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PROGRAM: DATA PROTECTION SPECIALIST

CLOUD SLICE TOPIC: MANAGE COMPLIANCE ROLES & MANAGE SENSITIVE INFORMATION

TYPES COMPLETION REQUIREMENTS

EXECUTIVE SUMMARY

The management of Microsoft Purview Message Encryption and Sensitivity Labels plays a pivotal role in securing organisational data. Encryption ensures that sensitive information is transformed into unreadable ciphertext using cryptographic keys, safeguarding data at rest and in transit.

Microsoft Purview utilises either Microsoft-managed or customer-managed keys via Azure Key Vault, offering encrypted email communication, especially to external recipients, through sign-in or OTP verification. Custom encryption templates can be configured via PowerShell to reflect organisational branding.

Meanwhile, **sensitivity labels** allow organisations to classify and protect data based on sensitivity. These labels can be applied manually or automatically using trainable classifiers and predefined rules. The lab demonstrates the enabling of sensitivity labels via PowerShell, the creation of labels and sublabels, and the configuration of auto-labelling policies, ensuring robust data governance and compliance.

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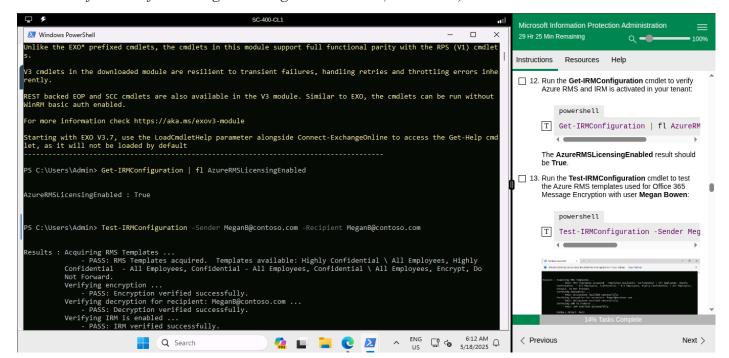
1. MANAGE MICROSOFT PURVIEW MESSAGE ENCRYPTION

Encryption is a critical process in data security that involves transforming clear-text data or files into an unreadable format known as ciphertext. This transformation is achieved through the use of cryptographic keys—unique strings of characters that serve as the basis for the encryption and decryption processes. Without the correct key, retrieving the original clear-text is virtually impossible, ensuring the confidentiality and integrity of sensitive information against unauthorised access or breaches. This process is widely used in various applications, from securing online communications to protecting stored data.

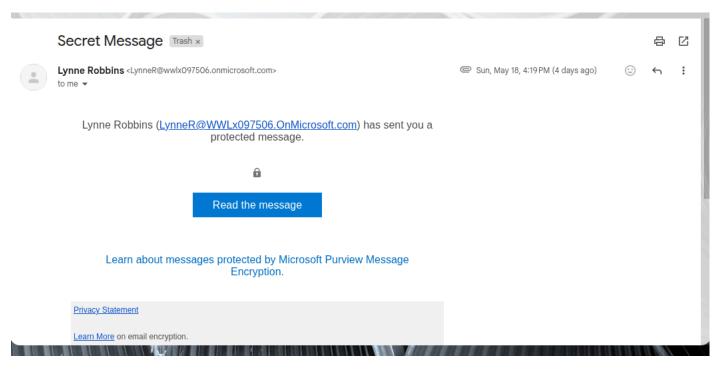
Microsoft offers this feature through the Microsoft Purview Information Protection portal. It uses multiple layers of encryption to secure data at rest and data in transit. Data at rest includes files stored in SharePoint, OneDrive, email messages and Teams Chat messages. Data in transit includes email messages being delivered or any communication between a client and a Microsoft server.

Purview uses Microsoft Managed keys (provided by Microsoft through the Azure Key Vault) or Customer Managed keys (generated by Tenants and stored in the Azure Key Vault) to encrypt data.

Below is a demonstration of how email messages sent to external users are encrypted by requiring the external users to sign in with their accounts to read the encrypted email or enter an OTP.



Verification of Azure Rights Management Service (Azure RMS)



This is how an encrypted email will appear to an external user. This is a default template, how the encrypted message will appear to the external user requiring them to sign in, provided by Azure RMS

LynneR@WWLx097506.OnMicrosoft.com has sent you a protected message

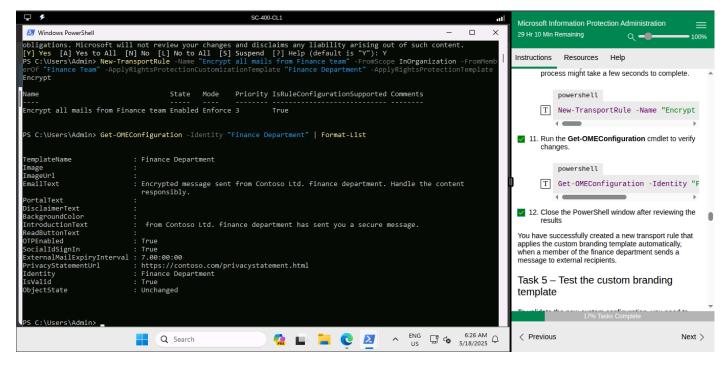
Sign in to view the message

Sign in with a One-time passcode

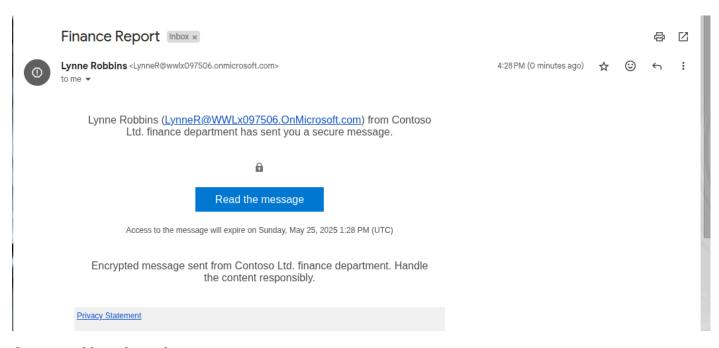
Need Help?

Privacy Statement

For the user to view the message, they need to sign in with an OTP



Customising the template in PowerShell.

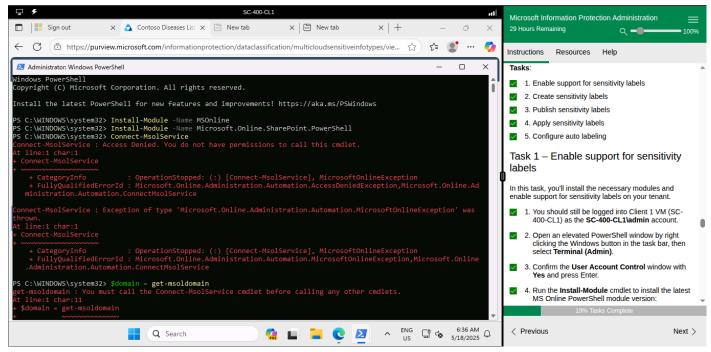


Customised brand template.

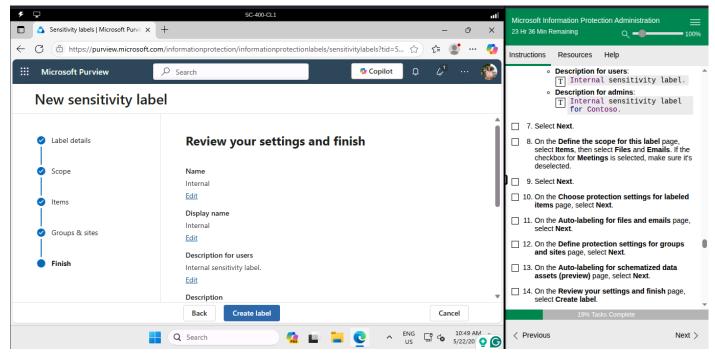
2. MANAGE SENSITIVITY LABELS

Sensitivity labels are crucial tags that organisations utilise to classify, protect, and facilitate secure sharing of data across various platforms and devices. These labels help in enforcing data governance policies, ensuring compliance with regulations, and reducing the risk of data breaches. Sensitivity labels can be applied manually by users based on their discretion or automatically implemented through predefined rules leveraging Trainable classifiers, which utilise machine learning models to identify and categorise sensitive information effectively.

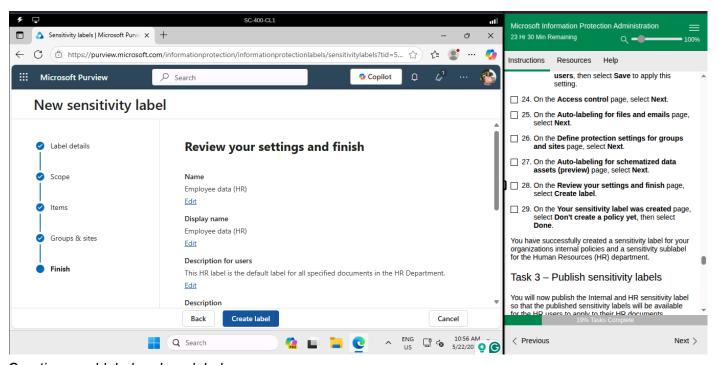
The accompanying demo images illustrate how sensitivity labels are enabled for Azure Tenants through PowerShell commands, providing step-by-step guidance on the process. Additionally, we detail the creation of sensitivity labels and their associated sublabels, enabling finer control over data classification. Furthermore, we explore the setup of autolabelling policies in Microsoft Purview, showcasing how organisations can streamline the process of protecting their data by automatically applying the appropriate sensitivity labels based on specified criteria, thereby enhancing data security and compliance efforts.



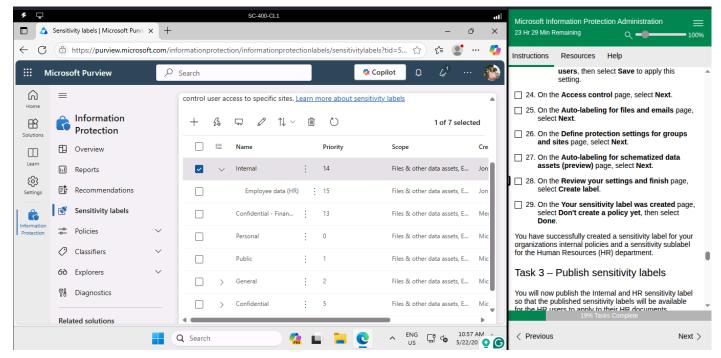
Enabling support for sensitivity labels.



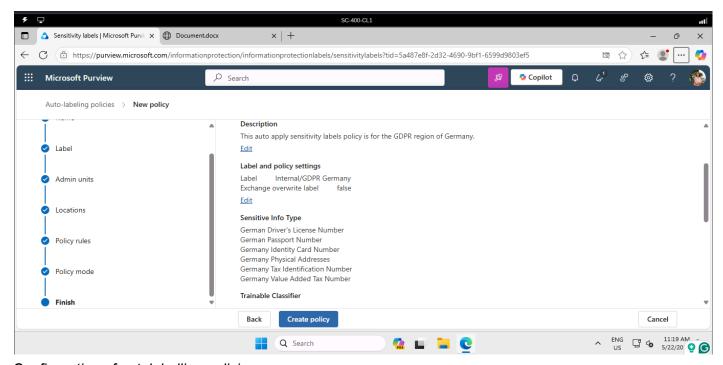
Creation of labels in Purview



Creating a sublabel under a label



Sensitivity labels created and their sublabels.



Configuration of autolabelling policies.