

BTS 2025-26 Highlights

- ✓ Have reviewed Microsoft Entra Conditional Access deprecation notices related to the retirement of the “require approved client app” control; identified impacted client tenants via Tenant ID review, briefed colleagues internally, and initiated planning for a test environment to validate the transition to “require application protection” for mobile access ahead of the June 2026 deadline.
- ✓ Remediated targeted internal email spoofing attacks against two related client domains by identifying DNS and mail-flow misalignment (SPF/MX and connector configuration) that allowed external messages to bypass Proofpoint and be delivered directly to Exchange; corrected DNS records and implemented transport rules to ensure Proofpoint processed all external mail before Exchange.
- ✓ Developed an internal auditing script to enumerate and report email-related DNS records (SPF, DKIM, DMARC, MX) across all BTS client domains, providing a centralized view to proactively identify misconfigurations and reduce future spoofing risk.
- ✓ Assessed gaps in Wazuh agent coverage across client environments using AI-assisted analysis of CSV inventory exports; developed PowerShell automation to deploy missing agents into correct client groups and update existing agents.
- ✓ Developed PowerShell diagnostics and remediation scripts to augment low-disk-space alerts by quantifying recoverable storage (stale user profiles, Downloads, Recycle Bin) and identifying excessive endpoint security agent data growth as a potential performance issue; enabled targeted cleanup (temp files, update caches, browser caches, crash dumps) without reliance on Disk Cleanup.
- ✓ Designed and implemented an SMTP relay solution for a network-connected scanning device to improve outbound email performance and reliability, using Exchange Online connectors and scoped mail-flow rules to accommodate device authentication limitations while preserving tenant email security.
- ✓ Resolved a reported email journaling issue by validating message delivery and confirming that journaled emails were successfully reaching the intended recipient, leading to client acknowledgement and closure.
- ✓ Collaborated with a client’s ERP/CRM vendor to configure required email-related permissions and mail-flow access to support application functionality.
- ✓ Diagnosed and resolved a client Wi-Fi performance issue using UniFi tools by adjusting SSIDs and channel assignments to isolate a malfunctioning access point, which was subsequently replaced.

ITS Highlights 2025

- ✓ Led network deployment for ITS’s new office, configuring Cisco Meraki switching and wireless with segmented VLANs (internal, guest, PXE), dual-WAN connectivity (AT&T primary, Spectrum secondary), and secure 1:1 NAT access to enable remote management of on-site systems; deployed and tuned office access points.
- ✓ Spec’d and procured a new Dell PowerEdge server to serve as the core host for a SmartDeploy lab in the new ITS office; optimized for high-volume PXE boot imaging using 2.5" SATA SSDs, RAID 10, and a 10GbE NIC for increased VM and deployment throughput.

- ✓ Updated a single-client Kaseya agent deployment in Microsoft Intune by replacing a deprecated cloud-based installation script with an IntuneWin package that ensured proper agent installation and client group assignment for newly deployed devices.
- ✓ Assumed ownership and completed a full cloud migration for a ~25-user client, including email migration from Google Workspace to Microsoft Exchange, retirement of on-prem Active Directory, migration of shared file data to SharePoint, and transition of endpoints to Microsoft Entra ID.
- ✓ Executed high-volume deployment of 54 Dell replacement systems for a St. Louis client using SmartDeploy PXE imaging and targeted post-deployment scripting for device-specific and identity-bound applications, enabling systems to be delivered ready for immediate client login within ~10 hours.
- ✓ Conducted an Intune project discovery session for a client to assess deployment goals and articulate how Microsoft Intune could be leveraged for device provisioning and management within a Microsoft 365 Business Premium environment.
- ✓ Implemented a FortiGate 60F firewall with Ubiquiti switching and wireless for a small law firm, later adding and adopting an additional access point to support expansion into an adjacent office space.
- ✓ Implemented Microsoft Intune for three clients with configurations beyond basic enrollment, including application deployment, LAPS configuration, and automated SharePoint access for end users.
- ✓ Led a mass application deployment project (~65 users) by creating PowerShell automation to install and remediate complex applications (including Metadata Assistant), with logic for dependency checks, Office process handling, architecture detection, configuration deployment, and logging; extended deployment to off-network users using secure SharePoint-based distribution and remote execution via Kaseya.
- ✓ Supported a small municipal client by redeploying and reassigning six PCs, resolving unexpected configuration gaps through rapid problem-solving, including enabling continued access to legacy webcam software via an RDS-based workaround and developing a lightweight script to automate file relocation and renaming for a specific utility data workflow.

Personal, home projects

- ✓ Maintain a fully licensed FortiGate 60F firewall in a home lab environment for hands-on network design and testing, including VPN configuration and secure port forwarding to support self-hosted services.
- ✓ Host and manage multiple containerized web applications (e.g., Heimdall and Mealie) to experiment with deployment, configuration, and application lifecycle management; additionally operate a custom Magic: The Gathering scoring web application built with AI-generated JavaScript and Flask code.
- ✓ Implemented Cloudflare Tunnels to provide secure HTTPS access and external routing for self-hosted applications in lieu of a residential static IP, enabling reliable public access under personal domains including gruenjr.net.

- ✓ Operate a personal Microsoft 365 tenant to support custom domain email hosting, Intune-based device management, SharePoint usage, and ongoing learning and testing of Microsoft cloud services.