



Service Virtualisatie met gratis Virtualize Community Edition!

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TEST NET voorjaarsevenement 2018

Programma

Service Virtualisatie met gratis Virtualize Community Edition!

9.30 uur - 11.00 uur - DEEL 1

- Concept
- Download, installatie en activering
- Overview
- Hello, World!
- Responder correlatie
- Parabank starten
- Webservice virtualiseren m.b.v. WSDL
- Datasources gebruiken

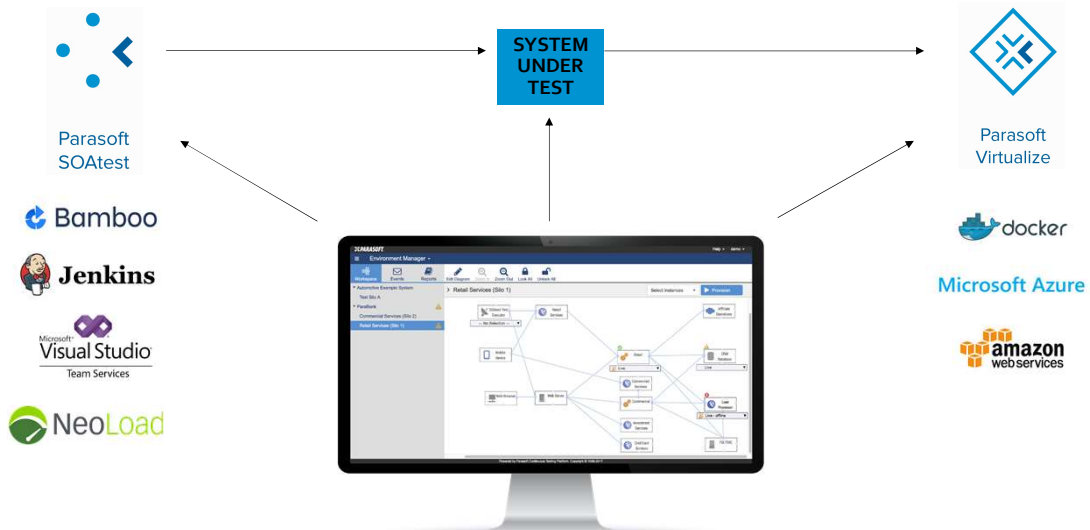
11.30 uur - 13.00 uur - DEEL 2

- Message Proxies
- REST stub maken op basis van een recording
- Schakelen tussen stub en echt endpoint
- Responses genereren met random data

11.00 uur - 11.30 uur - PAUZE



Parasoft Continuous Testing



Installatie Parasoft Virtualize CE

<https://software.parasoft.com/virtualize/community-edition/>

GET THE PARASOFT VIRTUALIZE FREE COMMUNITY EDITION

First Name

Last Name

Email *

I AGREE THAT PARASOFT WILL STORE MY EMAIL ADDRESS AND MAY CONTACT ME IN THE FUTURE.

GET VIRTUALIZE CE

Create, deploy, and manage complete environments anytime, anywhere.

- Perfect software
- Reduce costs
- Accelerate time-to-delivery

Installatie Parasoft Virtualize CE



Hello,

Thank you for your Community Edition download request. You should receive a download link shortly. As the team that supports our community edition users, we want to make sure you have all the information you need to gain value from Virtualize CE.

- **Where is my download link?**

We are processing your request and you should receive an email with your download link from Parasoft in approximately 5-10 minutes. Please check your inbox for an email with the subject line, "[DOWNLOAD] Parasoft Virtualize Community Edition." Please note that the download link is valid for 7 days. If 7 days have passed since your initial request, prior to installation, please request a new download link on the Parasoft Community Edition page.

- **Are you experiencing issues downloading or installing the product? Have you not received your download link?**

Please contact cesupport@parasoft.com. You can also refer to the [Community Edition FAQ](#) post in our forum.

- **Ready to start using the product?**

Make sure you've reviewed our video introduction and tutorials. These quick [how-to videos](#) will help you get started.



Installatie Parasoft Virtualize CE



Click the link affiliated with your operating system below to download the appropriate copy of Parasoft Virtualize Community Edition:

[Windows 64-bit](#)

[Mac OS X 64-bit](#)

[Linux 64-bit](#)

Please note this link is unique to your registered email and is only valid for 7 days.

Should you have any problems with or questions about downloading the application, please contact cesupport@parasoft.com. You can also refer to the [Community Edition FAQ](#) post in our forum.

Kind regards,
Parasoft Support

blog.parasoft.com

Parasoft: [101 E Huntington Drive, Monrovia, CA 91016](#)

You received this email because you are subscribed to Software Testing News & Info from Parasoft.

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Installatie Parasoft Virtualize CE

Welcome to Parasoft SOAtest & Virtualize

Parasoft Virtualize simulates the behavior of systems that are still evolving, hard to access, or difficult to configure for development or testing.

Parasoft SOAtest automates thorough testing for composite applications with robust support for REST and web services, including over 120 protocols/message types.

Together, SOAtest and Virtualize enable you to lower the cost and accelerate the delivery of better software.

License Configuration

- Parasoft Virtualize - Community Edition
- Parasoft SOAtest & Virtualize - Activate Online Purchase
- Parasoft SOAtest - Professional Desktop Edition
- Parasoft Virtualize - Professional Desktop Edition

Getting Started

How-to Videos

A set of quick videos to help you get started with service virtualization and API testing.

Additional Resources

Forums | Documentation

Installatie Parasoft Virtualize CE

Community License

User Information

Email: ruben.wildeboer@parasoft.com

[Register](#) for Community Edition.

[Compare](#) SOAtest/Virtualize Editions and upgrade options.

AS PART OF RECEIVING A COMMUNITY EDITION LICENSE FOR PARASOFT VIRTUALIZE, PARASOFT MAY RECEIVE AND STORE MY EMAIL ADDRESS AND MAY CONTACT ME IN THE FUTURE.

I agree to the above

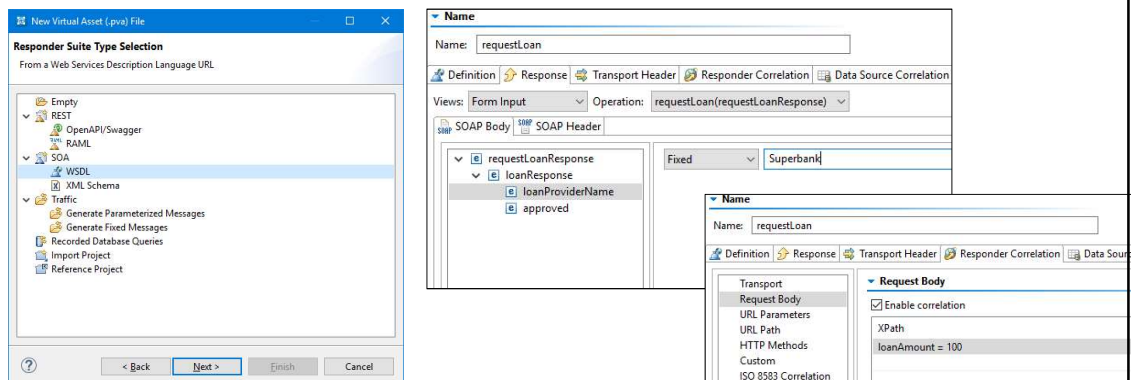
Restore Defaults | Apply

OK | Cancel

Parasoft Virtual Asset: stub met intelligentie

Gebruik Virtualize om het echte back-end te simuleren

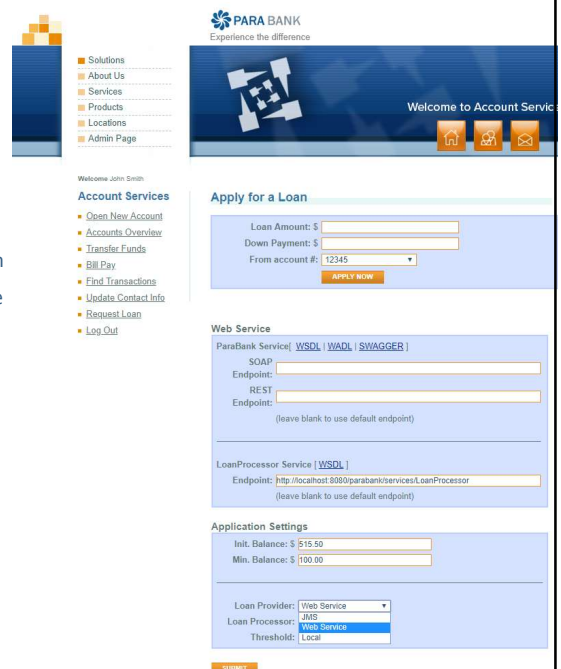
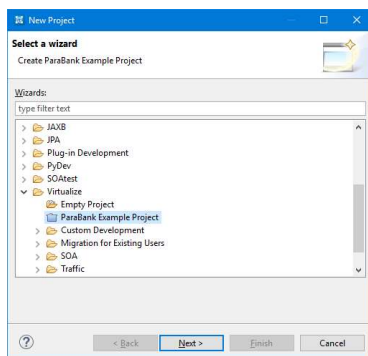
- Genereer simulatoren op basis van service definities, traffic of bouw je eigen responders
- Configureer de responses, gebruik data uit databases, Excel of genereer data on the fly
- Configureer de responders zodat deze alleen antwoorden voor specifieke scenario's

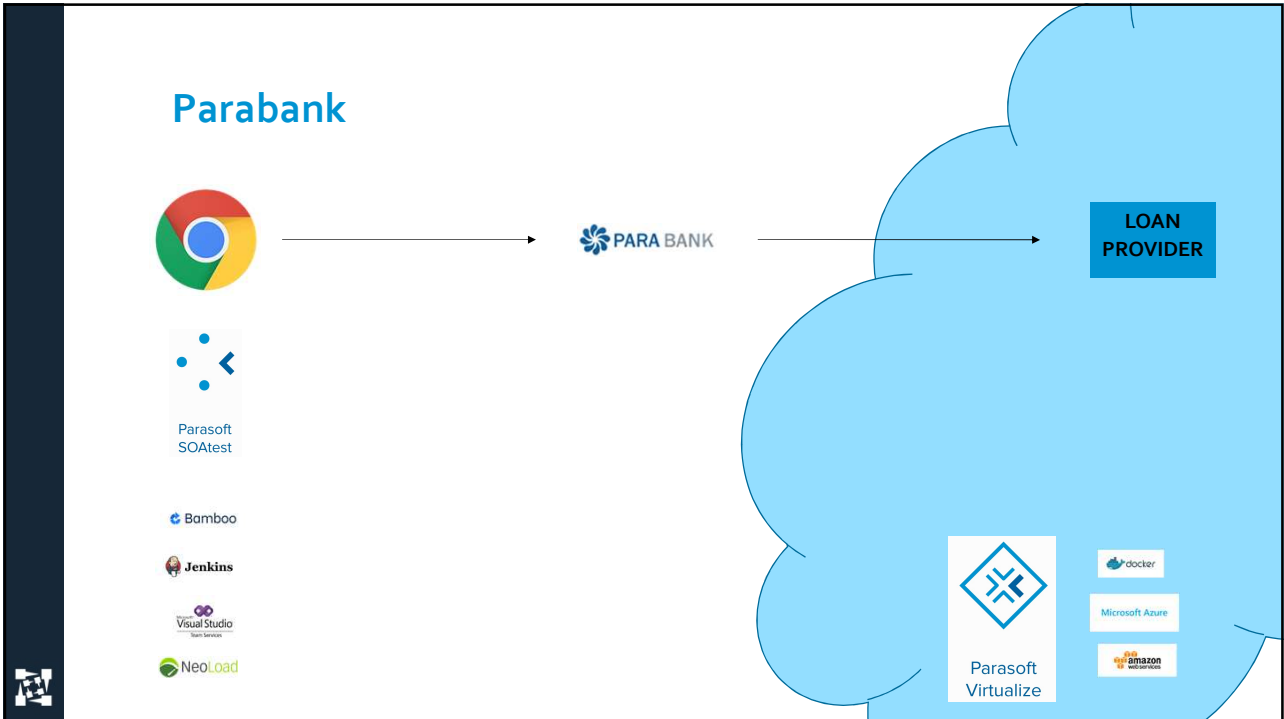


Parabank

Een voorbeeldproject, meegeleverd in Virtualize

- Parabank is ons System Under Test
- Parabank gebruikt een LoanProvider om lenen te verstrekken
- De locatie van de LoanProvider kunnen we configureren in de GUI van Parabank zelf voor zowel SOAP als JMS





Parabank opstarten

The screenshot shows the 'New Project' wizard in an IDE. The 'Wizards' list includes 'Virtualize' and 'Parabank Example Project'. The 'Parabank Example Project' wizard is active, showing 'Project name: Parabank' and 'Use default location' checked. The location is 'C:\Workspaces\T...'. In the background, a browser window displays the Parabank website at 'localhost:8080/parabank/index.htm'. The website features a navigation menu, a 'Customer Login' section with fields for 'Username' and 'Password', and a 'LATEST NEWS' section with a date of '05/14/2018'.

HTTP endpoints creëren

Deployment op basis van HTTP, voor bijvoorbeeld SOAP of REST services

- Drag & Drop de PVA naar de Virtualize Server en configureer direct een endpoint
- Schakel monitoring in

The screenshot shows three windows from the Parosoft Virtualize Server application:

- Virtualize Server:** A tree view on the left showing the hierarchy: Server > Local machine (Admin) > Virtual Assets > LoanProvider.
- LoanProvider - Virtual Asset Deployment Settings:** The main configuration window. Under the 'HTTP' tab, the 'Path' is set to `/parabank/services/LoanProcessor` and the 'HTTP endpoint' is `http://localhost:9080/parabank/services/LoanProcessor`. A note states: "Note: Deployed virtual assets can be accessed (with or without SSL) on any port configured on the Virtualize server. Click here for more details."
- Virtualize Server (Context Menu):** A right-click context menu for the 'LoanProvider' asset, with 'Start Monitoring' highlighted.

Monitor events

Gebruik Parosoft Event Details om inzicht te hebben in het verkeer naar het back-end

- Open het perspective Parosoft Event Details:
 - Ontvangen requests
 - Verzonden responses
 - Doorgestuurde requests en responses door Parosoft Message Proxies
 - Geselecteerde responders
 - Events

The screenshot shows a web application interface for 'PARA BANK' with the tagline 'Experience the difference'. The main content area displays a 'Loan Request Processed' notification:

- Loan Provider: Superbank!
- Date: [blank]
- Status: Approved

Below the notification, it says: "Congratulations, your loan has been approved. Your new account number: 13566".

The screenshot shows the Parosoft Event Log and Details view:

- Event Log:** A table with columns: Summary, Details, Iteration, Timestamp. It shows two entries: 'Request received' and 'Response sent', both for 'LoanProvider: requestLoan, Virtualize server: L...'.
- Details:** A console view showing the raw HTTP and SOAP messages.


```

HTTP/1.1 200 OK
Content-type: text/xml; charset=UTF-8
Content-Length: 518
Date: Fri, 13 Apr 2018 13:24:58 GMT
Server: Parosoft Server

<SOAP-ENV:Envelope
  xmlns:SOAP-ENV="http://schemas.xmlsoap.org/soap/envelope/"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"
  xmlns: xsi="http://www.w3.org/2001/XMLSchema-instance">
  <SOAP-ENV:Body>
    <requestLoanResponse
      xmlns="http://service.parabank.parasoft.com/">
      <loanResponse>
        <loanProviderName
          xmlns="">Superbank! </loanProviderName>
        <approved
          xmlns="">true</approved>
        <message xmlns="">Lemen kost geld!</message>
      </loanResponse>
    </requestLoanResponse>
  </SOAP-ENV:Body>
</SOAP-ENV:Envelope>
      
```


Schakelen tussen simulatie en echte endpoint

Gebruik van Message Proxies

Gebruiker Virtualize Message Proxies om te switchen tussen verschillende gesimuleerde endpoints en het echte endpoint

Incoming and Outgoing Connections

Proxy type: HTTP

Connection: Security Proxy Server

Proxy Settings (incoming)

Listener: Default

Proxy listen path: /parabank/LoanProcessor

Proxy URL: http://localhost:9080/parabank/LoanProcessor

Primary Connection (outgoing)

Service URL: http://parabank.parasoft.com/parabank/services/LoanProcessor

Service host: parabank.parasoft.com

Service port: 80

Service forward path: /parabank/services/LoanProcessor

Secondary Connection (outgoing)

Use secondary connection if primary fails

Service URL:

Service host:

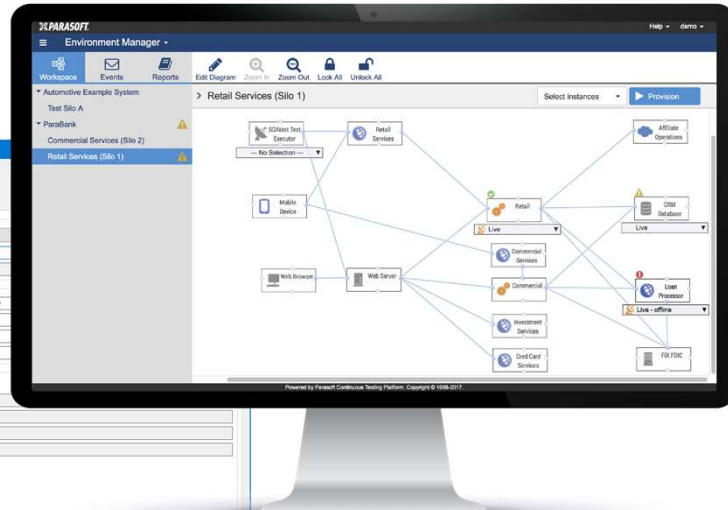
Service port: 80

Service forward path:

Recording options

Record on both connections

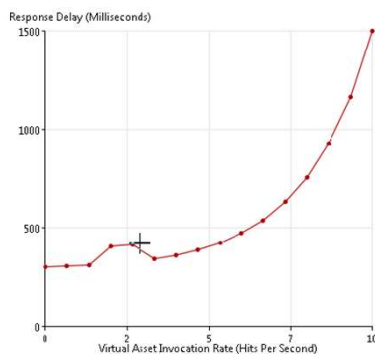
Record on primary connection only



Virtualize gebruiken voor performance- en loadtesten

Simuleer specifieke performance eigenschappen met behulp van performance profielen

- Verhoog de delay naarmate er meer requests per seconde binnenkomen
- Importeer Performance Profiles vanaf Application Performance Management (APM)



Map Performance Profiles to Performance Groups

Group A: Bursts/Spikes

Group B: Steady Load

- Steady Load
- Bursts/Spikes
- Linear Increase
- Exponential Increase
- Large Delay
- Short Delay

Create Graph from Template: [New Graph](#)

Parasoft Virtualize Extensibility Framework

Virtualize uitbreiden met plug-ins van Parasoft, beschikbaar via de Parasoft Marketplace

- <https://marketplace.parasoft.com>
- Download extra bouwblokken, berichtformaten, transportmethodieken en nog veel meer

The screenshot displays the Parasoft Marketplace interface. At the top, there is a search bar and navigation options. Below the search bar, the 'Public Marketplace' section is visible, featuring a grid of tool plug-ins. Each plug-in card includes an icon, a title, a brief description, and tags. The visible plug-ins are:

- Parasoft Burp Suite Extensions**: This package lets you perform security and penetration testing against APIs and browser-based web applications by using SOAtest test scenarios with the Burp Suite web application security.
- Data Learning Tool**: Discovers new behavior captured in traffic files, then updates the data repository so that the associated message responders and test clients simulate the newly-discovered behavior.
- HTTP Simple Mocking Tool 9.9.x**: The Parasoft HTTP Simple Mocking Tool allows a Virtual Asset to learn and replicate the transactions between the application under test and a back-end component. It can be used to record and
- ITriategy Tool**: The ITriategy Tool is a custom extension for Parasoft Virtualize. The ITriategy Tool allows you to modify the configurations of your INE by providing the username, password, and exported configuration
- TestNG**: The TestNG Executor tool enables you to execute TestNG tests in conjunction with the various other types of tests you can run with SOAtest. This enables you to design and execute a single holistic test
- Delphix Extensions**: This package contains four tools -- Delphix Provision tool, Delphix VDB Start tool, Delphix VDB Stop tool and Delphix VDB Delete tool -- that help you set your database to the desired state for your
- MongoDB Query Tool**: The MongoDB Query tool sends a query to a MongoDB database and returns the JSON-format results from that query. JSON tools such as JSON Data Banks and JSON assertions can be added as
- Responder Randomizer**: A custom tool that helps to test edge cases by returning an alternate response or adding a time delay based on a random probability. Documentation is included in the zip archive.
- Dynamic Masking Tool**: A custom tool which provides the ability to perform data masking on sensitive data from a system of record utilizing Virtualize.

The image features the Parasoft logo and the TestNet logo prominently. Below the logos, the following contact information is displayed:

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rix.groenboom@parasoft.com