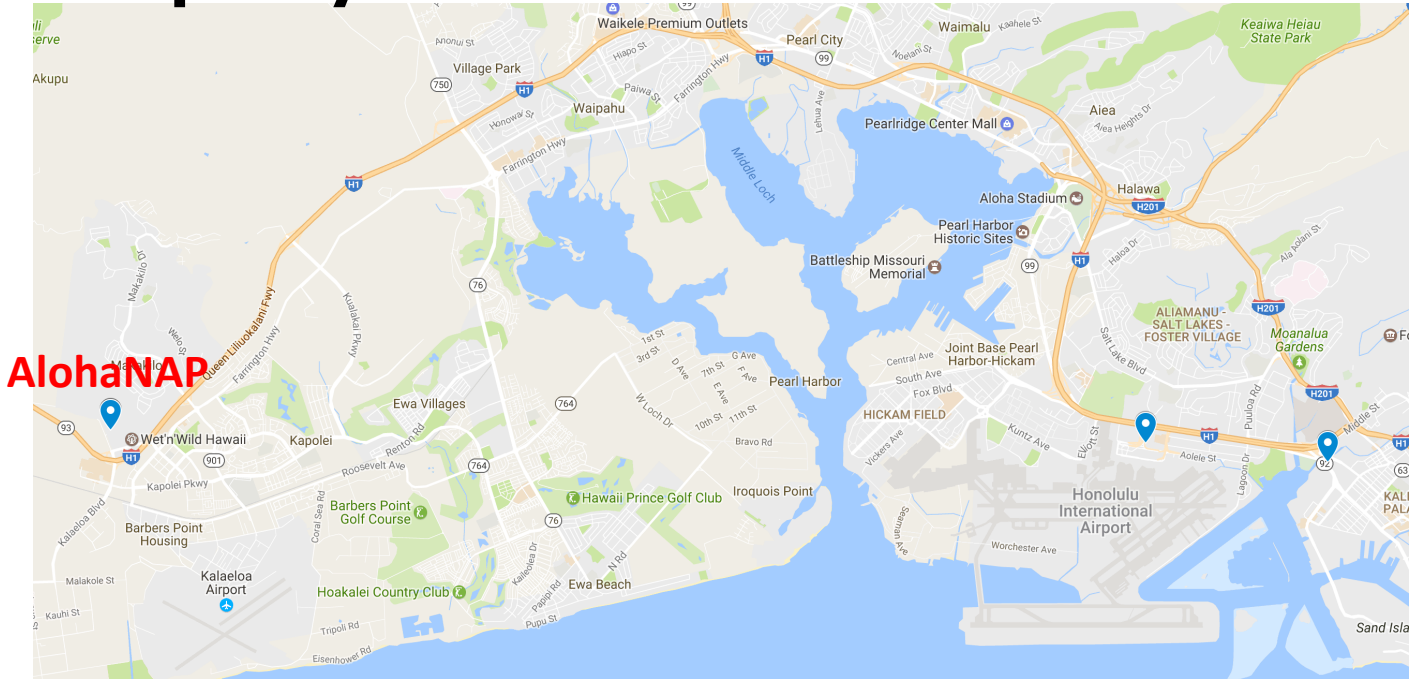# AlohaNAP

- Tier 3 Colocation Facility
- Full Racks, Private Cages, Custom Suites
- Built to suit suites and buildings available
- AC & DC Power Available
- Breakered and Metered Power Options
- Carrier Neutral
- Remote Hands
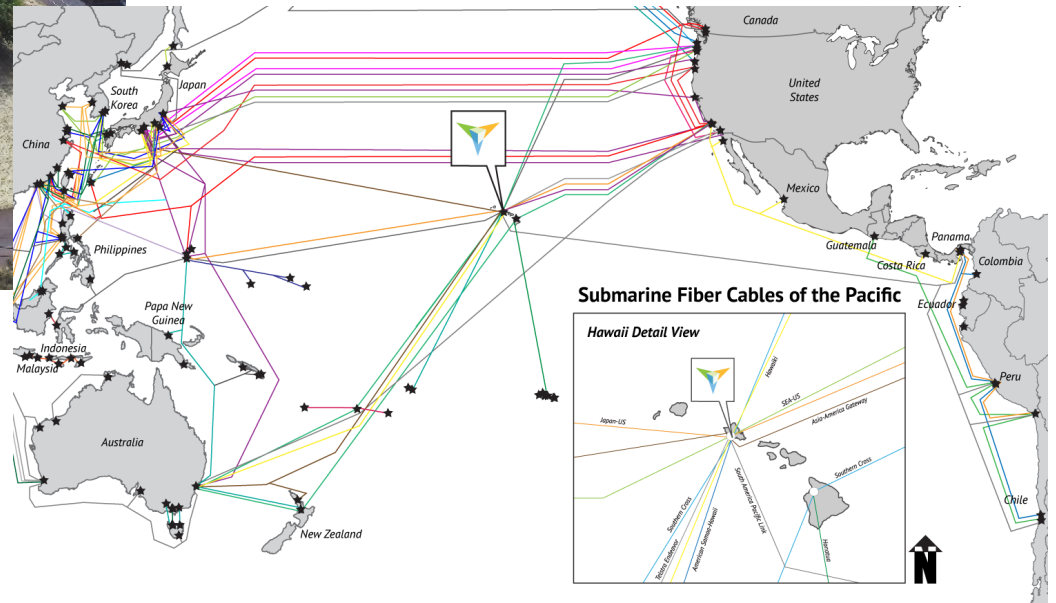- Military grade bunker design

Why deploy Aloha-IX at AlohaNAP

Only Purpose Built Datacenter in Hawaii
Only Single Tenant Datacenter in Hawaii
Highest Elevation of all Datacenters in Hawaii 160ft above sea level
Furthest Datacenter from the coast in Hawaii 2 miles

Location

Submarine Fiber Cables of the Pacific

AlohaNAP Facility

- Reinforced Cinderblock Structure
- Two miles inland
- 160 ft. above sea level
- Outside of flood and tsunami zones
- Fiber Carrier
  - Hawaiian Telecom
  - Level 3
  - TW Cable
  - Systemmetrics
  - State of Hawii Private Network (Q1)
  - Centurylink (Q2)
- Access to over 40 communication satellites

- 1.5MW of power delivered by HECO
- 1 MW Generator with dual 500kw motors
- 6 days on site fuel
- Power densities up to 10kw per cabinet
- N+1 Cooling and Power
- PUE <1.3

Peering at AlohaNAP

- Most secure and resilient peering location in Hawaii
- Home of Aloha-IX
  - Currently Seeding Exchange
  - AlohaNAP has provided free space power and XC's to Aloha-IX
- Hawaii's Largest MSO has choosen AlohaNAP as a Peering Location
- Future Access to Hawaiki subsea cable
- Satellite Access
  - Largest Commercial Teleport location in Hawaii
  - With access to over 40 Satellites
- Open-IX- OIX-2 Certification Planned for Q2 2017
- Working with State of Hawaii to develop Carrier Neutral Cable Landing Stations for future subsea cable growth

Launch of Aloha-IX Local Internet Exchange

Paul Emmons
Executive Director - Ninja-IX

January 15th 2017

My Background

- **Peering since the 90's**
- **Peering Fabric Operator**
- **Founder Ninja-IX (non profit)**
- **IXPs Managed**
  - **Phoenix-IX**
    - **18g burst traffic over 5 sites**
  - **Aloha-IX**
  - **Vegas-IX**
  - **Richmond-IX**

What is Peering?

- **The exchange of traffic**
  - **Between two networks**
    - **of their own "routes"**
    - **and usually their customers**
  - **Typically at no charge between the parties exhanging traffic**
  - **Can be IPv4, IPv6, multicast, storage, voice**

What is Peering?

- **Bilateral - Between 2 Parties**
  - Based upon an agreement between the parties.
- **Multilateral - via Route Servers**
  - Underlying agreement with Exchange Operator

ALOHA IX

Based at AlohaNAP

- **Working to add locations**
- **One time NRC**
- **No monthly cost**
- **Monitored by AlohaNAP and Ninja-IX**
- **User portal**

Aloha IX

– **Supports**

- **Multicast VLANS**
- **Private VLANS**
  - **Between 2 or more participants**
  - **or like 3g GRX or 4g Diameter and Bearer**
- **Jumbo Frames**
  - **typically 9000 MTU**
- **Storage Area Networks**
  - **iSCSI**
- **Network Time Protocol**

Features

- Has a Route Server
  - Multilateral peerings
  - Redundant
- Critical Infrastructure
  - Root Servers
  - AS112
- User Portal / Statistics
- Looking Glass
- RIR address space used

Management

- **Formal**
  - **managed by a Non Profit**
    - **Local**
    - **Regional**
    - **Managed**
  - **Simple participation agreement**

Questions

- **Please ask**

- **paul@ninja-ix.net**

Peering Resources

- **Datacenter Operators**
- **PeeringDB**
- **PCH IX Listing**
- **OPEN-IX**
  - –**Certification for Peering Fabric OIX-1**
  - –**Certification for Data Centers OIX-2**
  - –**Low cost to be a member**
- **NANOG**
- **Peering Forums**