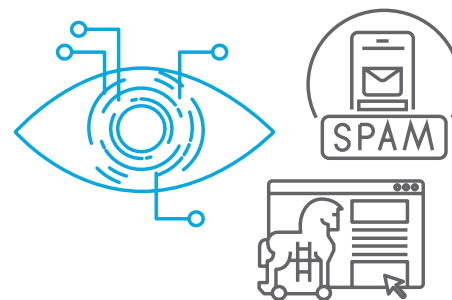


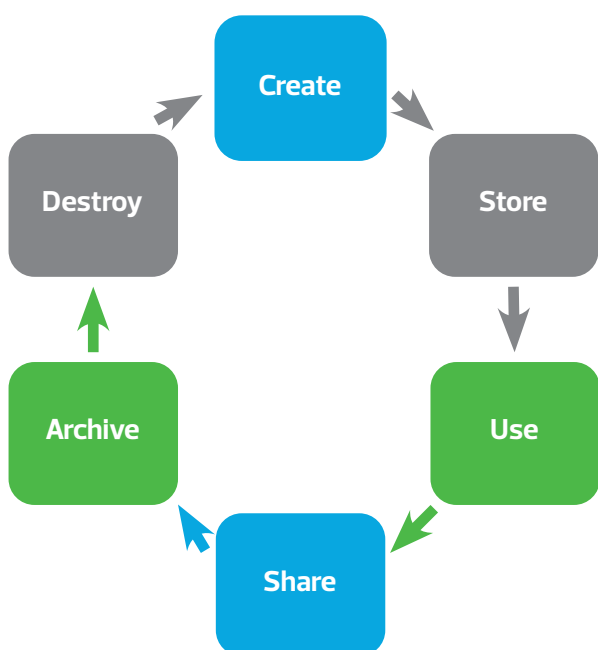
RISK ADVISORY SERVICES

– Linking Data Lifecycle Management to Data Security



Aligning a practical and simple data security framework with the data management lifecycle offers numerous benefits. It helps ensure comprehensive protection, consistency, efficiency, compliance, and proactive management of data security risks. To better understand these benefits, let's examine what a data lifecycle looks like.

See below for a visual depiction:



The different stages of the lifecycle are described next

- **Create** – where data is created or captured
- **Store** – data storage for later retrieval and use
- **Use** – where data is used for the purpose it was captured and stored
- **Share** – data being shared internally and with other third parties
- **Archive** – data being stored offline when it is not used regularly
- **Destroy** – data being permanently erased that is no longer required.
- Now let's explore data security controls by the various stages of the data lifecycle.

Create:

- Ensure all data that is captured or created is in line with local privacy laws
- Data capture should be authorised with consent received from the data subject
- All data subjects must be aware of the data being captured and its use
- Data capture devices must be secure from unauthorised access and tampering
- Any locally stored data on the device should be encrypted
- Any data being transferred off the device must be done so securely and any data in transit should be encrypted
- Classify all data when created and apply appropriate data security control sets based on data classification
- Use of data leakage prevention (DLP) technology is recommended to classify and automatically control access to, and transfer of data.

Store

- Do not store data that is not needed
- Any data stored should be encrypted
- Access to all data should be strictly controlled with appropriate authentication and authorisation controls in place
- Access to all data should be logged and reviewed for anomalies
- Large or unexpected transfer of data should be investigated immediately and ideally blocked automatically
- Any unexpected encryption of data should be prevented using automated controls such as endpoint security mechanisms
- DLP technology should be in place to prevent unauthorised access and transfer of data.

