Minimum Viable Secure Product

Drexel University Information Security Office has developed a security checklist for third-party software and vendors. All third-party service providers and cloud-based vendors handling (store, process, or transmit) sensitive or confidential institutional data must have the following security controls to meet Drexel requirements for a minimum viable secure product (MVSP).

1. Business Controls				
Control	Description			
Security Office and	A dedicated information security office and program for managing information			
Program	security risk and ensuring compliance with industry standard security			
	frameworks, and applicable regulations and standards.			
Risk Management	A risk assessment process to identify and manage risks that could affect			
	company's security posture and ability to provide reliable services to its			
	customers.			
Privacy Policy	A publicly posted Privacy Policy or notice to the public, users, or customers,			
	describing how you protect the security and privacy of data.			
Compliance	Comply with all industry standards, local laws, and regulations in jurisdictions,			
	where applicable.			
2. Authentication Controls				
Control	Description			
Single Sign On	Support for single-sign-on (SSO) standards for user and administrator			
	authentication using modern standards. Example: SAML2 and Shibboleth.			
Password Policy	Maintain strong password policy including minimum length, complexity,			
	lockout, expiration, and history. Meet university password requirements as			
	listed below https://drexel.edu/it/help/a-z/password-self-service/ .			
Multifactor	If SSO is not supported, application and/or user frontend portal must support			
Authentication	multifactor authentication (MFA)			
Password Storage	User passwords must not be stored in plaintext and no passwords should be			
	hard coded into the system or application.			
Logging	All user actions including login, logout, actions performed, and source IP			
	address must be logged and available to the institution.			
3. Application Controls				
Control	Description			
Firewall and	The application and the institutional data should be protected by stateful			
Monitoring	packet inspection (SPI) firewall. There should be documented procedures for			
	traffic and intrusion monitoring internally or by a third-party service.			
Access Control	Support for role-based access control (RBAC), attribution-based access control			
	(ABAC) or policy-based access control (PBAC) for users and administrators.			
Web Application	The application and the institutional data should be protected by web			
Firewall (WAF)	application firewall (WAF) to protect against common web vulnerabilities.			
	4. Data Controls			
Control	Description			
Encryption	All institutional data must be encrypted in transit and at rest using strong			
	encryption standards approved by The National Institute of Standards and			
	Technology (NIST).			

Infrastructure	All institutional data must be logically and/or physically separated from other			
Daakun	Institutions.			
Баскир	for the university department.			
Datacenter	All institutional data should reside in datacenters located in the Institution's			
	Data Zone, that is, United States, No data should be physically or electronically			
	transported into a data zone that is not authorized by the institution.			
5. Operational Controls				
Control	Description			
Security Control	Security control systems may include firewalls, IDS/IPS, next gen persistent			
Systems	threat (NGPT) monitoring, file integrity monitoring (FIM), antimalware, physical			
	access controls, logical access controls, audit logging mechanisms, and network			
	segmentation controls.			
Secure	Developers must abide by security by design, privacy by design and follow FTC			
Development	guidelines listed - https://www.ftc.gov/business-guidance/resources/app-			
	developers-start-security.			
Incident Handling	Incident handling protocols for the team and employees to follow to fix the			
	security breach as soon as possible. Notify institution about the security			
	incident/breach within a reasonable timeframe.			
Vulnerability	Application and underlying systems must be scanned externally for			
Scanning	vulnerabilities. Penetration test of the infrastructure must be performed at			
	least annually.			
Patching	All critical and high severity vulnerabilities must be patched based on NIST's			
	National Vulnerability Database severity ratings.			
6. Administrative Controls				
Control	Description			
Business Continuity	A formal Business Continuity Plan which includes processes to address all			
Plan (BCP)	mission-critical business processes.			
Change	A formal change management process to ensure that all changes to systems,			
Management	networks, and processes are appropriately reviewed and approved.			
Disaster Recovery	A formal Disaster Recovery Plan which includes processes to ensure that the			
Plan (DRP)	critical business processes will continue to operate if there is a failure of one or			
	more information processing or telecommunication resources.			
Security Policies	Documented and written policies, guidelines, and procedures for safe handling			
	and protection of data.			
Security Training	urity Training An information security awareness program and security awareness training			
	mandatory for all employees. Role-specific security training for personnel that is			
	relevant to their business function.			
Background Checks	Documented process for background screenings or background checks for all			
	employees with access to institutional data.			

Version	Date	Comments
1.0	5/6/2022	Initial Release (Approved by Information Security Office)