLC)

- SAST / Static Code Scans – OWASP top ten
- SCA / Software Component Analysis – 3rd Party/library vulnerability assessments
- Container Scans – Binaries etc vulnerabilities within the container images
- MPT / Manual Penetration Testing – Annually executed on an ECaaS reference environment
- Customer customizations encapsulated in the EC Extension framework
- Customer's EC Extensions scanned



Infrastructure / AWS Platform

- Generically built platform by scripting (IaC)
- Well Architected Reviews (WAR)
- Drift detection by IaC and well-defined desired state in Version Control System
- Drift detection by monitoring tools
- Secret Management / KMS tools