

# *Introducing Nubis* **v1.1.0**

Security, efficiency, and features

# Overview

- First release since PHX1 exit
- Closed [370 issues](#)
- Improved security
  - Closed 6 Medium risks
- Lower costs
  - Reduced costs by approximately \$5,600 per month
- Additional features
  - Platform versioning
  - Reduced deployment times and complexity

# Security enhancements

## Remediated 6 security risks:

- Implemented Consul service ACLs
- Implemented proxy service
- Enforced use of proxy service through firewall rules
- Enabled GitHub user authentication for CI
- Configured network security monitoring on NAT instances
- Automated banning of IP addresses

## Agreed to accept 3 security risks:

- Developed threat model for Nubis/AWS
- Identified indicators for most severe threats
- Collaborating with Infosec to develop monitors

# Cost efficiencies

- Default deployments are now single region
  - Reduces existing costs by about \$1,400 per account\*
- Fewer instances
  - Reduced the number of NAT instances by one third
  - Consolidated NATs and Proxies into a single instance, reducing the number of instances in each region by 9
  - Reduces costs by about \$200 per region in each account\*
- Deprecating the use of the Nubis Sandbox account
  - Estimated savings of \$1,300 per month\*
- Greatly reduced deployment times from 40 minutes per region to 5 minutes per account
  - Allows us to delete resources from Nubis Lab account when not in use, saving about \$1,100 per month\*
  - This will also save engineering time and cost

\*Projections based on data from CloudHealth

# *New features*

- Platform versioning
- Deployed gen 1 NATs with Bro on more modern and reliable instance types
- Enabled Consul service discovery ACLs
- More readable and usable environment descriptions through the use of Terraform
- Automated IP address space allocation within the account
- Upgraded to current system packages
- Aligned with updated tagging standard
- Support for CloudHealth
- All Nubis platform components are now proxy-aware
- One-command platform deployments and upgrades

# *Coming in future releases*

- Additional security fixes
  - Temporary credentials for command line users (including MFA)
  - Automated provisioning of system users IAM users and management of SSH keys (dependent on Infosec's IAM project)
  - Enhanced security for Consul ACLs
  - Monitoring and alerting of GitHub user management policy
  - Improved documentation
- Additional cost efficiencies
  - Containerization of the platform
  - Fewer instances
- Monitoring the things that matter
- Improved release planning
- Automated testing and releasing
- Support for additional proxy protocols
- Standalone deployment of security audit role, CloudTrail, and financial monitoring