

Fredonia Minimum Security Standards: Applications

An application is defined as software running on a server that is remotely accessible, including mobile applications.

Follow the minimum security standards in the table below to safeguard your applications.

STANDARDS	RECURRING TASK	WHAT TO DO	LOW RISK	MODERATE RISK	HIGH RISK
Patching		Based on National Vulnerability Database (NVD) ratings, apply high severity security patches within seven days of publish and all other security patches within 90 days. Use a supported version of the application.			
Vulnerability Management		Perform a monthly Qualys application scan. Remediate severity 4 and 5 vulnerabilities within seven days of discovery and severity 3 vulnerabilities within 90 days.			
Inventory		Maintain a list of applications and the associated risk classifications and data volume estimates. Review and update records quarterly.			
Firewall		Permit the minimum necessary services through the network firewall.			
Credentials and Access Control		Review existing accounts and privileges quarterly. Enforce password complexity. Logins with Fredonia eServices account (Single Sign On) is recommended.			
Two-Step Authentication		Require Duo two-step authentication for all interactive user and administrator logins. (As available)			
Centralized Logging		Forward logs to a remote log server. University IT Splunk service recommended.			
Secure Software Development		Include security as a design requirement. Review all code and correct identified security flaws prior to deployment. Use of static code analysis tools recommended.			
Backups		Back up application data at least weekly. Encrypt backup data in transit and at rest.			
Dedicated Admin Workstation		Access administrative accounts only via a Privileged Access Workstation (PAW).			
Security, Privacy, and Legal Review		Request a Security, Privacy, and Legal review and implement recommendations prior to deployment.			
Regulated Data Security Controls		Implement PCI DSS, HIPAA, FISMA, or export controls as applicable.			

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