

# Data leak worksheet

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**Incident summary:** A sales manager shared access to a folder of internal-only documents with their team during a meeting. The folder contained files associated with a new product that has not been publicly announced. It also included customer analytics and promotional materials. After the meeting, the manager did not revoke access to the internal folder, but warned the team to wait for approval before sharing the promotional materials with others.

During a video call with a business partner, a member of the sales team forgot the warning from their manager. The sales representative intended to share a link to the promotional materials so that the business partner could circulate the materials to their customers. However, the sales representative accidentally shared a link to the internal folder instead. Later, the business partner posted the link on their company's social media page assuming that it was the promotional materials.

Control	Least privilege
<b>Issue(s)</b>	Access to the internal folder was open to more than just the sales team and manager. The business partner should have had permission to refrain from sharing promotional information on social media.
<b>Review</b>	NIST SP 800-53: AC-6 addresses how an organization can protect its data privacy by implementing least privilege. It also suggests control enhancements to improve the effectiveness of least privilege.
<b>Recommendation(s)</b>	Restrict access to sensitive resources based on user role. Regularly audit user privileges.
<b>Justification</b>	To prevent data leaks, restrict shared links to internal files to employees only. Additionally, regular audits by managers and security teams of access to team files would help limit exposure of sensitive information.

## Security plan snapshot

The NIST Cybersecurity Framework (CSF) uses a hierarchical, tree-like structure to organize information. From left to right, it describes a broad security function, then becomes more specific as it branches out to a category, subcategory, and individual security controls.

Function	Category	Subcategory	Reference(s)
Protect	PR.DS: Data security	PR.DS-5: Protections against data leaks.	NIST SP 800-53: AC-6

The implemented controls that are used by the manufacturer to protect against data leaks are defined in NIST SP 800-53—a set of guidelines for securing the privacy of information systems.

# NIST SP 800-53: AC-6

NIST developed SP 800-53 to provide businesses with a customizable information privacy plan. It's a comprehensive resource that describes a wide range of control categories. Each control provides a few key pieces of information:

- **Control:** A definition of the security control.
- **Discussion:** A description of how the control should be implemented.
- **Control enhancements:** A list of suggestions to improve the effectiveness of the control.

AC-6	Least Privilege
	Control: Only the minimal access and authorization required to complete a task or function should be provided to users.
	Discussion: Processes, user accounts, and roles should be enforced as necessary to achieve least privilege. The intention is to prevent a user from operating at privilege levels higher than what is necessary to accomplish business objectives.
	Control enhancements: <ul style="list-style-type: none"><li>● Restrict access to sensitive resources based on user role.</li><li>● Automatically revoke access to information after a period of time.</li><li>● Keep activity logs of provisioned user accounts.</li><li>● Regularly audit user privileges.</li></ul>

**Note:** In the category of access controls, SP 800-53 lists least privilege sixth, i.e. AC-6.