Protecting sensitive data (credit card numbers) in email messages

iQ.Suite Tips & Tricks for IBM Domino

Version 14 of iQ.Suite (Wall module) for Domino checks whether an email contains credit card numbers.

Because emails transmitted over the Internet in SMTP format are usually unencrypted, this involves a certain level of risk.

This calls for a “Wall advanced” job.

You can simply copy the job provided here as an example and adapt it to your requirements.
To perform the analysis you must select the appropriate mode, utilities (blue), and the Credit Card Number Analyser tool (red).

Then select the elements of the email you want to analyze (green).

For the threshold values we have selected two options:

1.) ONE credit card number was recognized with certainty

2.) THREE numbers were detected that are probably credit card numbers

If one of these two options is true, then this email is processed in accordance with your chosen actions (e.g. do not deliver email but send to quarantine, where it is checked and may then be delivered).

Example:

Sent email:
Bank card number

From Wikipedia, the free encyclopedia

(Redirected from Credit card number)

A bank card number is the primary account number found on credit cards and bank cards. It has a certain amount of internal structure and shares a common numbering scheme. Credit card numbers are a special case of ISO/IEC 7812 bank card numbers.

An ISO/IEC 7812 number is typically 16 digits in length.[1] It consists of:

- a six-digit Issuer Identification Number (BIN), the first digit of which is the Major Industry Identifier (MII).
- a variable length (up to 12 digits) individual account identifier,
- a single check digit calculated using the Luhn algorithm.[2]

E.g.

Visa: 4111-1111-1111
MasterCard: 5431-1111-1111

The term "Issuer Identification Number" (BIN) replaces the previously used "Bank Identification Number" (BIN). See ISO/IEC 7812 for more information.

Message to sender:

[Wall: Credit Card informations detected]

*iqsuite* - to: Domino Admin

Please respond to iQSuite-Admin

GROUP Wall
Server: iqsuite

with Job "SAMPLE: Deny and Report Outgoing Credit Card Numbers"
has blocked following e-mail with Credit Card Informations sent by you:

Subject: information about credit cards
To: CN=Domino Admin/O=training@training
Date: 28.09.2011 15:39:04

Extract from quarantine report:
The analyzer recognizes which credit card company issued the number from a particular combination of digits in the number.

In the interests of data protection, only the last digits of the credit card number are shown in the report.