GCP Architecture, Security, and Key Controls

Assisted large healthcare organization in building out their Cloud Security Architecture, Strategy and Key Technical Controls. The organization was embarking on a planned migration to the cloud and wanted to ensure proper protection of sensitive PHI and company confidential data. Edge was engaged to assist from the ground up in the planning and execution of the strategy. This included:

- Providing guidance on key skills needed to build the core team around
- Assisted providing immediate resources with these skills
- Developed initial plans for Cloud Security Architecture related to People, Process and Technology as part of a holistic security ecosystem to ensure sensitive data remained well protected.
    - People:
        - Recommended staffing plan
        - Provided key initial resources
        - Assisted with training, education and knowledge transfer to existing staff members related to GCP and the relevant security solutions and protective controls available.
    - Process:
        - Helped develop an intake and tracking process for managing new organization cloud initiatives.
        - Helped with incident response procedures related to the integration with existing on-site SOC solutions to allow for real time monitoring against threats and related controls.
    - Technology
        - Developed a checklist of key security controls as part of the overall framework to ensure consistency and completeness of security control implementation.
        - Provided GCP technical knowledge on proper use of encryption solutions to ensure a highly secured data environment.
        - Developed network segmentation based on defense in depth methodologies and environmental boundaries segregating production from development and UAT environments. Network security segmentation was deployed using GCP native firewalls and customer preferred Palo Alto firewalls.
- The customer's Cloud Security team was able to successfully ramp up and build out the organization and meet business objectives associated with migration to Google Cloud. Protective controls are equivalent or in some instances even stronger than prior on-prem ecosystem.
- Overall, these efforts were credited with helping the organization lay a solid foundation for their GCP environment that they could build on as they launched a full-scale migration of critical business applications and data.