2 Twelve Solutions

### ORE Task 1 Integration Activities

20 October 2022

Navy

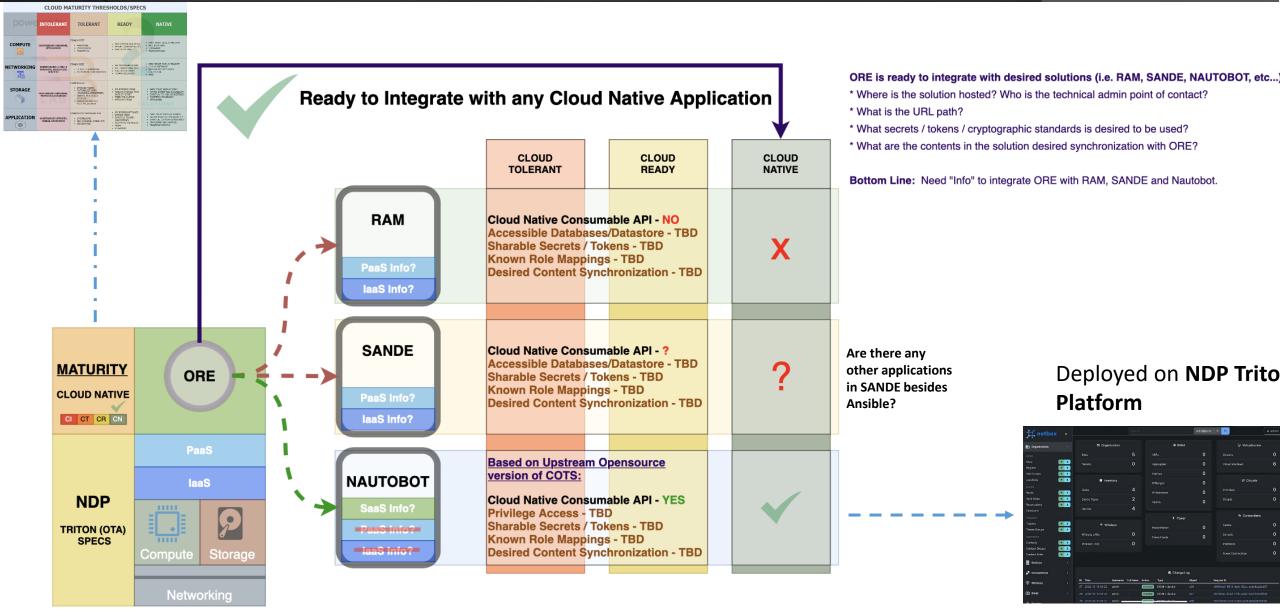






### Information Needed for Integration Efforts

w 2twelvesolutions com



WHAT data elements are desired to integrate into the ORE?





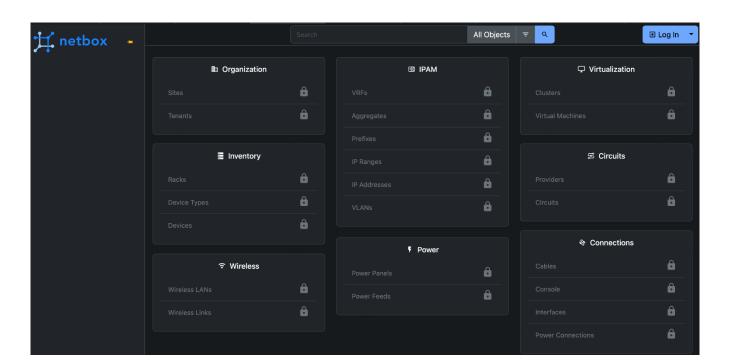
# Cloud Maturity Threshold specifications

CLOUD MATURITY THRESHOLDS/SPECS				
powe	INTOLERANT	TOLERANT	READY	NATIVE
COMPUTE	NONSTANDARD HARDWARE, HYPERVISORS	STANDARDIZE  • HARDWARE  • HYPERVISORS  • MODERN OS	APPLICATION ISOLATION     KERNEL COMPUTE POLICY     SEMI AUTO IAAS	ZERO TRUST DATA IN PROCESS     FULL AUTO IAAS     CONTAINER     MICROSERVICES
NETWORKING	NONSTANDARD L1 AND L2 HARDWARE, SILOED CORE SERVICES	STANDARDIZE  • L1 AND L2 HARDWARE  • ENTERPRISE CORE SERVICES	API DRIVEN NETWORKS     PKI, TRAFFIC ANALYSIS     FLATTEN NETWORK     TENANT ISOLATION	ZERO TRUST DATA IN TRANSIT     L2-7 AS SOFTWARE     SIDECAR SECURITY DATA     COLLECTION     IPV6
STORAGE	NONSTANDARD HARDWARE, PROTOCOLS, DATABASES	STANDARDIZE:  STORAGE FABRIC RATIONALIZE DATA (EPHEMERAL/PERSISTENT) OBJECT, FILE, BLOCK STORAGE PERF RQTS FOR SSD, PLATTER, ARCHIVE	API DRIVEN STRAGE     ROBUST STORAGE PAAS     OVER ETHERNET     FIBER FOR CUSTOM     METADATA TAGS	ZERO TRUST DATA AT REST     NATIVE ENTERPRISE SCALABILITY     EVENTUAL TO HIGH CONSISTENCY     PARTITION TOLERANCE     STREAMING
APPLICATION	NONSTANDARD SERVICES, MANUAL OPERATIONS	STANDARDIZE SOFTWARE FOR  • ENGINEERING, • DEV, STAGING, CYBER, OPS • GOVERNANCE	API DRIVEN SOFTWARE     SERVICE MESH     EVENTUAL TO HIGH     CONSISTENCY     PARTITION TOLERANCE     DR/HA     STREAMING	ZERO TRUST CODE AT SOURCE     NATIVE ELASTICITY/SCALABILITY     EVENTUAL TO HIGH CONSISTENCY     ON DEMAND SELF SERVICE     MEASURED SERVICE



Team implemented the upstream opensource version of Nautobot COTS (Netbox), deployed on Triton Platform (Cloud native infrastructure), leveraging stateless and ephemeral/persistent storage design

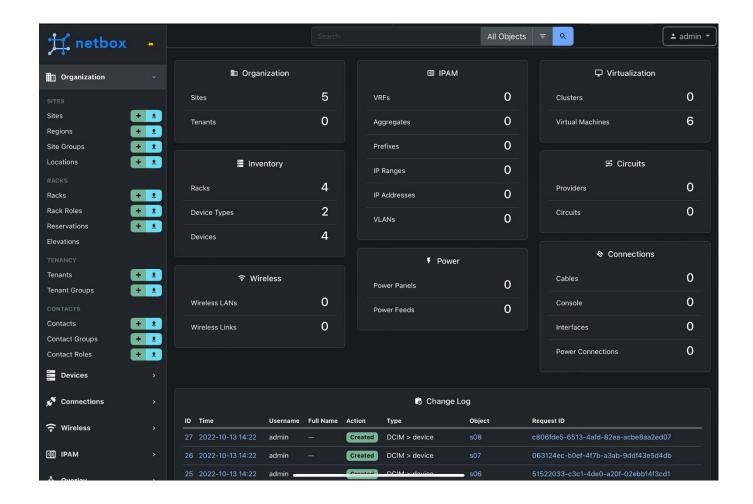
- What data elements from Nautobot are desired for extraction into the ORE?
- When can the Core Node provide the API endpoints and data functions for integration to the ORE?
- What services and elements (data) from SANDE are desired to be put into the ORE?
- When can SANDE team provide API Endpoints and data elements required for integration for SANDE integration?







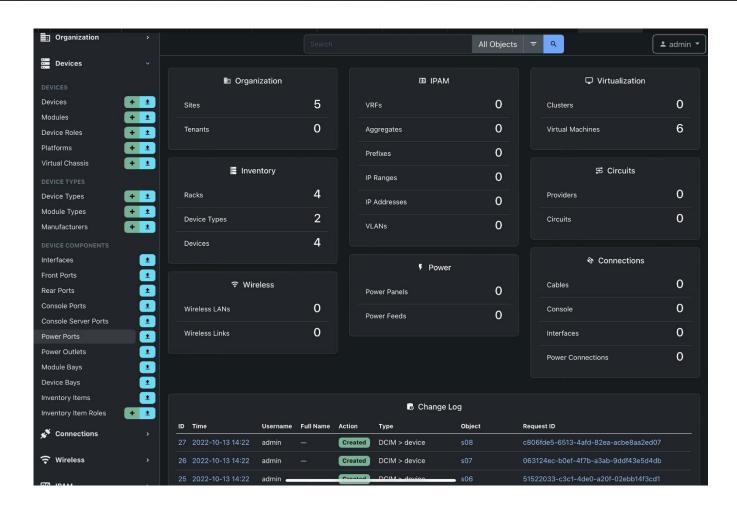
#### Organization







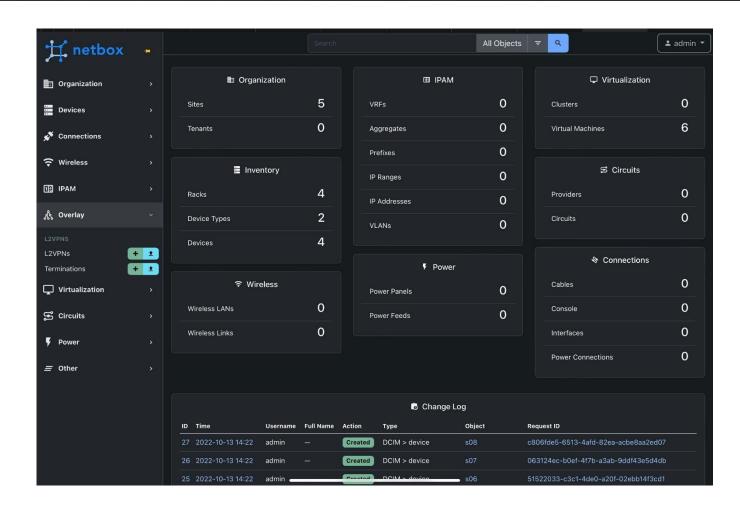
#### **Devices**







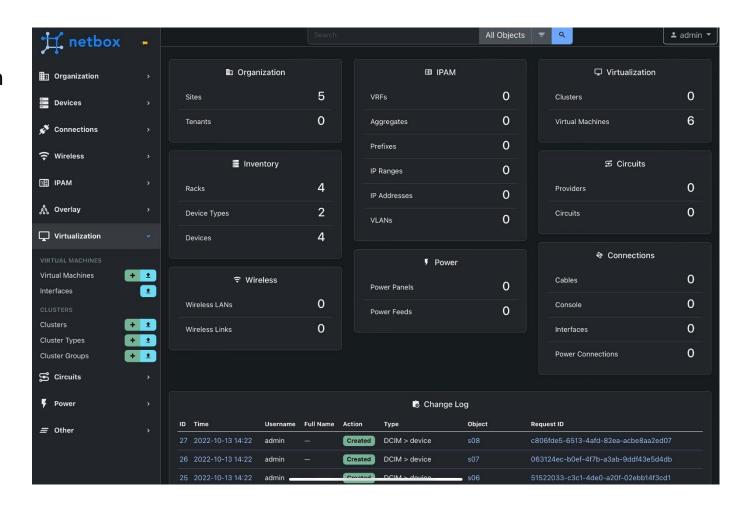
#### Overlay







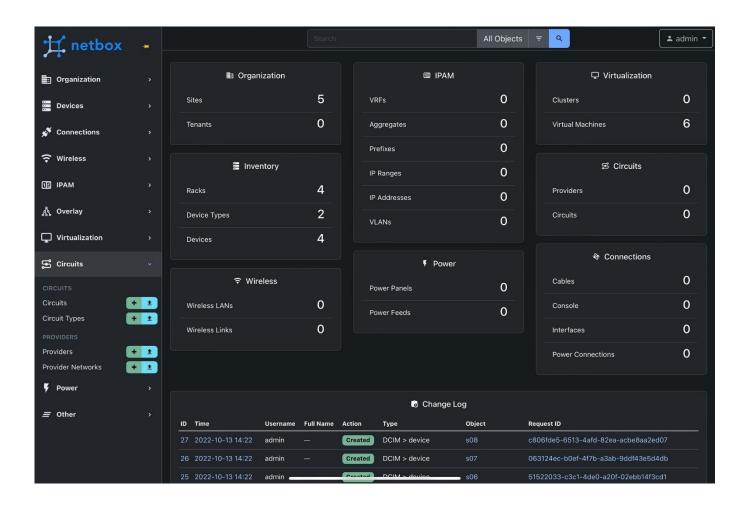
#### Virtualization







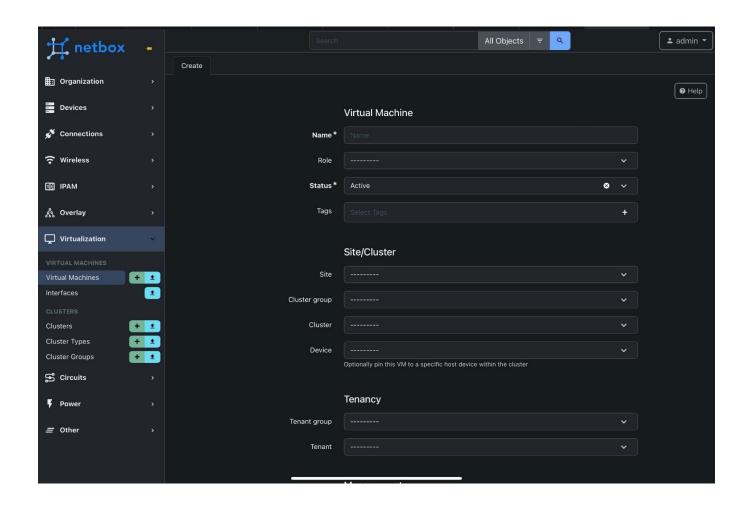
#### Circuits







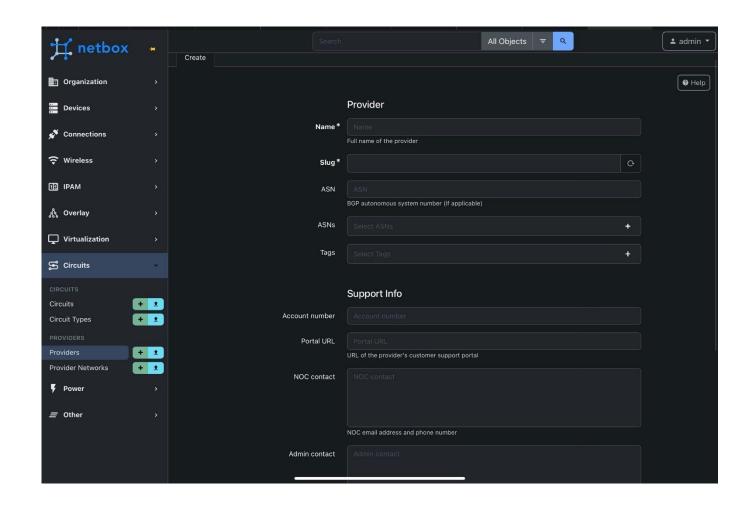
Virtual Machines







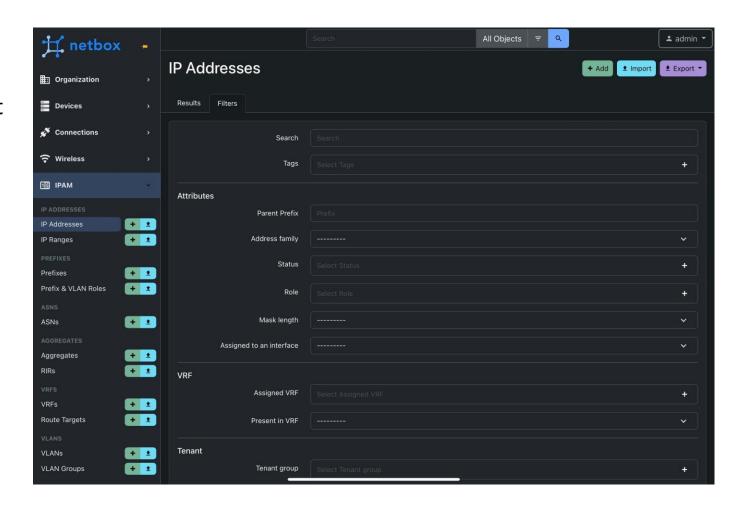
Service Providers







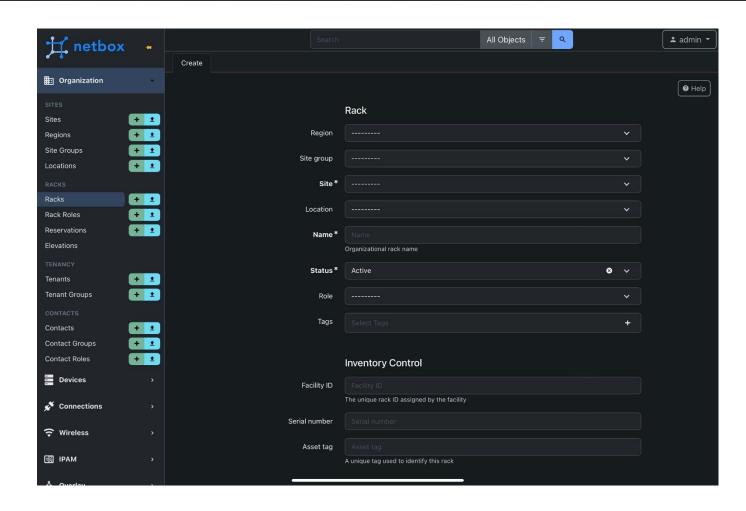
IP Address Management







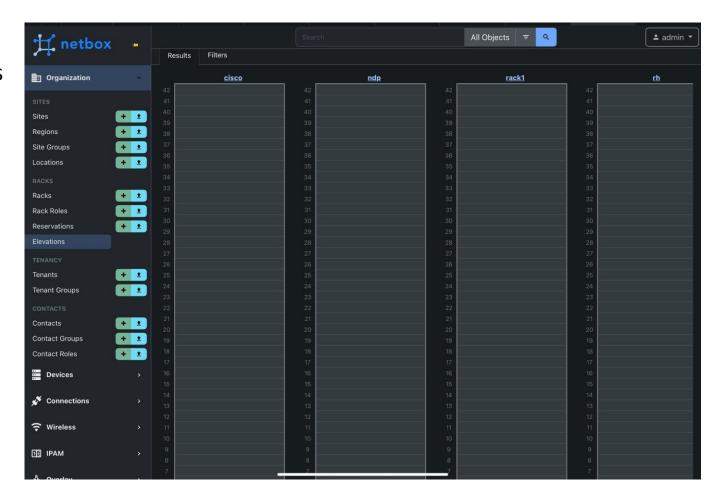
Rack Data







**Rack Diagrams** 







### Circuit Data Import

