Information Engineering Technology

Technical Requirements

IET DevOps Suite

Release 8.8
(Updated 01/09/2023)

The IET DevOps Suite products (GuardIEn, genIE, Object List+, VerifIEr, and pathvIEw) are client/server applications. To operate the products the client software is installed on the user's workstation for the Windows and Eclipse clients and on an application server for the web clients. The server software is installed on the same platform as the Gen encyclopaedia.

Server – Windows CSE

Operating System	Windows Server 2008 or higher
Gen	CA Gen 8.0 client/server encyclopaedia or higher
Database	- Oracle database server supported by 19c SQL*Net client, for example 11g, 12c, 18c or 19c - Oracle 19c SQL*Net client 64bit or - SQL Server 2008, 2012, 2014, 2016, 2017 or 2019
Client/Server Communications	The server software is a Gen 8.6 generated client/server application, which uses Gen middleware for client to server communications. Supported middleware options are: Gen 8.6 64-bit Transaction Enabler For further details consult the Gen Middleware documentation.
Disk Space	GuardIEn Software: 350Mb GuardIEn Database: 150Mb
Other	Visual Studio 2019 compiler required to amend the exits

Server – UNIX AIX CSE

Operating System	AIX 7.1 TL1 64bit or higher
Gen	CA Gen 8.0 client/server encyclopaedia or higher
Database	- Oracle database server supported by 19c SQL*Net client, for example 11g, 12c, 18c or 19c - Oracle 19c SQL*Net client – 64 bit
Client/Server Communications	The server software is a Gen 8.6 generated client/server application, which uses Gen middleware for client to server communications. Supported middleware options are: Gen 8.6 Transaction Enabler For further details consult the Gen Middleware documentation.
Disk Space	GuardIEn Software: 350 Mb GuardIEn Database: 150 Mb
Other	XL C/C++ Enterprise Edition for AIX v12.1 (for server exit changes) ICU 55.1 for AIX in LIBPATH openSSL 1.1 for the GuardIEn Remote Processing Daemon

Server – Linux CSE

Operating System	RedHat Enterprise Linux 64bit 8.8 or higher (kernel 4.18.0-477.13.1.el8_8.x86_64)
Gen	CA Gen 8.6 client/server encyclopaedia
Database	- Oracle database server supported by 19c SQL*Net client, for example 12c, 18c or 19c - Oracle 19c SQL*Net client – 64 bit
Client/Server Communications	The server software is a Gen 8.6 generated client/server application, which uses Gen middleware for client to server communications. Supported middleware options are: Gen 8.6 Transaction Enabler For further details consult the Gen Middleware documentation.
Disk Space	GuardIEn Software: 350 Mb GuardIEn Database: 150 Mb
Other	Gnu gcc compiler 8.5.0 or newer (for server exit changes) ICU (as part of operating system) openSSL 1.1 for the GuardIEn Remote Processing Daemon

Server – UNIX HP-UX Integrity CSE

Operating System	HP-UX 11.31 or higher
Gen	CA Gen 8.0 client/server encyclopaedia or higher
Database	- Oracle database server supported by 19c SQL*Net client, for example 11g, 12c, 18c or 19c - Oracle 19c SQL*Net client – 64 bit
Client/Server Communications	The server software is a Gen 8.6 generated client/server application, which uses Gen middleware for client to server communications. Supported middleware options are: Gen Transaction Enabler For further details consult the Gen Middleware documentation.
Disk Space	GuardIEn Software: 500 Mb GuardIEn Database: 150 Mb
Other	HP C/aC++ Developer's Bundle C.11.31.04.2 (for exit changes) ICU 52 for HP-UX in SHLIB_PATH

Server – HE for z/OS

Operating System	z/OS V2R2, V2R3, V2R4 IBM zEnterprise z13/z13s, z14/z14R1, z15
Gen	CA Gen 8.0 host encyclopaedia or higher. Note that GuardIEn 8.7 is a Gen 8.6 developed application so, in order to execute successfully in the chosen platform (CICS or IMS), the runtime environment will have to be upgraded to the Gen 8.6 level as a pre-requisite, including the communications middleware (see below).
Other Utilities	TSO/E ISPF IBM Enterprise COBOL for z/OS V4R2, V5R1, V5R2, V6R1, V6R2, V6R3 Language Runtime Environment V2R2, V2R3, V2R4 Note that GuardIEn 8.7 has been compiled using IBM Enterprise COBOL for z/OS V6R2 so you must have LE runtime support for this COBOL release also in place.
Database	DB2 V11 or V12 for z/OS Sufficient authority to create DB2 secondary authids, packages, plans, databases, tablespaces, tables, views, indexspaces, indices and perform plan and package binds
TP Monitor	<u>**CICS:**</u> IBM CICS Transaction Server V5R2, V5R3, V5R4, V5R5, V5R6 CICS transaction definitions for GuardIEn server load modules <u>**IMS:**</u> IBM IMS Transaction Manager V14, V15 (but both releases require additional Gen 8.6 PTFs to be applied) IMS transaction definitions for GuardIEn server load modules
Client/Server Communications	The server software is a Gen 8.6 generated client/server application, which uses Gen middleware for client to server communications. Supported middleware options are: • LU 6.2 supplied by IBM, APPC included with z/OS • Gen TCP/IP Direct Connect option for CICS • Gen TCP/IP Direct Connect option for IMS • Websphere MQ Series V8R0M0, V9R0M0, V9R1M0 • Web Services (SOAP) for CICS For further details consult the Gen Middleware documentation. Note that the communications middleware must be upgraded to the Gen 8.6 level prior to use to ensure compatibility with GuardIEn and associated Gen 8.6 runtimes. Applications built with previous version of Gen will continue to function using these runtimes as Broadcom have confirmed backwards compatibility.
Disk Space	GuardIEn System Datasets: 29665 (3390) tracks comprising… GuardIEn Runtimes: 16575 (3390) tracks GuardIEn Installation:12090 (3390) tracks GuardIEn Initial Database Load: 1000 (3390) tracks

Client

Operating System	Windows 7 or higher
Gen	• CA Gen 8.0 or higher
Client/Server Communications	The software is a Gen 8.6 generated client/server application that requires a licence for the Gen middleware for client to server communications. Supported middleware options are: • Client Manager • TCP/IP Direct Connect • MQ Series • Web Services For further details consult the Gen Middleware documentation.
Disk Space	Software: 600 Mb
Screen Resolution	Minimum 1024x768 16-bit colour Windows Appearance 'border padding' setting should be set to 0
Other	Visual Studio 2019 compiler required to amend the exits

For further details please see the *Gen 8.6 Technical Requirements*

GuardIEn 3rd Party CM Tool Interfaces

This section details the supported releases of 3rd party configuration management tools available via GuardIEn interfaces.

Configuration Management Tool	Supported Versions	HE/CSE	Vendor
ChangeMan ZMF	6.1, 7.1, 8.1, 8.2*	Both	Microfocus
Endevor SCM	17.0, 18.0	Both	Broadcom
Harvest SCM	12.6, 13.0, 13.0	CSE	Broadcom
ISPW SCM	04.04, 17.02, 18.02	HE	Compuware

*ChangeMan 8.2 verified with Service Releases 1, 2 and 3.