Exchange Reporter Manual

Version: 3.8

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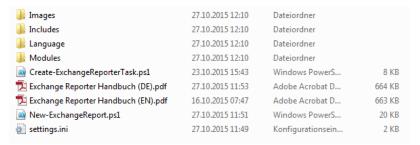
How it works

Exchange reporter consists of several modules which can independently collect information and present in an e-mail or website. An installation of Exchange reporter is not required. Exchange reporter can be started directly through Windows PowerShell or through a scheduled task. The configuration is done via the Settings.ini file.

The modules make it possible to record only the information in the report, which also are needed. On several instances, it is also possible to generate different reports on different days or times.

It is also possible to translate Exchange reporter in other languages. Currently Exchange reporter exists in in German and English language.

Exchange reporter even has the following structure:



Directories:

Images	Location of icons for different modules
Includes	Scripts that are loaded at run time (functions, Exchange Snaplns)
Language	Location of the language files of each module
Modules	Location of each module

In addition to the above mentioned directories, the directory of 3rdParty in following directories exist:

Modules, Language\EN, Language\DE, Images

3rdParty contains files/scripts/modules that were not developed by me, but have been contributed by other users.

Therefore, it is also possible to develop your own modules and to provide to general public.

Files:

Create-ExchangeReporterTask. ps1	Script for automatically creating of a scheduled task
Exchange reporter's Guide (en) .pdf	This manual in German language
Exchange reporter's Guide (EN) .pdf	This manual in English
New ExchangeReport. ps1	Hauptscript which loads the module and generates the report
settings.ini	Settings for E-Mail, voice, modules, reports etc

The other functions are documented in the following.

Prerequisites

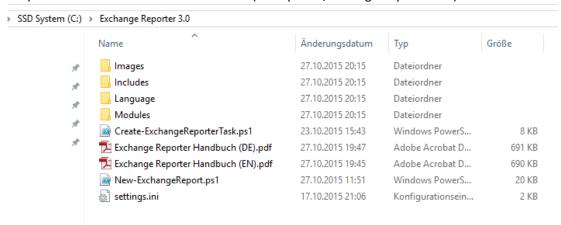
- Windows Server 2008 R2 or Windows 7 version or higher
- PowerShell 4.0 or higher
- Exchange 2010 or Exchange 2013 or Exchange 2016 Management Shell
- other requirements are possible depending on the module (see module documentation)

Installation and configuration

The installation of Exchange reporter is easy, the necessary steps are documented in the following.

Unpack archive

Unpack the ZIP archive in desired location (example C:\Exchange Reporter 3.0)



The installation folder can be chosen freely. The folder structure within the installation folder must not be changed.

Configuration

After unpacking the archive, the settings.ini file must be adapted to the own environment.

• Customize the settings.ini



The General settings such as recipients, senders and mail server through which the report will be sent can be found in the upper part of the Settings.ini [ReportSettings]. The settings must be adjusted accordingly:

Setting	Default value	Description
Recipient	Frank@frankysweb.de	E-Mail address or distribution group of the report recipient
Transmitter	report@frankysweb.de	Return address of reports
Mail server	SMTP.frankysweb.local	IP address of the SMTP server, the report will be sent via the
SMTPServerAuth	No	Login with user/password to the mail server, valid values: Yes / No
SMTPServerUser	username	User name for the mail server logon
SMTPServerPass	P@ssw0rd	Password for the mail server logon
Subject	Report	Subject of the report E-mail
AddPDFFileToMail	No	Report in addition as a PDF the report mail valid values attach to,: Yes / No
Interval	7	Number of days to be included in the report (1 or 7)
DisplayTop	50	Number of to display values in the top lists
CleanTMPFolder	Yes	After successful report the temp. Delete folder, valid values: Yes / No
WriteErrorLog	Yes	Create error log errorlog.txt
OnlyUseOffice365	No	Only Office365 use, if there is no local Exchange Server, valid values: Yes / No
IntegrateInExchangeMonitor	No	Exchange monitor, added the report. valid values: Yes / No
ExchangeMonitorInstallPath	C:\ExchangeMonitor	Path to the Exchange monitor installation

[LanguageSettings] Language=EN

The language can be adjusted in the second section [LanguageSettings]

Currently are German (DE) and English (EN) language supported.

In the section of the [modules] modules should be to specify the modules, whose data is included in the report.

```
[Modules]
01=mailreport.ps1
02=esareport.ps1
03=dgreport.ps1
04=dyndgreport.ps1
05=F5LTMReport.ps1
06=spacereport.ps1
07=serverinfo.ps1
08=mxreport.ps1
09=rblreport.ps1
10=bpreport.ps1
11=HPiLOreport.ps1
12=addsinfo.ps1
13=vmwarereport.ps1
14=dbreport.ps1
15=dagreport.ps1
16=oabreport.ps1
17=mbxreport.ps1
18=rightsreport.ps1
19=auditlogreport.ps1
20=pfreport.ps1
21=clientinfo.ps1
22=easreport.ps1
23=redirectreport.ps1
24=careport.ps1
25=updatereport.ps1
26=o365report.ps1
27=dmarcreport.ps1
```

Unnecessary modules can be removed from the [modules] section (for example dagreport. ps1, if no DAG configured), also a different collation in the report is possible by changing the order. It is also possible to comment out modules using prefixed ";" (Semicolon).

```
[3rdPartyModules]
02=pfreplreport.ps1
```

Works similarly as the module section in the Settings.ini the range [3rdPartyModules], here you will find modules which were developed by me, but have been contributed by users. Your own modules can be downloaded here.

```
[ExcludeList]
;mailreport=postmaster@frankysweb.de,exchangemonitor@frankysweb.de
;mbxreport=Frank,Archive
```

In the area of [ExcludeList] information from the report can be filtered out for specific modules.

The module, then the information that should not be listed here is prefixed. Currently, this function only is available in selected modules.

For the module mailreport E-Mail addresses can be specified here, which do not appear in the report. Excluding the journal mailbox for example.

For the module mbxreport mailboxes can be specified, which should not be listed in the report. Here is the alias of the mailbox to be specified and not like in the mailreport the email address.

Scheduled task

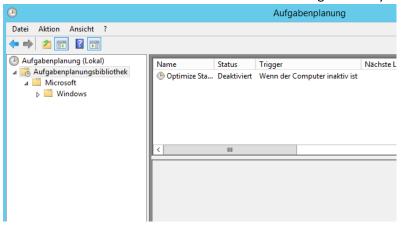
To create the task, the script can "create-ExchangeReporterTask. ps1" be used. It can be found in the installation folder and must be run from the installation folder using the PowerShell.



The script automatically creates a corresponding task, if the interval is set to 1 or 7 days.



The scheduled task can be created to define own settings manually.



Aufgabe erstellen

Allgemein Trigger Aktionen Bedingungen Einstellungen

Name: Exchange Reporter 2013

Speicherort: \
Autor: FRANKYSWEB\administrator

Beschreibung:

Sicherheitsoptionen
Beim Ausführen der Aufgaben folgendes Benutzerkonto verwenden:
FRANKYSWEB\administrator

Nur ausführen, wenn der Benutzer angemeldet ist

Unabhängig von der Benutzeranmeldung ausführen

Kennwort nicht speichern. Die Aufgabe greift nur auf lokale Computerressourcen zu.

Mit höchsten Privilegien ausführen

Ausgeblendet Konfigurieren für: Windows Vista™, Windows Server™ 2008

ОК

Abbrechen

Choose actions click "Create task" in the field, name given and "Execute independently of the user logon"

On the tab "Trigger" configure a schedule according to the interval in the Settings.ini. Exchange reporter used as end time always the previouse day example:

Interval settings.ini = 7

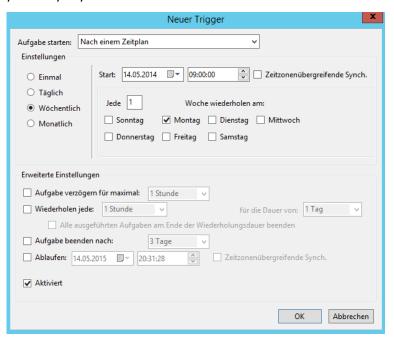
Trigger a week on Monday 09:00

Report from Monday to Sunday

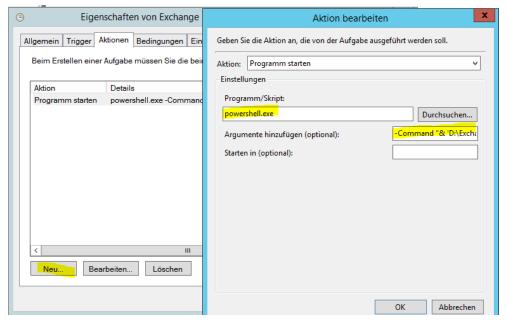
Interval settings.ini = 1

Trigger every day 09:00

Report yesterday day



On the tab "New action" create an action



Program:

PowerShell.exe

Arguments:

-Command ' & ' C:\Exchange reporter 3.0\New-ExchangeReport.ps1' - installpath ' D:\Exchange reporter 3.0'"

As arguments specify the path to the script "new-ExchangeReport. ps1" and pass the installation directory with the parameter -InstallPath.

Note: Pay attention to the syntax ("and '"). When copying the command, paste it in Notepad and have a look on the syntax.

When you save the task, you must specify a user with the appropriate password who is a member of the group "Exchange Organization Administrators".

Several tasks (optional)

With the -ConfigFile parameter, it is possible to run Exchange reporter with different configurations.

This makes it possible to send different reports to different people or to send a general report once in a week, but every day, an overview of the blacklists.

To load several different configurations, you have to duplicate the Settings.ini and configure it.

Name	Anderungsdatum	Тур	Größe
Images	27.10.2015 20:15	Dateiordner	
Includes	27.10.2015 20:15	Dateiordner	
Language	27.10.2015 20:15	Dateiordner	
Modules	27.10.2015 20:15	Dateiordner	
Create-ExchangeReporterTask.ps1	23.10.2015 15:43	Windows PowerS	8 KB
🔁 Exchange Reporter Handbuch (DE).pdf	27.10.2015 19:47	Adobe Acrobat D	691 KB
🔁 Exchange Reporter Handbuch (EN).pdf	27.10.2015 19:45	Adobe Acrobat D	690 KB
New-ExchangeReport.ps1	27.10.2015 11:51	Windows PowerS	20 KB
settings.ini	17.10.2015 21:06	Konfigurationsein	2 KB
settings_rbl.ini	17.10.2015 21:06	Konfigurationsein	2 KB

Exchange reporter can now manually start with - ConfigFile parameter to load an other Settings.ini:

```
Windows PowerShell

PS C:\Exchange Reporter 3.0>

PS C:\Exchange Reporter 3.0> .\New-ExchangeReport.ps1 -ConfigFile settings_rbl.ini
```

You can also create a task with the new settings.ini file:

Programm:

Powershell.exe

Argumente:

-Command "& 'C:\Exchange Reporter 3.0\New-ExchangeReport.ps1' -installpath 'D:\Exchange Reporter 3.0' -ConfigFile 'settings_rbl.ini'"

Warning: Pay attention to the syntax ("and ""). When copying the command, paste it in notepad, because otherwise any special characters will show up.

Manual start (optional)

Exchange reporter can be started manually from the PowerShell. The Windows PowerShell must be used for the manual start. A call from the Exchange Management Shell will cause errors. The Settings.ini file must be configured appropriately. The manual call is made via:

.\New-ExchangeReport.ps1

Example:

```
Windows PowerShell
PS C:\Exchange Reporter 3.0>
PS C:\Exchange Reporter 3.0> .\New-ExchangeReport.ps1
```

Update

To perform an update, it is enough to overwrite all files in the installation folder with the files from the current version. The file Settings in the installation directory can be backuped so that settings are not lost.

Note: If an update contains new modules, the old Settings.ini must be adapted to load the new module.

Note: May be there will be added parameters to the Settings.ini with an update, after the update the old and the example Settings.ini must match.

Modules

Here is a description of the available modules, their requirements and if necessary settings options.

addsinfo. ps1

Function:

The ADDSInfo module creates an overview of the Active Directory, AD schema version and shows replication errors if any.

Requirements:

- ADDS PowerShell SnapIns
- Remote Server Administration

dagreport. ps1

Function:

The DAGReport module shows information about the DAG and the index status. Also displays whether the databases fail over has occurred.

Requirements:

Exchange Management Shell

dbreport. ps1

Function:

The DBReport module provides an overview of the Exchange databases.

Requirements:

Exchange Management Shell

dgreport. ps1

Function:

The DGReport module lists unused distribution groups.

Prerequisite:

• Exchange Management Shell

dyndgreport. ps1

Function:

Overview of dynamic distribution groups and their members.

Prerequisite:

• Exchange Management Shell

bpreport. ps1

Function:

The BPReport module shows any back pressure events. There's more information about back pressure

https://TechNet.Microsoft.com/en-us/library/bb201658.aspx

Requirements:

• Remote Server Administration

easreport. ps1

Function:

The engine EASReport creates an overview of the associated ActiveSync devices and their number. Also lists devices that were not synchronized for more than 60 days.

Requirements:

Exchange Management Shell

mailreport. ps1

Function:

The module MailReport provides statistics about the number and volume of sent mails. Top sender and recipients.

Requirements:

Exchange Management Shell

o365report. ps1

Function:

The module provides statistics and reports for Office 365. The module can perform in addition with other modules, or start using parameters in the settings in without local Exchange installation.

Requirements:

• Office 365 plan

Settings in the Settings.ini:

```
[Office365]
0365Username=admin@office365domain.de
0365Password=P@ssW0rd
```

Only user name and password for Office 365 will be required in the settings.ini. If there is no local installation of Exchange, set the value for "OnlyUseOffice365" in the settings.ini to "Yes":

```
[Reportsettings]
Recipient=frank@frankysweb.de
Sender=report@frankysweb.de
Mailserver=smtp.frankysweb.local
SMTPServerAuth=no
SMTPServerUser=username
SMTPServerPass=P@ssW0rd
Subject=Report
AddPDFFileToMail=no
Interval=7
DisplayTop=20
CleanTMPFolder=yes
WriteErrorLog=ves
OnlyUseOffice365=no
IntegrateInExchangeMonitor=no
ExchangeMonitorInstallPath=c:\ExchangeMonitor
```

Therefore, no Exchange Management Shell is required.

Note: Additional modules that require the Exchange Management Shell can no longer be used.

esareport. ps1

Function:

Displays information about the Cisco Email Security Appliance, better known as IronPort. ESAReport has its own section within the settings.ini:

```
[CiscoESA]
ESAIPs=192.168.200.1,192.168.200.2
ESAUser=username
ESAPassword=P@ssW0rd
```

ESAIPs = IP addresses or FQDNs of the IronPort (separate multiple with a comma)

ESAUser = user with SSH access

ESAPassword = password

Please note the conditions (Installation instructions in the Appendix.)

Requirements:

- ESA Cisco / IronPort (virtual or physical appliance)
- Open source SSH PowerShell modules:

http://www.powershellmagazine.com/2014/07/03/posh-SSH-open-source-SSH-PowerShellmodule/

mbxreport. ps1

Function:

The MBXReport module provides an overview of the largest mailboxes and mailboxes are located close to the sending limit.

Requirements:

Exchange Management Shell

pfreport. ps1

Function:

The engine PFReport creates an overview of the public folder mailboxes (or databases in Exchange 2010) and the size of the public folder.

Requirements:

Exchange Management Shell

oabreport. ps1

Function:

The OABReport module provides an overview of offline address books.

Requirements:

Exchange Management Shell

redirectreport. ps1

Function:

RedirectReport module displays mailboxes to - and forwarding to other email addresses.

Requirements:

Exchange Management Shell

ServerInfo. ps1

Function:

The ServerInfo module provides information on the Exchange organization and the Exchange certificates. Also it shows errors in the event log of the Exchange Server.

Requirements:

Exchange Management Shell

rblreport. ps1

Function:

78 black list tests the RBLReport module that the own IP addresses are listed. The script uses the IP addresses of MX entries. the RBLs can within the file *rblreport. ps1* be changed. If there is only one external may otherwise email domain with an MX record, these can also be set in the script.

Requirements:

- Exchange Management Shell
- External DNS resolution of the computer running Exchange reporter must be allowed.
- PowerShell 4 / 8 Windows Server 2012 or later
- Windows 7 / Server 2008, further steps are needed. See annex.

mxreport. ps1

Function:

The module MXReport lists the configured MX records and displays information about the SPF record. A connection test on port 25 (SMTP) is performed to detect configuration problems fast. Within the module mxreport. ps1 can be specified, whether the exchange of accepted domains, or other domains should be tested

Requirements:

- Exchange Management Shell
- External DNS resolution of the computer running Exchange reporter must be allowed.
- PowerShell 4 / 8 Windows Server 2012 or later
- Windows 7 / Server 2008, further steps are needed. See annex.

caReport. ps1

Function:

The CAReport module delivers a report to the AD CA. Information about certificates that are expired and expiring soon.

Requirements:

• PSPKI module: https://github.com/Crypt32/PSPKI (installation instructions in the Appendix.)

spacereport. ps1

Function:

The module SpaceReport shows the used and free disk space of Exchange Server and the domain controller.

Requirements:

- Exchange Management Shell
- WMI

ClientInfo. ps1

Function:

ClientInfo module displays statistics about the Exchange clients.

Requirements:

Exchange Management Shell

updatereport. ps1

Function:

The UpdateReport module shows available Windows updates of the Exchange Server.

Requirements:

- Exchange Management Shell
- Remote Server Administration

rightsreport. ps1

Function:

The module provides information about mailbox permissions

Requirements:

Exchange Management Shell

F5LTMReport. ps1

Function:

The module F5LTMReport uses the iControl PowerShell SnapIns F5 (link below) to query a F5 LTM appliance or Virtual Edition.

Displays information about the system, virtual service, pool and pool members. So far, the information is limited to the moment when the module is running.

The module is not compatible with other Loadbalancern. The module has its own section within the settings.ini:

[F5-BigIP-LTM]
F5LTMIP=192.168.200.10
F5LTMUser=admin
F5LTMPassword=P@ssW0rd
F5VirtualServer=outlook.frankysweb.de

F5LTMIP= IP oder FQDN vom Management Interface der F5

F5LTMUser = Benutzer (ReadOnly ausreichend)

F5LTMPassword= Passwort für den Benutzer

F5VirtualServer= Name des Virtual Service auf der F5

F5LTMIP= IP or FQDN of the management interface of the F5

F5LTMUser= users (ReadOnly sufficient)

F5LTMPassword= password for the user

F5VirtualServer= name of the virtual service on the F5

Requirements:

- F5 LTM version 11
- iControl PowerShell SnapIns (https://devcentral.f5.com/d/microsoft-powershell-with-icontrol))

HPiLOReport. ps1

Function:

The module provides information about HP Server. The module is not compatible with third-party servers.

Requirements:

- HP Server with iLO
- HP scripting tools for Windows PowerShell
 (http://h20566.www2.hp.com/hpsc/swd/public/readIndex?sp4ts.oid=5440658 & lang = en & cc = US))

vmwarereport. ps1

Function:

The module VMwareReport reads information about the ESX servers and their datastores, running the Exchange Server.

The module has its own section within the settings.ini:

[VMwareReport]
vCenterServer=vcenter.frankysweb.local
vCenterUser=root
vCenterPassword=P@ssW0rd
VM1=fwexchange01
VM2=fwexchange02

vCenterServer= FQDN or IP of the vCenter Server

vCenterUser= user role in the vCenter

vCenterPassword = password for vCenterUser

VM1= name of the VM which should be included in the report

VM2= name of the VM which should be included in the report

VMn= name of the VM which should be included in the report

(unlimited configurable)

Requirements:

- VMware PowerCLI
 (https://www.vmware.com/support/developer/PowerCLI/PowerCLI55R2/powercli55r2-releasenotes.html)
- vCenter Server

nospamproxy.ps1

Function:

The NoSpamProxy module provides statistics and data from the NoSpamProxy installation. The configuration of the module is done via the settings.ini file:

[NoSpamProxy] NSPServer=nsp.frankysweb.local NSPUser=admin NSPPassword=P@ssW0rd

Requirements:

To collect the data, the module must be able to establish a remote PowerShell connection to the NoSpamProxy intranet role.

How to configure a remote PowerShell connection is described here:

https://4sysops.com/archives/enable-powershell-remoting-on-a-standalone-workgroup-computer/

3rd party modules

3rd party modules are modules not developed by me, but by users. The modules are stored in the folder "\$InstallPath\Modules\3rdParty". The corresponding icon is located in the folder

"\$Installpath\Images\3rdParty". 3rd party modules are not by me maintained, but recorded after checking in Exchange reporter.

3rd party modules to following E-Mail address will be sent: frank@frankysweb.de

3rd party modules have an own section within the Settings.ini:

```
[3rdPartyModules]
01=auditreport.ps1
```

The modules can be like normal modules within the section replace or enable/disable are. If no 3rd party modules would like to insert can simply remove the entries from the Settings.ini. But touch the entry [3rdPartyModule].

In the directory "\$Installpath\Images\3rdParty" module, which explains the functions and the structure of a module is a demo.

pfreplreport. ps1

Developed by: Ralph Andreas Altermann & Florian Heller, Alfru GmbH - IT. System

Function:

This report displays all public folders (IPM_Subtree and NON_IPM_SUBTREE) and whose replication status between the databases.

Plus there are all the results into a CSV export option to make (see more information in the pfreplreport module ps1 in the 3rdParty directory)

By default, this script is disabled.

Requirements:

Exchange Management Shell

Debugging / troubleshooting

General

Failure to modules, please check the requirements, some modules require additional components to be installed.

Enable remote PowerShell:

Enable-PSRemoting

Enable remote server administration:

netsh firewall set service RemoteAdmin enable

PS scripts can be not executed after downloading:

• Get-ChildItem C:\Installationspfad recurse | unblock file

"Settings.ini" not found:

• InstallPath specify parameters, see "manual start"

addsinfo. ps1

Error in the error log: the RPC server is unavailable

FIX: On all domain controllers must be activated the following 3 firewall rules (inbound):

- Remote event log management (NP-in)
- Remote event log management (RPC)
- Remote event log management (RPC-EPMAP)



Report a website in IIS

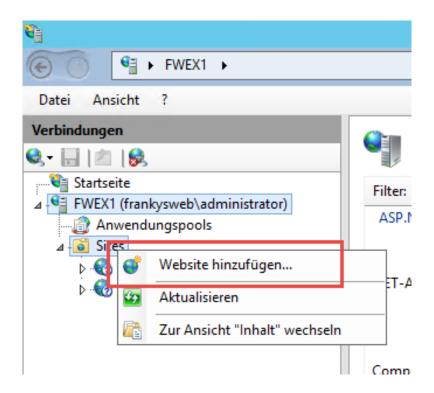
The Exchange report can also be integrated into the Exchange monitor, to do so the value can be in the Settings.ini for "IntegrateInExchangeMonitor" set to "Yes". The "ExchangeMonitorInstallPath" parameter then the installation directory (or SMB share) at the Exchange monitor. This function is suitable but also to the report as a standalone site to display. This can be carried out as follows:

Creates a "HTML" directory and in a subfolder of "Reporter" on a Web server

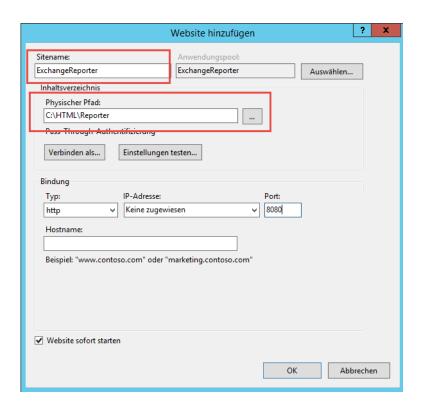


Sets the value in the Settings.ini for "IntegrateInExchangeMonitor" "Yes" and enter the path "c:\HTML" (without the "Reporter") for "ExchangeMonitorInstallPath".

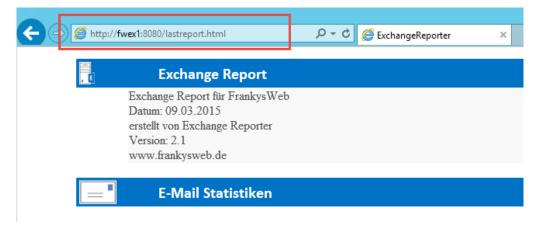
Creates a new site manager then in IIS (I use an Exchange Server, so I'm running the site on port 8080):



Set the site name and as the PHY. Select the path "C:\HTML\Reporter".



The report is now on "is, http://servername: 8080/lastreport.html available"



In IIS Manager you can also a certificate and configuring user authentication, if needed.

Report as a PDF

The report as a PDF file to the mail can be attached via the parameter **AddPDFFileToMail = Yes** in the Settings.ini. For the generate PDF files the program is "wkhtmltopdf" (open source) required in the 64-bit Edition. Wkhtmltopdf can be downloaded here:

http://wkhtmltopdf.org/downloads.html

Installation instructions can be found in the annex.

Changelog

Version 2.0

First public version

Version 2.1

- New module
 - o Addsinfo. ps1 information about Active Directory and replication errors
- Changes to server info. ps1: DomainController now in addsinfo. ps1 lists
- Bugfix: Days of the week in mail report. ps1 messed up
- Bugfix: ActiveSync devices are not enumerated
- Integration with Exchange monitor, and file of the report as a HTML report
- Revised documentation

Version 2.2

- New module
 - o careport. ps1 information about the CA and certificates
 - o pfreport. ps1 information about the public folders
- Bug fix: Fixed spelling errors
- Bug fix: Installpath is not longer required parameter, the script determines the path itself.

Version 2.3

- Extension Exchange reporter to 3rd party module compatibility
- New (first) 3rd party module Igmar Brueckner
 - o Auditreport. ps1 information about changes to the Exchange configuration
- New module
 - \circ rights report. ps1 - information about mailbox permissions
- Revision mbxreport. ps1
 - Display inactive mailboxes

Version 2.4

- New function
 - Attach the report as a PDF to mail
 - o mbxreport. ps1: display disconnected mailboxes
- Bug fixes
 - o Only the images for the enabled modules are attached to the mail
 - o Display problems when ClientInfo. fixed ps1
 - o pfreport. ps1: DateTime problem
 - o rightsreport. ps1: problem with English Exchange servers is resolved, send as and send on behalf rights are displayed
 - o spacereport. ps1: MountPoints are now displayed
 - o Improved function of the Exchange version detection
 - o dgreport. ps1: fixed bug with variable name
- 3rdParty demo module added (3rdPartyDemo. ps1)
- New module
 - o esareport. ps1: displays information about the Cisco email security appliance (IronPort)
- Extended documentation

Version 2.5

- Bug fixes
 - Some icons in the report were not displayed
 - o Display the interval in the report
 - o Text "No failover occurred", added if no failover of databases has occurred
 - o mbxreport. ps1: date of disconnected mailboxes was not displayed
 - o Optimization of representation on the shell
- New module
 - o bpreport. ps1: displays Exchange BackPressure events
 - o dyndgreport. ps1: shows information about dynamic distribution groups
- New features
 - o mailreport. ps1: average values email
 - Average number of messages per mailbox
 - Average volume per mailbox
 - Average size of a mail
 - \circ pfreport. ps1: display of maximum 200 public folders by size
 - o easreport. ps1: active active sync devices are displayed
 - o Support for coexistence scenarios (Exchange 2003/Exchange 2007)

Version 2.6

- New features
 - o Office365 is now supported (see module o365report. ps1)
 - o Setting in settings.ini if only Office365 is used
 - o redirectreport. ps1: display of implementation, redirects that were set on the Exchange
 - o Number of to display values for the top lists configurable (top 10 recipients, etc)
- New module
 - o o365report. ps1: Office 365 reports / statistics
 - o rblreport. ps1: 78 black lists is testing whether the own IPs are listed
 - mxreport. ps1: shows information about the MX and SPF records and performs a connectivity test
- New 3rdParty module by Ralph Andreas Altermann & Florian Heller, Alfru GmbH IT. System
 - o pfreplreport. ps1: extended information about public folders and their replication status
- Bug fixes
 - Revised documentation
 - o Modules can be preceded by ";" (Semicolon) commented out are
 - o Multiple recipients can be specified in the Settings.ini (separated by ',' comma)
 - o Incorrect name for graphic of the bpreports

Version 3.0

- New features (major update)
 - o First multilingual version (German and English)
 - o Optical adjustment of graphics, based on Windows 10 / Server 2016
 - o Filter out possible for senders and receivers
 - o Support for Exchange 2016 and Outlook 2016
 - o Possibility to hide certain mailboxes, sender and recipient
 - o Mail report. ps1: statistics sent / receive emails when there is more than one server per Exchange Server
 - o With the parameter ConfigFile Exchange reporter can be started in different configurations
- Bug fixes
 - o Bpreport. ps1: note, if any back pressure events
 - o Spacereport. ps1: WMI query modified to identify the appropriate volumes more reliable
 - o Oabreport. ps1: fixed a bug when Exchange is installed on a drive other than C:
 - New ExchangeReport. ps1: improved logging
 - o ClientInfo. ps1: Outlook for MAC will be shown separately
 - Easreport. ps1: display the Outlook mail app
 - o Server 2012 recovery partitions will be hidden
 - Revised documentation
- New module:
 - o dmarcreport. ps1: the DMARC displays entries and evaluates the DMARC reports
 - o auditlogtreport. ps1: shows Exchange configuration changes and mail box audit logs to

Version 3.1

- Bugfixes
 - o O365report.ps1: Report was showing only first 1000 results, resolved by Kari
 - o Mbxreport.ps1: Now showing more than 1000 results per database (Thanks, Mario)

- Clientinfo.ps1: Interval from settings.ini was ignored
- o Rightsreport.ps1: Deny rights filterd (Thanks, Daniel)
- Mailreport.ps1: Inbound mail count and size was not displayed if there are more than one transport server (Thanks, Martin)
- Mailreport.ps1: better error handling
- New Modul
 - KempReport.ps1: Support for Kemp Loadmaster Loadbalancers

Version 3.2

- Bugfixes
 - o Exchange version detection increased
 - Kemp settings in Settings.ini
 - Solved problem with multiple AD Domains
 - Office365Report: Sorting problem (Thanks Kaari)
 - DGreport: bugfixes with large groups (Thanks Marcel)
 - MXreport: problem with SMTP connection test (Thanks Ajdin)
 - o RBLreport: solved problems with RBL checks (Danke Ajdin)
 - CAreport: bugfixes
 - DMARC and RBLReport used same varibale "UseExchangeDefaultDomain" (Thanks Mario)
- New moduls:
 - SSLLabsReport.ps1: Qualys SSL Labs Test for Exchange
 - POPconReport: Overview for Servolutions POPcon
 - o PRTGReport: Displays values from PRTG
 - o UTMReport: displays values from Sophos UTM E-Mail protection
- New functions:
 - UpdateReport: Shows new posts from frankysweb.de

Version 3.3

- Bugfixes
 - HPiLOreport.ps1
 - Bugfixes (Thanks Timbo)
 - Link to HPE iLO Powershell corrected
 - UpdateReport.ps1
 - Changed to HTTPs
 - UTF8 Encoding problem solved
 - O Clientinfo.ps1:
 - Bugfixes

Version 3.4

- News:
 - Support for Server 2016 (AD) and Exchange 2019
- Bugfixes
 - o URL to PSPKI Modul corrected
 - DBReport: Whitespace within database (Thanks to Anton)
 - o MBXReport: Errormessage corrected (Danke an Florian)
 - o UpdateReport: Some improvement
 - UpdateReport: Modul now required TLS
 - o DGReport: Some improvement

- o CAReport: Modul now exits if PSKI Modul not found
- SSLLabsReport: API now requires TLS

Version 3.5

- New functions
 - FTP Upload function (Thanks to Daniel)
- Bugfixes
 - o Rblreport: Blacklist bl.spamcannibal.org removed
 - VmwareReport: PowerCli now loaded as modul(Thanks to Steffen)
 - SSLReport: small bugfix to display correct format
 - KempReport: KempReport is now working with latest firmware (getestet mit Version 7.2.46)
 - o Documentation updated
- Hinweise
 - o There are changes to settings.ini (FTP Upload), please use the included version

Version 3.6

- New modul
 - NoSpamProxy.ps1 Statistics from NoSpamProxy
- Bugfixes
 - Spacereport.ps1
 - Wiederherstellungslaufwerk wird nicht mehr angezeigt
 - Value now showing "GB"
 - Warning if low free disk space on storage
 - Server is only reported once, if Reporter is installed on a DC
 - PowerShell Version changed
 - New Exchange Logo inserted
 - Many small improvments and bugfixes
- Removed modul "clientinfo.ps1" cause it was reporting wrong data

Version 3.7

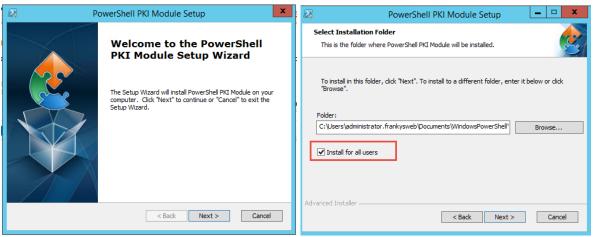
- Bugfixes
 - Vmwarereport.ps1
 - Fix for new PowerCLI version (Thanks Steffen)
 - careport.ps1
 - Fix for loading PSPKI module (Thanks Steffen)
 - dmarcreport.ps1
 - New Features (Thanks Timbo)
 - rblreport.ps1
 - Dead blacklist bl.emailbasura.org removed (Thanks Andy)
 - o mbxreport.ps1
 - Bugfix for mailbox statistics (Thanks Thomas)
 - nospamproxy.ps1
 - Module now displays NSP service states
 - Module is now showing license state
 - o o365report.ps1
 - Fix Module to use new Exchange Online PS Module

Version 3.8

- Bugfixes
 - updatereport.ps1
 - Wrong Version number. Many thanks to Leslie.
- rblreport.ps1
 - o Removed dead Blacklist dynip.rothen.com. Many thanks to Leslie.
- mailreport.ps1
 - o Fixex Typos. Many thanks to Leslie.
- updatereport.ps1
 - o Fixed "Umlauts" / Fixed wrong named variable. Many thanks to Leslie.
- Many Typos fixed. Many thanks to Leslie.
- Include_Functions.ps1
 - o Title on some charts not displayed. Many thanks to Leslie.

Annex

PSPKI installation





WKHTMLtoPDF installation

Download:

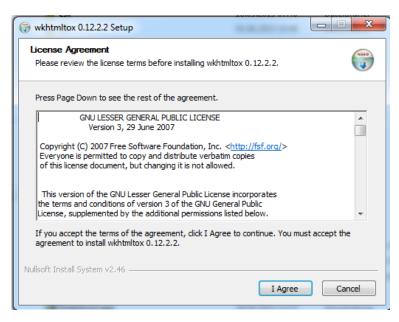
http://wkhtmltopdf.org/downloads.html (Requires the 64-bit version)

Stable

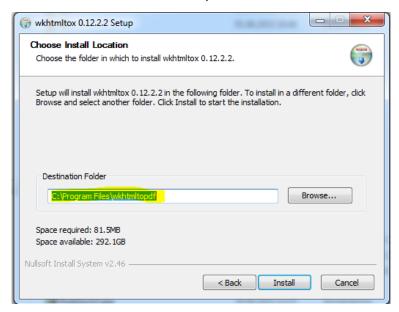
The current stable version is **0.12.2.1**, which was released on January 19, 2015 (see changes since C

Flavor	Downloads	Comments
Windows (MSVC 2013)	32-bit / <mark>64-bit</mark>	for Windows Vista or later; bundles VC++ Runtime 2013
Windows (MinGW-w64)	32-bit / 64-bit	for Windows XP/2003 or later; bundles gcc DLLs
Linux (Debian Wheezy)	32-bit / 64-bit	built on Debian 7.8
Linux (Debian Jessie)	32-bit / 64-bit	built on Debian 8 (prerelease)

Installation:



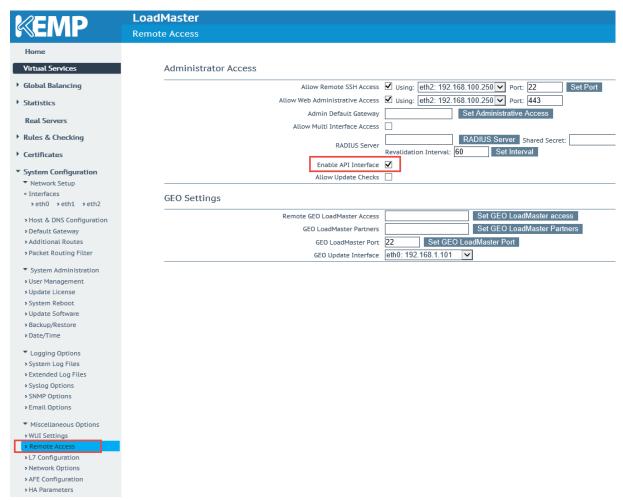
Do not customize installation path and leave it on default.



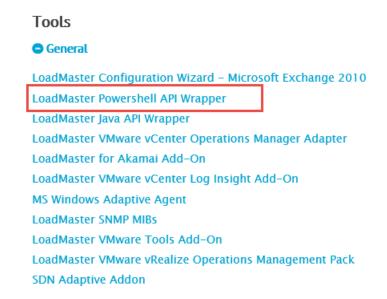
Activate Kemp Loadmaster API Interface

The Module KempReport.ps1 requires enabled API Interface on Kemp Loadmaster:

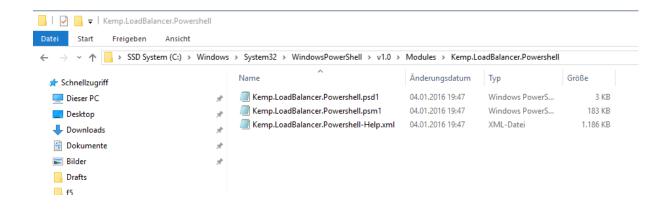
Remote Access -> Enable API Interface



The Loadmaster PowerShell API Wrapper must be stores in the following directory:



C:\Windows\System32\WindowsPowerShell\v1.0\Modules



Open source SSH PowerShell modules

Note: This module is required for SSH connections (E.g. easreport. ps1)

Download:

http://www.powershellmagazine.com/2014/07/03/posh-SSH-open-source-SSH-PowerShell-module/

Installation:

For the installation it is sufficient in the PowerShell execute the following command:

IEX (new-object Net.WebClient). DownloadString (-

"https://gist.github.com/darkoperator/6152630/raw/c67de4f7cd780ba367cccbc2593f38d18ce6df89/inst poshsshdev")

After the installation it should look like this:

mxreport.ps1 and rblreport.ps1 under Windows 7 / Server 2008

The modules mxreport. ps1 and rblreport. ps1 CMDLet "resolve-DnsName" requires, which is included in the PowerShell 4 on Windows Server 2012 and Windows 8. The CMDLet is not included in Windows 7 and Server 2008. To use the function still on Windows 7 or Server 2008 (R2), the following folder can be copied 7 Client / Server 2008 8 client on the Windows of an or Windows Server 2012:

"C:\windows\system32\WindowsPowerShell\v1.0\Modules"

Also the additional PowerShell CMDLets can be used.

Settings.ini (standard)

[Reportsettings]

Recipient=frank@frankysweb.de

Sender=report@frankysweb.de

Mailserver=smtp.frankysweb.local

SMTPServerAuth=no

SMTPServerUser=username

SMTPServerPass=P@ssW0rd

Subject=Report

AddPDFFileToMail=no

Interval=7

DisplayTop=20

CleanTMPFolder=yes

WriteErrorLog=yes

OnlyUseOffice365=no

IntegrateInExchangeMonitor=no

ExchangeMonitorInstallPath=c:\ExchangeMonitor

[LanguageSettings]

Language=EN

[Modules]

01=mailreport.ps1

02=esareport.ps1

03=dgreport.ps1

04=dyndgreport.ps1

05=F5LTMReport.ps1

06=spacereport.ps1

07=serverinfo.ps1

08=mxreport.ps1

09=rblreport.ps1

10=bpreport.ps1

11=HPiLOreport.ps1

12=addsinfo.ps1

13=vmwarereport.ps1

14=dbreport.ps1

15=dagreport.ps1

16=oabreport.ps1

17=mbxreport.ps1

18=rightsreport.ps1

19=auditlogreport.ps1

20=pfreport.ps1

21=clientinfo.ps1

22=easreport.ps1

23=redirectreport.ps1

24=careport.ps1

25=updatereport.ps1

26=o365report.ps1

27=dmarcreport.ps1

[3rdPartyModules]

02=pfreplreport.ps1

[ExcludeList]

; mail report = postmaster @frankys web. de, exchangemonitor @frankys web. de ; mbxreport = Frank, Archive

[DMARC]

RUA-Address=rua@frankysweb.de Username=rua_user Password=P@ssW0rd Domain=frankysweb.local

[Office365]

ArchiveFolder=Archive

O365Username=admin@office365domain.de O365Password=P@ssW0rd

[VMwareReport]

vCenterServer=vcenter.frankysweb.local

vCenterUser=root

vCenterPassword=P@ssW0rd

VM1=fwexchange01

VM2=fwexchange02

[F5-BigIP-LTM]

F5LTMIP=192.168.200.10

F5LTMUser=admin

F5LTMPassword=P@ssW0rd

F5VirtualServer=outlook.frankysweb.de

[HPiLO]

iLOIPs=192.168.100.10,192.168.100.11

iLOUser=frank

iLOPassword=P@ssW0rd

[CiscoESA]

ESAIPs=192.168.200.1,192.168.200.2

ESAUser=username

ESAPassword=P@ssW0rd