

Documentation (EN)

Create Test-User Accounts and do Email flooding

Maßweiler, 13.03.2016
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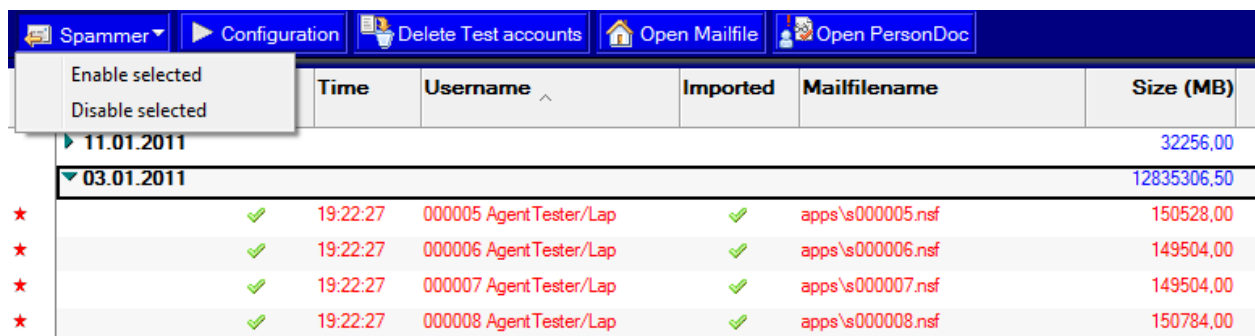
Create-Testaccount-Description.docx

1 Description

This database was created to do provide 2 main processes in the area of Test environments. Creating Test-Users with populated Mail Databases and flood these Users with Mails, Appointments and so on.

1.1 Flood defined Users with prepared or generated Mails

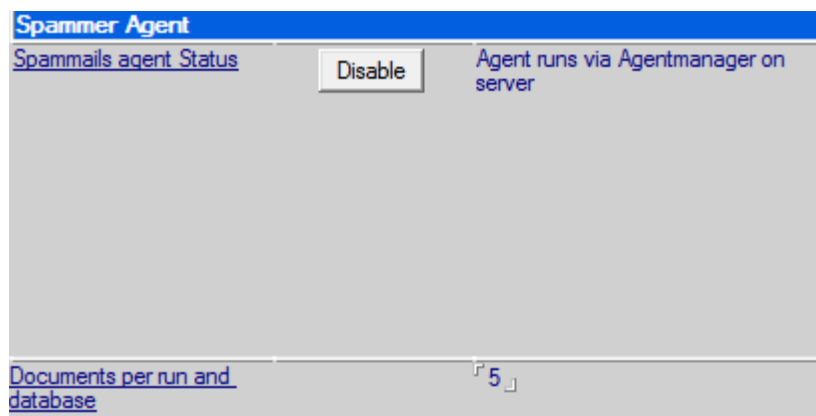
In the Main View you could Import User from any NAB, if you do not want to create it by your own. For each of these Users we see a Metadata document, which contains among creation properties a flag, if this user should receive mails by the “Mail Flooding” process. You could Select and Deselect the users by appropriate functions.



	Time	Username	Imported	Mailfilename	Size (MB)
11.01.2011					32256,00
03.01.2011					12835306,50
★	19:22:27	000005 AgentTester/Lap	✓	apps\s000005.nsf	150528,00
★	19:22:27	000006 AgentTester/Lap	✓	apps\s000006.nsf	149504,00
★	19:22:27	000007 AgentTester/Lap	✓	apps\s000007.nsf	149504,00
★	19:22:27	000008 AgentTester/Lap	✓	apps\s000008.nsf	150784,00

1.2 Defining the mails and where they come from

Here you could enable the appropriate server agent, which runs on the defined Server from the Application section and you could define, how many Mails should be send per User. All marked Users from the Main View will get this amount of Emails, whereas the System loops over each user n-times, so each user should get at least one mail per run.



1.3 Defining the properties of the mails

Here you could define the Properties of the Mails,

- How large the Mailbody should be

- From which Date Range (randomized within the Range) the Mails should be (posted and delivered Date).
If you want to create mails dynamically until now() instead of a defined End date, leave or empty the EndDate (1) field.
- How many Attachments should be created during the Run
this is a Percentage Value and is related to the "Documents per Run"
- From which Source the Attachments should be created.
 - There is the possibility to use attached Ffiles here in the Profile, but this is limited.
You should not attach GByte on Attachments because of the Usability and the Profiles load an save Times
 - There is the possibility of creating Attachments with random Content, but you have to keep in mind some performance issues.
- Where the Mails come from.
 - You could generate the Mailbody with random Content
 - You could define a Mail-Source-Database, which contains Mails, Appointments etc.
which will be used for populating the Users Mail databases.
For Each run we get a random Document out of this Source and provide the Maildatabases with this, but change the relevant Data like Ssender, Receiver, posted Date, etc.

Values for Iteration

Generate
 From embedded files
 From attachment documents

Elevation2008_06.exe
IMG_0203.JPG IMG_0221.JPG
Canon.pdf ①

Start date for random mail sent date: 13.01.2008 16 to 16

Mail properties

Mailsize in kByte: 5
Folder Count: 10
Percentage of attachments: 50
Amount of documents coming from MailSourceDB: 5

From defined database r8-xp-1/lap!!mail\SpamMail.nsf

1.4 Create Test Accounts on the current server

These Accounts will be created as person documents and with the appropriate Mailfiles located on the Server. There is no regular registration Process with creating id files! But for Performance measurements this will not be necessary.

With the Configuration Profile, you could setup all values which are necessary. Also there, you could enable or disable the server based Agents, which are responsible to create the Test-Accounts.

1.4.1 Configuration

In this setting of the configuration document you need to define the properties for the source database which is used to create the mail databases for the user accounts from. There are three approaches,

1. Build from template

You can create on source database, which is once populated and copied during the creation process of a mail user. The "Populate" button will provide you a dialog with a set of parameters used to create it the documents. The database itself will be created form a valid mailtemplate.

In this case all documents will be the same, but the creation process works quite fast!

2. Populate each time

The "Set Data" button will provide you a dialog with a set of parameters used to create it. (the same like for Populate) which will be used per User Creation. During the creation process we use the defend mailtemplate to create the user mail database and populate the new (empty) mailfile with the given parameter set with documents.

In this case all documents will be different, but the creation process needs 3-4 minutes per user!

3. None of both

Create a database source.ntf, which inherit it's design from the standard mailtemplate and fill it with documents. Afterwards change the property "This database is a template" to the value i.e. "Perfomance".

Other needed information here are the

- **Template to create from**

The filepath for the source mailtemplate, which we use for all methods.

It has to be a NTF-file, which should be created in the root of the notes data root directory and inherits its design from the standard mailtemplate. It could be a normal mailfile, i.e. out of production or separately generated with the "Populate" button besides.

The database should contain a couple of appointments, mail-documents (with and without attachments), folders and so on.

As result we need a database, which have at least 400-500 document and has a size of about 200-250 MB (depending on the average mailfile size in your company)

The Template name needs to by the same used later on in the Spammer configuration!

- **Mail Directory**

The name of the base directory, where we will create the test directories, which will store the test mailfiles.

Its location is relative to the notes data directory and you must not end it with backslash.

Keep in mind, that you use only backslashes, independent of the system you will run the agent.

- **Initial count for Directory naming**

The subdirectories of the generated mailfiles will be generated during the creation process, and are a digit number padded with 0 from the right. The running number will be computed with the formula $\text{mod}(\text{'actMailDB Count'}, \text{'Max Mailfilecount'})$ beginning at this value.

So if this value is 1, the first mailfile subdirectory will be `<Mail directory>\000001!`
Will not be used, if `Max. Filecount = 0!`

- **Max. Filecount for one Directory**

Till to this count we create mailfiles in the test directorys. We create the test directory in the syntax

`<MailDirectory>\Right("000000" + toString(Startvalue + n),`
where n is the count of created mailfile / `maxFilecount`.

Important:

If this value is 0, we do not create subdirectories, all files will be created directly under the given directory 'MailDirectory' in the form: `<MailDirectory>\mail-filename`.

- **Mailfile Prefix**

The mailfile name will be built in the form
`<Directory><Mailfile Prefix><Mailfile Index>.nsf`
This value is the left part of the name.

- **Mailfile Index from**

The Mailfile will be built in the form
`<Directory><Mailfile Prefix><Mailfile Index>.nsf`

This value describes, how the index will be formatted. We take the normal behavior from the LotusScript `Format()` instruction. So the String "000000" will create an index, which is in the form "000000" - "nnnnnn", in every case from the same length, padded from the right with the character "0".

On the other hand the string "#" formats the index in variable length, so there are no padding chars and the index runs from "0" to "nnnnnn".

This is important for the used test tool. So "Spammer" needs the files in the form
mail0.nsf - mail999999.nsf and - G2 Tools needs it in the form s0000000.nsf - s999999.nsf

Description `format()` command:

- "" (Empty string)

Display the number with no formatting

- 0 (zero)

Digit forced display. A digit is displayed for each zero in `fmt`, with leading or trailing zeros to fill unused spaces. All digits to the left of the decimal separator are displayed. If the number includes more decimal places than `fmt`, it is rounded appropriately.

- # (pound sign)

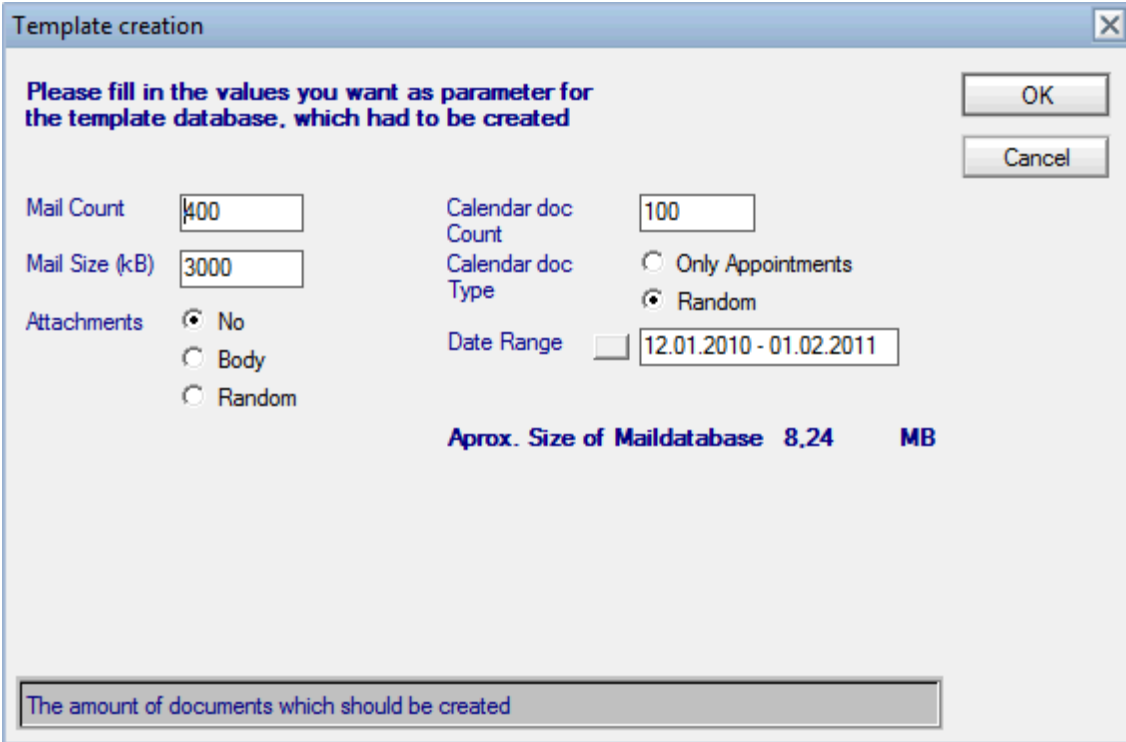
Digit conditional display. The same display as 0

(digit forced display), except that no leading or trailing zeros are displayed.

Naming conventions for the generated Mailfiles and the directories where they are located	
Mail directory	mail
Creation method	<input checked="" type="radio"/> Build from Template <input type="radio"/> Populate each time again
Template Name	mail (R8)
Sourcemailfile inherit from	mail8.ntf
Template to create from	Source.ntf
Max Filecount for one directory	0
Initial Count for Directory naming	0
Mailfile Prefix	s
Mailfile Index form	000000

1.4.2 Procedure:

Create the Base Database as a NTF (i.e. test.ntf) with the Function "Populate" in the Configuration profile. A dialog will be opened, where you could define the Mails, Attachments with creation mode, with which the database will be populated.



Template creation

Please fill in the values you want as parameter for the template database, which had to be created

Mail Count: Calendar doc Count:
 Mail Size (kB): Calendar doc Type: Only Appointments
 Attachments: No Random
 Body Date Range:
 Random

Aprox. Size of Maildatabase 8,24 MB

The amount of documents which should be created

Don't forget to give it a proper template name, because this is necessary for Server.load to run successfully.(All created databases inherit their design from this base database!)

After the creation of that base database (only once!)

- Set the agent runtime values
 - You could define a Run-Window (i.e. nighttime) and a first start time, where the agent should run
 - The maximum runtime allowed (less than maxAgentRuntime from names.nsf)
If you use the button besides, this value is proper computed from the server profile value!

Application values		
Maximum Runtime of the scheduled agent	<input type="button" value="Get"/>	9 Minuten
Earliest date from which on the agent was active	<input type="button" value="Date"/>	18.06.2001
Time window in which Agent is active ist:		09:15 to 23:30
Scheduled agent Status	<input type="button" value="Disable"/>	Agent runs via Agentmanager on server

- Set the values for the start and end index and don't forget to reset the currently "Created databases during last run"

Amount of databases and index numbers for the Username generation (Firstname is the current index from StartValue to Endvalue in the format '000000')	
Start value	┌ 1 ┐
End value	┌ 10 ┐
Created Mailfiles during the last run	<input type="button" value="Reset"/> ┌ 0 ┐

- Set the needed values for computing the Mailfile Name and the directories, where the agent creates the Mailfiles

Naming conventions for the generated Mailfiles and the directories where they are located	
Nab Name	┌ names.nsf ┐
Mail directory	┌ apps ┐
Sourcemailfile template	<input type="button" value="Populate"/> ┌ test.ntf ┐ ┌ Performance ┐
Template Name	
Max Filecount for one directory	┌ 0 ┐
Initial Count for Directory naming	┌ 0 ┐
Mailfile Prefix	┌ \$ ┐
Mailfile Index form	┌ nnnnnn ┐

- Set the additional personal document values for the creation of the users!

Person Information Values	
Location	「Waldstraße 4」
Department	「Home」
Manager	「LocalAdmin」
Company Name	「Freelancer」

Then enable the agent. After a few minutes, the agent will begin to create the person documents (ID is attached) and the appropriate Mailfiles

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