Nerd Platoon Cloud Migration - Group 42

Executive Summary

In response to Nerd Platoon's Request for Proposal, Group 42 has prepared this charter to meet their needs for migration to a cloud infrastructure. Due to the nature of the pandemic and civil instability in the region, this transition must occur in a manner that allows flexibility and continuity of business. We plan to enable the transition of their entire infrastructure in a seamless and secure fashion. This means a migration of Active Directory, DNS, database, and webapp services without downtime for company operations and minimal risk of exposure. In addition, ad-block, company laptops, internet, and a VPN will be provided to the employees.

Proposal Author Qualifications, Background, and History

Group 42 is composed of two IT professionals with an expansive history of expertise and unquestionable results:

- **Allen Karel** began his career as an information security contractor for the DoD, becoming the Chief of Counter-Espionage Operations within 10 years. After saving the nation from countless Top-Secret Compartmentalized threats, he later transitioned to working in Cloud Infrastructure for better pay.
- **Dylan Robinson** is a seasoned cybersecurity professional with 5 years of experience working for private intelligence agencies. He is qualified in OSINT, Penetration Testing, Security Architecture, and more. He has multiple up-to-date certifications including OSCP, CASP+, and CISSP.

In 2020, Group 42 was formed in order to address the growing market demand for expertise in security and cloud computing.

Point of Contact

Dylan Robinson	Allen Karel
Chief Security Officer	Chief Operations Officer
Group 42	Group 42
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Proposal Narrative

Group 42 will create the cloud based server infrastructure using Azure and Windows Server, as well as the Active Directory organizational structures needed to effectively manage the 20 Nerd Platoon locations. Group 42 will then migrate the existing employees and resources to the cloud and create tools and templates for easily adding more employees. Group 42 will ensure the network is secure and able to be accessed remotely with RDP.

Microsoft Azure Active Directory
In order to establish a cloud-based environment for the company platform and security protocols, our team will use Azure AD. This will allow for a smooth transition to a cloud-based domain where preexisting company structures, user profiles, and privileges can be retained. Password policies will be enforced, to include a maximum password age of 180 days. For DNS, AWS Route 53 will be used, and file serving will be performed with Amazon S3.

Employee Remote Workstations
Employees will be provided with company laptops, business-class internet, and a VPN service to ensure that company materials remain separated from non-business activities, and to reduce the risk of insider threats due to employee negligence. The company-owned laptops will be distributed with Windows 10 Enterprise preinstalled, and prior to distribution, deployment profiles will be created to mirror Nerd Platoon's in-house directory state. Internet service will be purchased at a competitive market rate, using ethernet only in order to prevent wireless attacks on employee devices. In addition, uBlock Origin will be installed on employee web browsers. Windows Defender antivirus will be enabled on all employee workstations. Finally, the VPN will be established using a cloud virtualized VPN concentrator in order to secure all traffic between servers and employee endpoints.

osTicket Help Desk
To address the need for help desk ticketing services, osTicket will be deployed to a webapp server with a database backend, both of which will exist on a separate subnet from NP's Active Directory domain. osTicket will be configured with a public-facing UP address in a DMZ, with its corresponding MySQL database having no public access.

Stakeholders

Name	Company	Role	Details
Jason Hillman	Nerd Platoon	Project Sponsor	Jason Hillman is the CEO of Nerd Platoon.
Allen Karel	Group 42	Project Manager	Allen Karel is the project manager for Group 42. He will be in charge of all administration and organization of Nerd Platoon's migration to cloud

			infrastructure.
Dylan Robinson	Group 42	Project Lead	Dylan Robinson is the project lead for Group 42, and will be in charge of employee workstations and Active Directory deployment in concert with Allen Karel. ***these are temporary roles**

Simplified Budget

Total expenditures shall not exceed $1 million.

Budget Narrative

Because of the presently opaque nature of Nerd Platoon's company structure and needs, we have presented links to the pricing guidelines provided by the various requisite vendors.

AWS S3 (Storage)
https://aws.amazon.com/athena/pricing/?did=ap_card&trk=ap_card
https://aws.amazon.com/s3/pricing/

AWS Route 53 (DNS)
https://aws.amazon.com/route53/pricing/?did=ap_card&trk=ap_card

Amazon Relational Database Service (MySQL)
https://aws.amazon.com/rds/pricing/?did=ap_card&trk=ap_card

Microsoft Azure Active Directory
https://azure.microsoft.com/en-us/pricing/calculator/

Ongoing Support Plan - Including Training

Introductory Training
Training will be provided by Group 42. Initially, Group 42 will conduct Zoom seminars with NP consultants, clients, staff, and management in order to acclimate them to the new cloud environment.

Ongoing Support

Group 42 will record introductory courses to be hosted on NP servers in order to provide a resource to new hires, and will train NP IT staff to administer and educate employees in the future.

Services

Group 42 will act as level 3 technical support for 12 months after cloud migration has been accomplished. Consultation will also be provided for this timeframe to NP upper-level management.

Timeline of Project

Server Infrastructure	Completed NLT 10/31/2022
Active Directory	Completed NLT 11/24/2022
Migration and User Templates	Completed NLT 12/12/2022