



CA Service Virtualization: Upgrading to DevTest 10.3

April 2018



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Agenda

1 WHY UPGRADE CA SERVICE VIRTUALIZATION?

2 UPGRADING: TIPS AND TRICKS

3 RESOURCES

4 Q&A

Why Upgrade?

CA Service Virtualization Versions

Version End of Service Date	
v8.1-v8.4	1-Jul-2017
v8.5-v9.0	15-Oct-2017
v9.1	1-Feb-2018
v9.5 & v9.5.1	20-Jul-2018
v10.0	21-Dec-2018
v10.1	18-Apr- 2019
v10.2	28- Feb -2020
v10.3	—

Why Upgrade to v10.3?

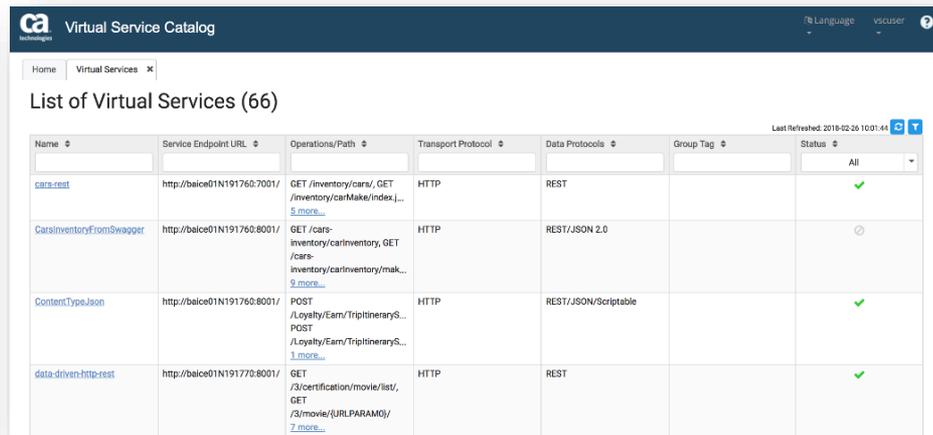
- Access to support experts
- Faster issue resolution when issue is reported

DevTest 10.3 Major Features/Enhancements

- Introduction to the Virtual Service Catalog
- Improvements to Enterprise Dashboard reporting
- Improvements to Embedded ROI Calculator
- Enhanced API functionality regarding test execution and reporting
- MQ 9 protocol support
- Support proxy servers when recording virtual services through gateway mode
- Engineering Excellence
- **Laying the foundation for the Road Ahead**

CA Service Virtualization **What's new in 10.3**

- **Virtual Service Catalog**
 - A central repository for viewing and sharing virtual services
 - Separate installer
 - Single dashboard



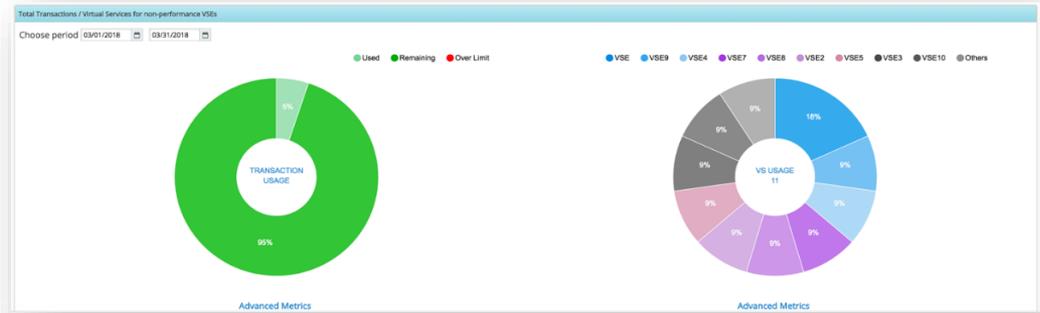
The screenshot displays the CA Virtual Service Catalog interface. At the top, there's a navigation bar with the CA logo, the title 'Virtual Service Catalog', and user information 'Language' and 'vscuser'. Below the navigation bar, there's a breadcrumb trail 'Home > Virtual Services' and a title 'List of Virtual Services (66)'. A refresh button and a timestamp 'Last Refreshed 2016-02-26 10:01:44' are also visible. The main content is a table with the following columns: Name, Service Endpoint URL, Operations/Path, Transport Protocol, Data Protocols, Group Tag, and Status. The table contains four rows of service entries.

Name	Service Endpoint URL	Operations/Path	Transport Protocol	Data Protocols	Group Tag	Status
cars-rest	http://baice01N191760:7001/	GET /inventory/cars/, GET /inventory/carMake/index.j... 9 more...	HTTP	REST		✓
CarsInventoryFromSwagger	http://baice01N191760:8001/	GET /cars-inventory/carInventory, GET /cars-inventory/carInventory/mak... 9 more...	HTTP	REST/JSON 2.0		⊗
ContentTypesJson	http://baice01N191760:8001/	POST /Loyalty/Earn/TripItineraryS... POST /Loyalty/Earn/TripItineraryS... 1 more...	HTTP	REST/JSON/Scriptable		✓
data-driven-http-rest	http://baice01N191770:8001/	GET /3/certification/movie/list/, GET /3/movie/{URLPARAM0}/ 7 more...	HTTP	REST		✓

CA Service Virtualization **What's new in 10.3**

- **Enterprise Dashboard Update:**

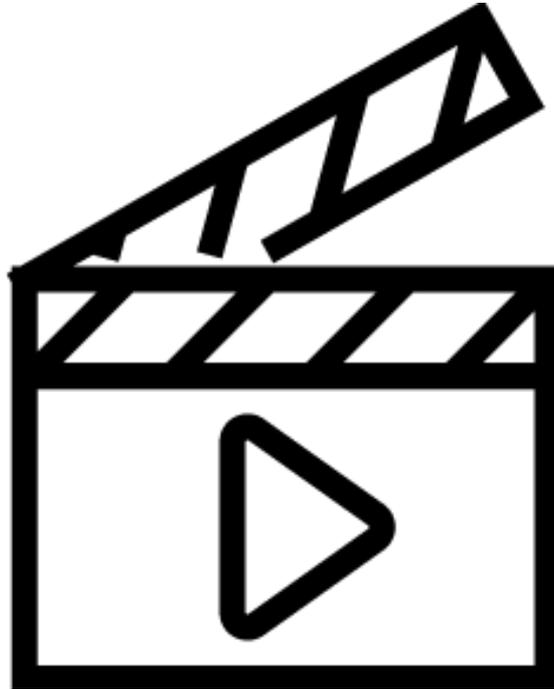
- View more granular transaction data
- View transactions by specific VSE or virtual service



VSE Name	# of Virtual Services	Transaction Count (Selected Period)	Transaction Count (Daily Average)	Host Name	Port
VSE	2	365	11	balan06n207480.ca.com	2013
VSE9	1	5	0	balan06n209350.ca.com	9009
VSE4	1	281	9	balan06n209350.ca.com	9004
VSE7	1	5	0	balan06n209350.ca.com	9007
VSE8	1	5	0	balan06n209350.ca.com	9008
VSE2	1	338	10	balan06n207480.ca.com	9000
VSE5	1	155	5	balan06n209350.ca.com	9005
VSE3	1	324	10	balan06n207480.ca.com	9001
VSE10	1	91	2	balan06n209350.ca.com	9010
VSE6	1	5	0	balan06n209350.ca.com	9006

Page 1 of 1 | 25 items per page | Displaying 1 - 10 of 10

Feature Demo!



Access New CA Service Virtualization Features

- **Enhance API functionality** regarding test execution and reporting
- **MQ 9 Support**
- **Support Proxy servers when recording virtual services through gateway mode**

New CA Service Virtualization Offerings

- **CodeSV** fluent, Java-based interface (API) that allows developers to code the behavior of an endpoint – essentially allowing you to virtualize HTTP traffic in just a few minutes
 - <http://codesv.io/>
- **CA Service Virtualization Community Edition** simple webservice virtual service creation
 - <https://www.ca.com/us/trials/ca-service-virtualization-community-edition.html>

CodeSV

```
> @Rule
> public VirtualServerRule vs = new VirtualServerRule();
>
> @Test
> public void
testSimpleHttpGetWithResponseCodeAndStringBody() throws
IOException {
>     forGet(URL).doReturn(
>         aMessage(CUSTOM_STATUS_CODE)
>             .withStringBody(RESPONSE_BODY_GET)
>     );
>
>     HttpGet httpGet = new HttpGet(URL);
>     HttpClient httpClient =
HttpClientBuilder.create().build();
>     HttpResponse httpResponse = httpClient.execute(httpGet);
>
>     assertEquals(CUSTOM_STATUS_CODE,
httpResponse.getStatusLine().getStatusCode());
```

CA Service Virtualization CE – Look and Feel

The screenshot displays the CA Service Virtualization CE interface for 'SVCE-Enablement-2'. The main window is titled 'Recorder' and shows an HTTP Transport recording session. The interface is divided into several sections:

- API EXPLORER:** Lists various transaction bundles and virtual services. The 'LisaBank-Recording' bundle is selected.
- Transaction Bundle Editor:** Shows the details of a selected transaction bundle, including the method (POST), URL, content type, and request/response bodies.
- Recorder:** Shows the recording process in progress. It includes a diagram of the recording flow: CLIENT (represented by a computer icon) connects to a GATEWAY RECORDER (represented by two circles), which then connects to a TARGET SERVER (represented by a server rack icon). Below the diagram, the client URL is 'http://localhost:8000' and the target server URL is 'http://localhost:8080'. A 'Start Recorder' button is visible.
- Request/Response:** The request body is a SOAP message for a 'getToken' operation. The response body is a SOAP message for a 'getTokenResponse' operation.

```
Request Body (438 bytes) Headers (8) Raw
<?xml version="1.0" encoding="UTF-8"?>
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" xmlns:xsd="http://www.w3.org/2001/XMLSchema" x
  <soapenv:Body>
    <getToken xmlns="http://ejb3.examples.itko.com/">
      <username xmlns="">rickbansal</username>
      <password xmlns="">password</password>
    </getToken>
  </soapenv:Body>
</soapenv:Envelope>

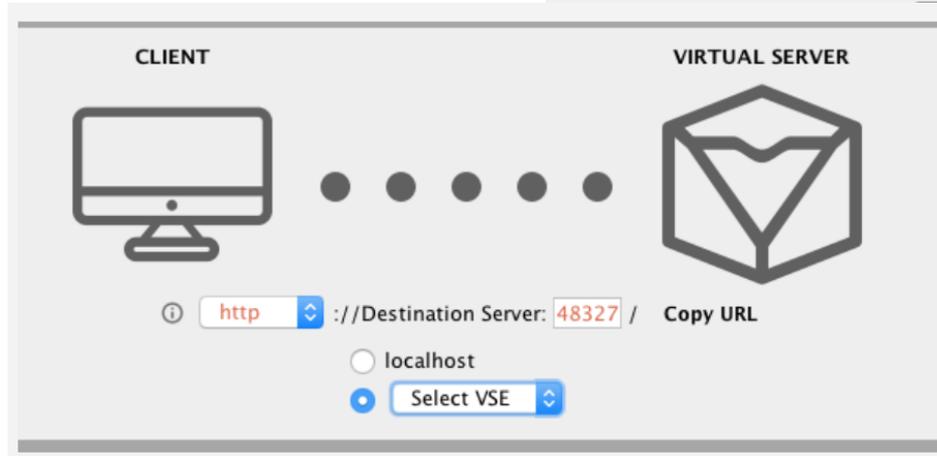
Response Body (322 bytes) Headers (5) Raw
<?xml version="1.0" encoding="UTF-8"?>
<env:Envelope xmlns:env="http://schemas.xmlsoap.org/soap/envelope/">
  <env:Header />
  <env:Body>
    <ns2:getNewTokenResponse xmlns:ns2="http://ejb3.examples.itko.com/">
      <return>205acd09:15f26b84d2c:-7ff6</return>
    </ns2:getNewTokenResponse>
  </env:Body>
</env:Envelope>
```

CA Service Virtualization CE

 **Connect to CA Service Virtualization**

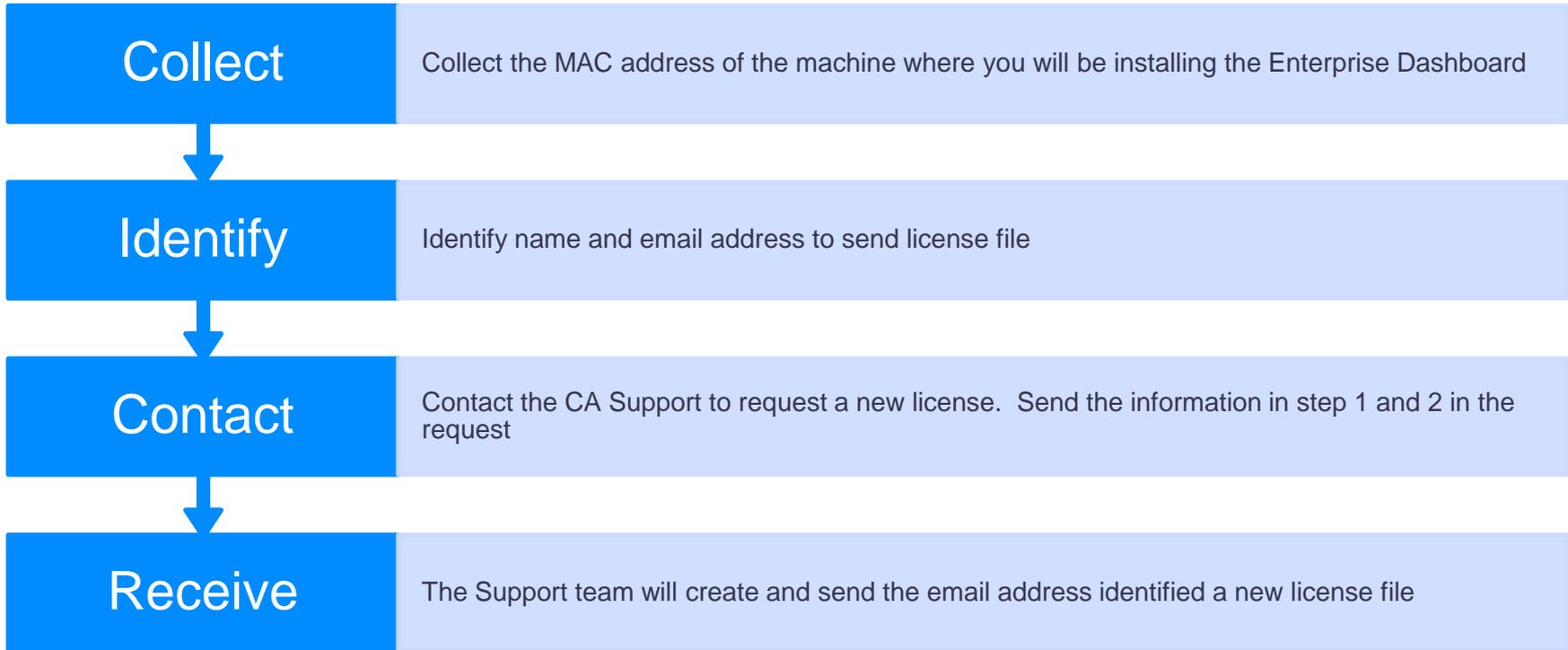
Registry: ▾

Username: Password:



Tips & Tricks

Required for 10.3: Request a New License File



Preparing for a CA Service Virtualization Upgrade!

Back-up Environment

- Assets
- The DevTest Directory
- Registry Database
- Enterprise Dashboard Database*

* For 7.5.x you must uninstall the Enterprise Dashboard

Prepare Database Migration

- Ensure configuration registry and enterprise has full DBA privileges

Know IT Environment

- Hostname, IP addresses, SSL Certificates, LDAP Configuration, DB configuration

Best Practices

- Upgrade a **Sandbox** Environment
 - Low risk
 - Validate that upgrade process is smooth
 - Validate that virtual services and tests work as expected
 - Familiarize yourself with new features
- **Two ways** to upgrade to the latest version
 - In-Place
 - New Location

Steps to Upgrading

1. Download Installer. Request a new license key
2. Shut Down Services and Applications
3. Run Installer
4. Configure Property Files
 - local.properties
 - site.properties
 - dradis.properties
 - vmoptions
5. Clear Browser Cache
6. For v8.x and above, ACL is mandatory.
Review [Access Control](#) feature.
7. Remote components: upgrade 1 by 1
8. Start DevTest Services:
 - Enterprise Dashboard, Registry, Portal, VSE, Coordinator, Simulator



Post installation



- Verify Enterprise Dashboard Connectivity
- Verify Registry Connectivity
- Verify Component Status
- Verify Portal Connectivity
- Verify Workstation Connectivity
- Deploy Virtual Service
- Verify Deployed Virtual Service
- Start Test Case
- Verify Test results

Resources



Release Comparison for CA Service Virtualization

Visit:

https://docops.ca.com/dts_release_comparison

Documentation

Preparing Your DevTest Upgrade

Last update November 28, 2017

- Prepare Materials**
 - Review new features and changes to DevTest
 - Ensure you have a DevTest license
 - Download DevTest Installer
- Know IT Environment**
 - Host name, IP addresses, SSL Certificates, LDAP configuration, database configuration
 - Review DevTest System Requirements
- Back Up Environment**
 - Assets (Example: your test cases and virtual services are in a source control repository)
- Prepare Database Migration**
 - Ensure configuration files for registry and Enterprise Dashboard have full DBA privileges

- Preparing Your DevTest Upgrade**
- Upgrade DevTest
- After You Upgrade
- Additional Upgrade Details

- + Migrating the SDK
- + Getting Started
- + Using
- Agents
 - + DevTest Java Agent
 - + DevTest CICS Agent
 - + DevTest LPAR Agent
 - + DevTest Mainframe Bridge
- + Administering
- + Reference

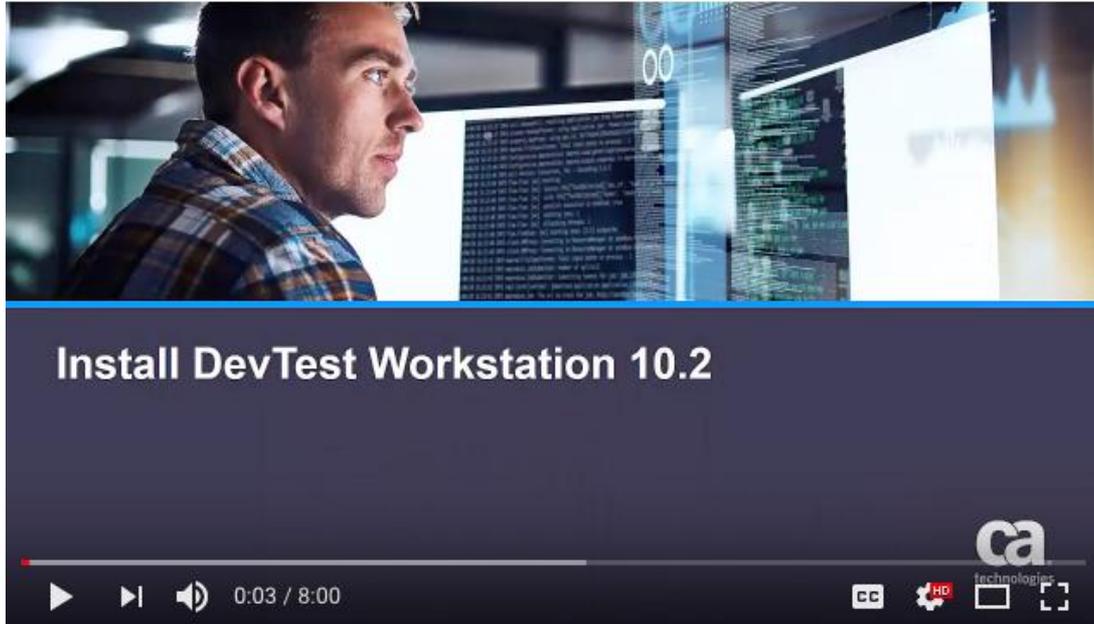
<https://docops.ca.com/devtest-solutions/10-3/en/installing/preparing-your-devtest-upgrade>

Community Upgrade Center

<http://cainc.to/SVUpgradeCntr>

Why Upgrade	Ready to Upgrade	After You Upgrade
<p>Learn about top new features in DevTest 10.1.</p> <p>Latest Release Information</p> <ul style="list-style-type: none">• DocOps: What's new with DevTest 10.1 🔗• DocOps: Release Notes DevTest 10.1 🔗• 📄 Blog: DevTest 10.1 is Generally Available (GA)• 📄 Blog: DevTest Server Console has Retired• DevTest Solutions Release and Support Lifecycle Dates 🔗 (GA and EOS Information, Support Login required)• Demo DevTest Portal: Create Virtual Services from RR Pairs 🔗• Demo DevTest Portal: How to modify a Virtual Service after recording 🔗• Demo DevTest Portal: Using the CICS virtual service recording feature 🔗• Demo DevTest Portal: Using CICS Copybook payload mapping 🔗 <p>Integration Opportunities</p> <ul style="list-style-type: none">• Demo of the End-to-End, Integrated CA Continuous Delivery Ecosystem 🔗• Demo of CA Application Test and CA Agile Central Integration 🔗• Demo of CA Service Virtualization and CA APIM 🔗	<p>Advice and best practices for an effective and seamless upgrade.</p> <p>Must-Read DocOps Before You Upgrade</p> <ul style="list-style-type: none">• System Requirements for DevTest 10.1 🔗• Reactivate a Registry or Enterprise Dashboard 🔗 Maintain Registries 🔗 <p>Upgrade Best Practices</p> <ul style="list-style-type: none">• Guide: 📄 How To - Upgrade DevTest 8.x To DevTest 10.1• 📄 How To - Create VS using Swagger Specs• 📄 Blog: DevTest Architecture Best Practice - Overview <p>Training and Support</p> <ul style="list-style-type: none">• OnDemand DevTest Solutions 10.0: Installation and Configuration 200 🔗	<p>Useful resources for after you've upgraded.</p> <p>Must-Read DocOps</p> <ul style="list-style-type: none">• After you upgraded 🔗• Reactivate a Registry or Enterprise Dashboard 🔗• Maintain Registries 🔗• Logging 🔗 <p>Get the Most Out of DevTest Solutions</p> <ul style="list-style-type: none">• 📄 Tech Tips: Best Practices Installing and Verifying DevTest Out of the Box <p>Are You Experiencing Issues or Need Help Troubleshooting?</p> <ul style="list-style-type: none">• 📄 After upgrading DevTest to versions 9.x/10.x got error 503 <p>Need Additional Help?</p> <p>Please search the 🔍 DevTest Communities for your topic. If it is not listed, post a question to receive support from the DevTest community.</p> <p>If you seek further assistance, click here for CA Support 🔗.</p>

Install & Configuration Videos



Home Videos **Playlists** Channels Discussion About

DevTest Solutions 10.0 Installation
Educate • 14 videos • 197 views • Last updated on Mar 30, 21

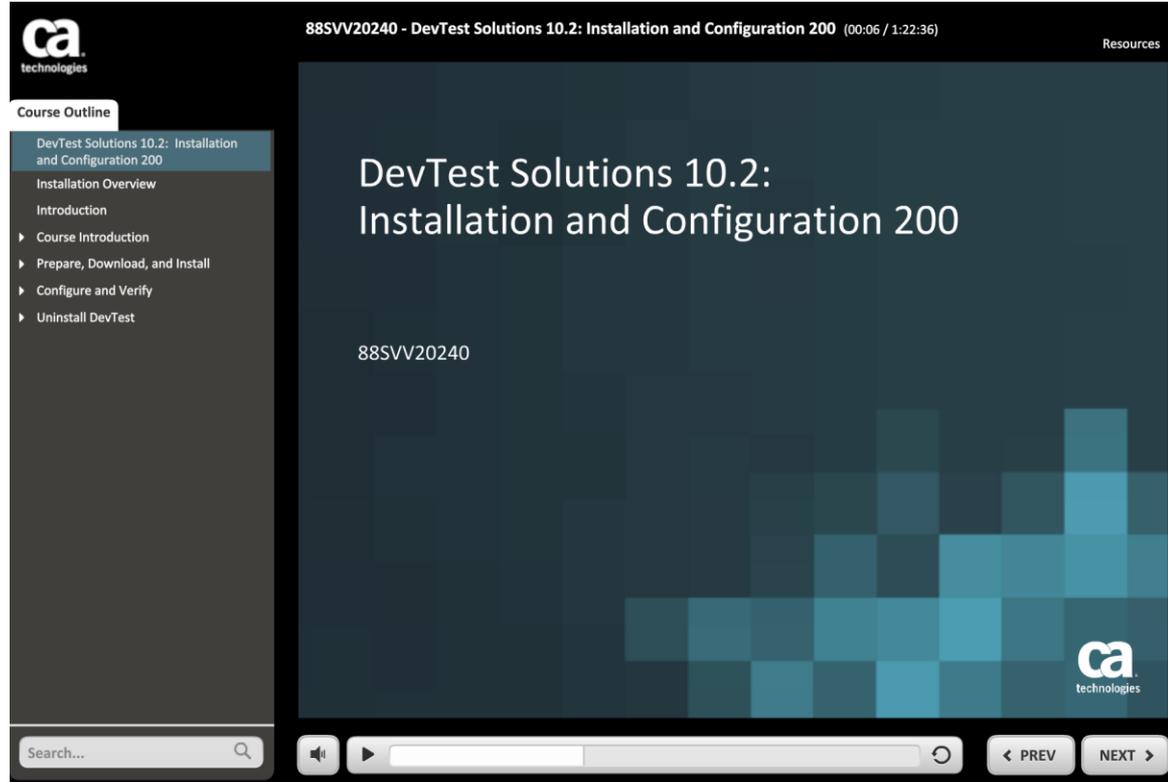
▶ Play all ◀ Share + Save

- 1 **Identifying Prerequisites for DevTest Solutions 10.0**
by Educate
- 2 **Downloading Installation Files for DevTest Solutions 10.0**
by Educate
- 3 **Running the Linux Installer Files for DevTest Solutions 10.0**
by Educate

https://www.youtube.com/watch?v=F3nh_DyvlMs&feature=youtu.be

<http://cainc.to/EDqrPC>

Education Course



The screenshot shows a video player interface for a course. The top left corner features the 'ca technologies' logo. The top right corner displays the course ID '88SVV20240 - DevTest Solutions 10.2: Installation and Configuration 200' and a timestamp '(00:06 / 1:22:36)'. A 'Resources' link is also visible in the top right. On the left side, there is a 'Course Outline' menu with the following items: 'DevTest Solutions 10.2: Installation and Configuration 200' (highlighted), 'Installation Overview', 'Introduction', '▶ Course Introduction', '▶ Prepare, Download, and Install', '▶ Configure and Verify', and '▶ Uninstall DevTest'. The main video area shows the title 'DevTest Solutions 10.2: Installation and Configuration 200' and the course ID '88SVV20240'. The bottom of the player includes a search bar, a volume icon, a play button, a progress bar, a refresh icon, and 'PREV' and 'NEXT' navigation buttons. The 'ca technologies' logo is also present in the bottom right corner of the video area.

Course: 88SVV20240 – Devtest Solutions 10.2: Installation and Configuration 200

<https://www.ca.com/us/education-training.html>



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Still need help?



1. Contact CA Support for help
2. Contact your Account Rep
3. Contact Presenters

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Beverly Mindle:

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Discussed

- Learn about the new features are available in CA Service Virtualization 10.3
- Be able to prepare for an upgrade, perform an upgrade, and verify the upgrade
- Be able to utilize CA Service Virtualization support and upgrade resources

Questions?





Thank You.