Securing Data in ServiceNow
1. Introduction
ServiceNow is a cloud-based platform used by organizations to streamline IT service management and other business workflows. Given the sensitive nature of the data handled within the platform, securing this data is paramount.
2. Key Areas of Data Security
- Authentication & Authorization - Data Encryption - Access Controls (ACLs) - Data Privacy & Compliance - Auditing and Monitoring
3. Authentication & Authorization
ServiceNow supports multiple authentication methods including SSO using SAML 2.0, OAuth, and LDAP. Multi-Factor Authentication (MFA) is also recommended for added security. Role-Based Access Control (RBAC) and Scoped Applications are used to enforce authorization rules and data isolation.
4. Data Encryption

Data encryption is critical to protecting data integrity and confidentiality:
- At Rest: AES-256 encryption is used for data stored in ServiceNow.
- In Transit: TLS/SSL is used to secure data transmission.
- Field-Level Encryption: Specific sensitive fields can be encrypted.
5. Access Controls (ACLs)
Access Control Lists (ACLs) determine who can access what data. These include:
- Record ACLs: Control access to entire records.
- Field ACLs: Control access to individual fields.
Best practices include using conditional checks and minimizing script usage to prevent
overexposure.
6. Data Privacy & Compliance
ServiceNow complies with various regulations including GDPR, HIPAA, and FedRAMP. Key
practices include:
- Implementing data retention policies
- Providing user consent mechanisms
- Anonymizing and masking sensitive data
7. Auditing and Monitoring

Audit logs help track user activity and data changes. Real-time dashboards support monitoring. The

Security Operations (SecOps) module helps with incident response and vulnerability management.

8. Best Practices

ServiceNow provides a secure platform, but effective data security requires proactive configuration and continuous monitoring. Follow best practices and leverage built-in tools to enhance security posture.