

# Using APIM with DevTest 9.5

Daniel Mazzei, Associate Engineering Services Architect

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# Agenda

**0. INTRODUCTION TO APIM**

**1. INTRODUCTION TO DEVTEST**

**2. DEVTEST AND APIM, TOGETHER!**

**3. DEMO ARCHITECTURE**

**4. DEMO STEPS**

**5. DEMO TIME!**

# Introduction to APIM

- What is APIM?
  - CA API Management combines advanced functionality for backend integration, mobile optimization, cloud orchestration and developer management
- What is a Gateway?
  - APIM includes the CA API Gateway, which is an XML firewall and service proxy that controls how web services are exposed to, and accessed by, external client applications
- What is a Policy Manager?
  - The Policy Manager is the user interface that connects with the CA API Gateway and lets you construct web service and XML application policies, manage policy users, configure identity bridging, and configure, audit, and monitor the CA API Gateway

# Introduction to DevTest

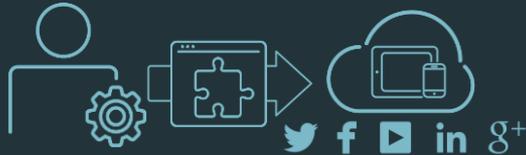
- What is DevTest?
  - DevTest is a suite of fully-integrated development and testing tools that
    - Accelerates software release cycles
    - Increases quality
    - Reduces software testing infrastructure costs
- What is a CA Service Virtualization (SV)?
  - Simulates unavailable systems across the software development lifecycle
- What is a CA Application Test (App Test)?
  - Test harness that can be used for generating functional, regression, user journey and performance tests
- What is CA Continuous Application Insight (CAI)?
  - Provides end-to-end deep transaction tracing and gives visibility into application details and dependencies

# Why Use DevTest with APIM?

- DevTest integration with APIM allows users to configure the APIM policy from DevTest and generate API tests and Virtual Services from APIM
- We do this by capturing the request and response data for APIs that are managed by CA API Gateway (a component of CA API Management).
- You can then use CAI to create baseline tests and virtual services for the APIs.

# Leveraging DevTest Within the API Gateway

## PLAN



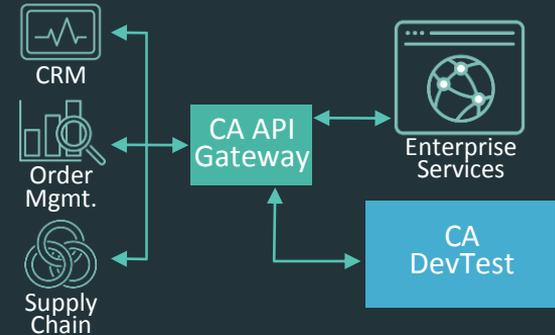
Provide **developers** a **directory** of **virtual services** enabling **better** service **discovery** and **consumption**, **accelerating cloud** and **mobile app development**

## BUILD



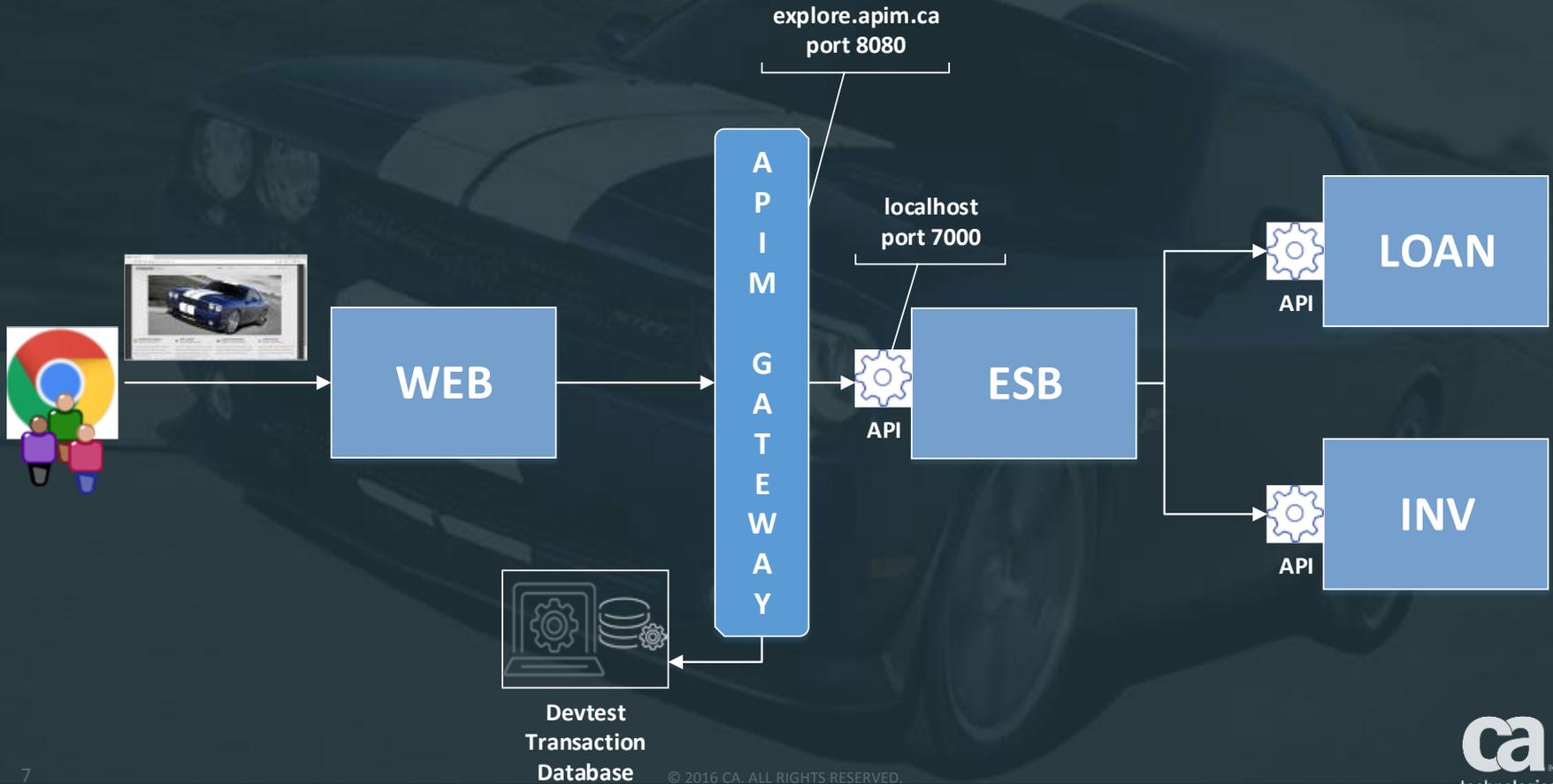
**Automatically switch** between real and virtualized environments **improving** how **cost** and **maintenance** “constraints” are **managed**

## RUN



**Faster creation and easier maintenance** of **virtual services** by leveraging API Management data

# FORWARD CARS Architecture



- Home
- Create
- Manage
- Monitor
- Application Insight
- Reporting
- Settings
- Agents
- Access Control

### Getting Started

- How to record and save a virtual service
- How to edit a virtual service
- How to create a test
- How to monitor a test
- How to manage test artifacts
- How to manage a ticket
- How to work with the shelf
- How to document a transaction for a manual test

### Quick Links

- Create a Virtual Service
- Manage Virtual Services
- Monitor Tests
- Create Tests
- Manage Tests
- Analyze Business Transactions
- Manage Tickets

### Help

- View DevTest Documentation
- Ask the Community
- Report an issue

- Set Password
- Preferences
- The Sandbox
- Download Agent
- APIM Integration
- Logout

### Virtual Services: Current Status

0 Total Transactions	0 Deployed	12 Recorded
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### Test: Current Status (Last 7 Days)

There are no test results currently available.  
What would you like to do?

Create Test    Execute test

### Agents: Current Status

JBoss_LISABank
CarWeb
Broker:PARBY02N35890\$@parby02N35890.ca.com
CarEsb
CarInv
CarLoan

Show More ...

### New Ticket Alerts

There are no ticket alerts currently available

### Path Alerts

There are no path alerts currently available

### Points of Interest

There are no items to view at this time



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- ### Getting Started
- How to record and save a virtual service
  - How to edit a virtual service
  - How to create a test
  - How to monitor a test
  - How to manage test artifacts
  - How to manage a ticket
  - How to work with the shelf
  - How to document a transaction for a manual test



### New Ticket Alerts

There are no ticket alerts currently available

### APIM Integration

Deploy A New Policy | Deployed Policy List

URL: \*  \* = Required Gateway Name: \*

User Name: \*  Password: \*

Dev Test Login: User Name: \*  Password: \*

Options Regular Expression:  Mode:

### APIM Integration

Deploy A New Policy | Deployed Policy List 1

Host	User	Regular Expressio...	Mode	Last Modified	Statu...	Delet...
https://10.151.17.158:8443	admin		<input type="button" value="Record"/> <input type="button" value="Cancel"/>	10/18/2016 10:38:27 AM 046	<input checked="" type="checkbox"/>	<input type="button" value="X"/>



Search

- Policy Assertions
  - Access Control
  - Transport Layer Security (TLS)
  - XML Security
  - Message Validation/Transformation
  - Message Routing
  - Service Availability
  - Logging, Auditing and Alerts
  - Policy Logic
  - Threat Protection
  - Internal Assertions
  - Custom Assertions
  - Policy Templates

Search

- 10.151.17.158
  - Gateway-ServiceVirtualization
  - carsEsb [Inventory\*]
  - EJB3AccountControlBeanService [itko:Examples/EJB3AccountControlBean]
  - EJB3UserControlBeanService [itko:Examples/EJB3UserControlBean]
  - simpleGetDate [simpleGetDate]
  - TokenBeanService [itko:Examples/TokenBean]
  - DevTest Global Variables
  - SimpleServiceVirtualizationRequestHook [pre-service]
  - SimpleServiceVirtualizationRequestHookFragment
  - SimpleServiceVirtualizationResponseHook [post-service]
  - Samples
  - Tutorials
  - Utility

Filter: None  
admin @ 10.151.17.158 [connected to node: Gateway 1]

## CA API Gateway - Policy Manager Home

Please select a task below.

## Tasks

-  Create LDAP Identity Provider
-  Create Simple LDAP Identity Provider
-  Create Federated Identity Provider
-  Create Internal User
-  Create Internal Group
-  Search Identity Provider
-  Publish SOAP Web Service
-  Publish Web API
-  Publish RESTful Service Proxy With WADL
-  Publish Internal Service
-  Publish Reverse Web Proxy
-  Create WSDL



# FORWARDCARS

**Admin**

Inventory Total: 14

Add a Car

Set ESB

### Search

Year, Color...

### Make:

Acura

Audi

BMW

Buick

Infiniti

Land Rover

Lexus

Lincoln

Volvo

**Audi A4-B**



Year: 2011  
Price: \$3995

View Details  
Edit  
Delete

**Acura RLX-AWD**



Year: 2013  
Price: \$30995

View Details  
Edit  
Delete

**Acura RLX-AWD**



Year: 2012  
Price: \$30995

View Details  
Edit  
Delete

**Acura RLX-AWD**



Year: 2010  
Price: \$21405

View Details  
Edit  
Delete

**Audi S4-S**



Year: 2008  
Price: \$7800

View Details  
Edit  
Delete

**BMW 7-Series-P**



Year: 2010  
Price: \$34500

View Details  
Edit  
Delete

- Home
- Create
- Manage
- Monitor
- Application Insight
- Analyze Transactions
- Document Transactions
- Manage Tickets
- Reporting
- Settings
- Agents
- Access Control

Home x Analyze Transactions x

Results: 9 Enter search text or describe the search, e.g. response has lisa\_simpson

Name	Start Time	Wall Time	CPU Time	Agent
<a href="#">/inventory/carInventory/3H1CB51D35L453773</a>	10/18/2016 11:08:29 AM 311	0 ms	0 ms	APIM-10.151.17.158
<a href="#">/inventory/carInventory/3N1CB41D32L458778</a>	10/18/2016 11:08:27 AM 903	0 ms	0 ms	APIM-10.151.17.158
<a href="#">/inventory/carInventory/2T1KR32E37C639015</a>	10/18/2016 11:08:25 AM 180	0 ms	0 ms	APIM-10.151.17.158
<a href="#">/inventory/carInventory/1ZVBP8AM1D5256907</a>	10/18/2016 11:08:21 AM 864	0 ms	0 ms	APIM-10.151.17.158
<a href="#">/inventory/carInventory/3N1CB51D35L458771</a>	10/18/2016 11:08:01 AM 060	0 ms	0 ms	APIM-10.151.17.158
<a href="#">/inventory/carInventory/1ZVBP8AM1D5256906</a>	10/18/2016 11:07:47 AM 519	0 ms	0 ms	APIM-10.151.17.158
<a href="#">/inventory/carInventory/3N1CB51D35L458773</a>	10/18/2016 11:07:22 AM 127	0 ms	0 ms	APIM-10.151.17.158
<a href="#">/portalman/1/apis</a>	10/18/2016 11:05:02 AM 286	0 ms	0 ms	APIM-10.151.17.158
<a href="#">/portalman/1/apis</a>	10/18/2016 11:00:02 AM 457	0 ms	0 ms	APIM-10.151.17.158



### /inventory/carInventory/3H1CB51D35I453773

Start Time: 10/18/2016 11:08:29 AM 311

Wall Time: 0ms

Transaction ID: be6f9fc0-9544-11e6-849b-0050569c1695

Usage Count:  Enable



Frame Request Response Log Messages XML Exception Request Headers Response Headers

#### Frame Meta Values

Frame Meta	Value
Name	/inventory/carInventory/3H1CB51D35I453773
Tags	Not Available
Category	REST Http
Start Time	10/18/2016 11:08:29 AM 311
Wall Time	0
ID	be6f9fc0-9544-11e6-849b-0050569c1695
Parent ID	Not Available

#### Location Values

Location	Value
Host	10.151.17.158
Local IP	10.151.17.158
Remote IP	10.130.175.103
Agent	APIM-10.151.17.158
Thread	Not Available
Method	void null,null()

#### Shelf: 1 items

REST Http

/inventory/carInventory/3H1CB51D35I453773 StartTime: 10/18/2016 11:08:29 AM 311

Shelved: All Occurred Transactions Virtual Service: Stateless, Stateless Baseline: Stateless, Data-driven, Deparaded Data Set: LDS, RR Pair Agent: APIM-10.151.17.158

Time	CPU Time	Agent
0 ms	0 ms	APIM-10.151.17.158
0 ms	0 ms	APIM-10.151.17.158
0 ms	0 ms	APIM-10.151.17.158
0 ms	0 ms	APIM-10.151.17.158
0 ms	0 ms	APIM-10.151.17.158
0 ms	0 ms	APIM-10.151.17.158
0 ms	0 ms	APIM-10.151.17.158
0 ms	0 ms	APIM-10.151.17.158
0 ms	0 ms	APIM-10.151.17.158
0 ms	0 ms	APIM-10.151.17.158
0 ms	0 ms	APIM-10.151.17.158
0 ms	0 ms	APIM-10.151.17.158



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## Daniel Mazzei

Engineering Services Architect

Daniel.Mazzei@ca.com



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