## DevTest Hardware Requirements

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Component | CPU Cores (>=2ghz) | Free Ram (GB) | Operating System | Disk required (GB) |
| **DEVTEST Workstation** | 2 | 2 | Windows Server 2003/2008/2012, Windows XP/Vista/7/ 8, Fedora 8 and up, Red Hat Enterprise Linux 6.3 and up, Solaris 10/11, SUSE Linux, Ubuntu 9 and up, OS X 10.8, AIX 6.1 | 2 |
| **DEVTEST VSE Server for Performance** *DEVTEST Registry, VSE* | 1\* | 2\* | Windows Server 2003/2008/2012, Windows XP/Vista/7/ 8, Fedora 8 and up, Red Hat Enterprise Linux 6.3 and up, Solaris 10/11, SUSE Linux, Ubuntu 9 and up, OS X 10.8, AIX 6.1 | 5 |
| **DEVTEST Functional VSE Server DEVTEST Registry, VSE** | 1\* | 2\* | Windows Server 2003/2008/2012, Windows XP/Vista/7/ 8, Fedora 8 and up, Red Hat Enterprise Linux 6.3 and up, Solaris 10/11, SUSE Linux, Ubuntu 9 and up, OS X 10.8, AIX 6.1 | 5 |
| **DEVTEST Registry** | 8 | 4 | Windows Server 2003/2008/2012, Windows XP/Vista/7/ 8, Fedora 8 and up, Red Hat Enterprise Linux 6.3 and up, Solaris 10/11, SUSE Linux, Ubuntu 9 and up, OS X 10.8, AIX 6.1 | 20\* |
| **Database** | 4 | 8 | IBM DB2, MySQL, Oracle, Microsoft SQL Server | 20\* |

## DevTest Software Requirements

* **DevTest Server JVM System Requirements**
  + The minimum supported Java version for DevTest Workstation, DevTest Server, and VSE is Java 8
* **Java JDK**
  + Products composing the DevTest Solutions are Java applications. An Oracle JRE is included with each operating system-specific installer
  + The minimum supported Java version for DevTest Workstation, DevTest Server, and VSE is Java 1.8 update 60
  + This requirement is a DevTest-side requirement only. DevTest running in a Java 1.8 virtual machine (VM) can be used to test applications on application servers running older or newer JREs
  + The following table lists the support that is provided for various JDKs:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | **DevTest Workstation** | **DevTest Server - Coordinator, Simulator, Registry** | **DevTest Server - VSE** | **DevTest Java Agent (CAI)** |
| **JDK 1.5** | Not supported | Not supported | Not supported | Supported |
| **JDK 1.6** | Not supported | Not supported | Not supported | Supported |
| **JDK 1.7** | Required for run time | Required for run time | Required for runtime | Supported |
| **JDK 1.8** | Required for run time | Required for run time | Required for run time | Supported (WildFly 8.2 only) |

Use Case 1: (For SV POC)

***Business Scenario:***   PPWS ( Testing Application or Web service) is  Passing details ( eg. ALK Key, CLI and Address) interacting with third party application CVF and then pass the request to Openreach  via Request XLML. Order is getting progress if get ‘Success’ response from CVF  - Open reach on the validation of  address, CLI and Alk Key.

***Problem:***  Only oneenvironment ( eg. Jupitor, Neptune, Mercury) can access CVF at a time as one instance available for CVF to connect with Openreach. We need to point Services to CVF-Openreach or LLU Stack to CVF.

***Solution:***   Virtualize the calls between Openreach - CVFandPPWS . So, PPWS will interact with virtualserverovervirtualservices instead of CVF - Openrach application. Once PPWSreceive expected response from virtual service then  PPWS will perform order processing activities. We can virtualize some popular  scenarios for POC.

What are the Services

Sample RR pairs for the services

Brief functionality of the services

Order of the services to be called

## **DevTest Server Default Port Numbers**

The following table lists the default port numbers that various components in DevTest Server use. The table also includes the property that sets each port number.

|  |  |  |
| --- | --- | --- |
| **Port** | **DevTest Component** | **Property** |
| 1505 | Embedded web server | lisa.webserver.port |
| 1506 | Enterprise Dashboard (embedded web server) | dradis.webserver.port |
| 1507 | DevTest Portal | devtest.port |
| 1508 | Broker (embedded web server) | broker.webserver.port |
| 1528 | Derby database | lisadb.internal.port, lisadb.pool.common.url |
| 1529 | Demo server | Not applicable |
| 1530 | Enterprise Dashboard Derby database port | dradisdb.internal.port |
| 2003 | Enterprise Dashboard network port | lisa.net.15.port |
| 2004 | VSE Manager network port | lisa.net.9.port |
| 2005 | Test Runner network port | lisa.net.5.port |
| 2006 | ServiceManager network port | lisa.net.11.port |
| 2008 | Workstation network port | lisa.net.0.port |
| 2009 | Broker network port | lisa.pathfinder.broker.port |
| 2010 | Registry network port | lisa.net.3.port |
| 2011 | Coordinator network port | lisa.net.2.port |
| 2012 | JUnit exec network port | lisa.net.4.port |
| 2013 | VSE network port | lisa.net.8.port |
| 2014 | Simulator network port | lisa.net.1.port |
| 2999 | JDBC simulation driver | Not applicable |
| 3128 | HTTP proxy | laf.httpproxy.port |
| 3997 | LPAR agent | lisa.mainframe.bridge.server.port |
| 61617 | LPAR agent | lisa.mainframe.bridge.port |

If more than one simulator is created on the same computer, the port numbers for the new simulators are increased from 2014. For example, three more simulators would have the port numbers 2015, 2016, and 2017.

Typically, there is one coordinator for each lab. However, if you create more coordinators, then you define the port on the command line. For example:

CoordinatorServer --name=tcp://hostname:2468/Coordinator2

The **lisa.properties** file defines most of the default port numbers.

If you want to change one or more port numbers after installation, add the property to the **local.properties** file and set the new value. Do not update the **lisa.properties** file.

The only time **site.properties** must be updated because of a port update is when the Enterprise Dashboard port changes. In itself, that is configured in **local.properties** like everything else. However, the registries must be configured to talk to the Enterprise Dashboard through **devtest.enterprisedashboard.host** and **devtest.enterprisedashboard.port**, which should be set in **site.properties**.

You can change the port number for the JDBC simulation driver by editing the **Virtual JDBC Listener** step in DevTest Workstation.

## **DevTest Workstation Default Port Numbers**

The default port numbers in a DevTest Workstation installation are a subset of the default port numbers in DevTest Server.

|  |  |  |
| --- | --- | --- |
| **Port** | **DevTest Component** | **Property** |
| 1505 | Embedded web server | lisa.webserver.port |
| 2004 | VSE Manager | lisa.net.9.port |
| 2005 | Test Runner | lisa.net.5.port |
| 2006 | ServiceManager | lisa.net.11.port |
| 2009 | Broker | lisa.pathfinder.broker.port |
| 2999 | JDBC simulation driver | Not applicable |
| 3128 | HTTP proxy | laf.httpproxy.port |

## **Demo Server Default Port Numbers**

The following table lists the default port numbers that the demo server uses.

|  |  |
| --- | --- |
| **Port** | **DevTest Component** |
| 1098 | JNDI |
| 1099 | JNDI |
| 1528 | Derby database |
| 8080 | HTTP |