

TIBCO FOCUS®

UNIX/Linux Installation Guide

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Installing FOCUS on UNIX and Linux

This chapter describes the requirements and step-by-step instructions for installing on UNIX. This includes all UNIX platforms, such as HP-UX, AIX®, Solaris™, and Linux®.

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 - [Verifying Installation](#)
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Installation Requirements

Before you install, review the requirements in the following topics.

Platform and Operating Environment Requirements

The software is supported on most major platforms, including AIX, HP-UX, Linux, and Solaris. For current information about supported releases:

1. Go to <http://techsupport.informationbuilders.com>.
The Information Builders Technical Support home page opens.
2. In the Self-Service section, click *Supported Systems/Adapters*.
The Supported Systems and Adapters page opens.
3. Click the link for the release you want.
The Supported Systems and Adapters page for that release opens.
4. Click the link for your platform.
The support chart for that platform opens.

In general, the operating system should have the latest cumulative patch levels applied.

Confirm that your installation software is labeled for your operating system level.

Disk Space Requirements

The following are approximate disk space requirements in megabytes. Specific sizes may vary slightly depending on the release being used and the options selected during configuration. The usage numbers do not include space for actual applications, databases, sort space, output preparation, or logs.

Platform	After Installation
AIX	900 MB
HP- UX PA-RISC	1.2 GB
HP-UX IA64 (Integrity)	1.1 GB
Linux for Intel/AMD	800 MB
Linux for pSeries	900 MB
Linux for zSeries	900 MB
Solaris Sparc	900 MB - 1 GB
Solaris x86	900 MB

During installation, the disk space required is approximately 20 megabytes more than double the After Installation size. These numbers do not include space for applications. The ibisamp sample application requires an additional six megabytes.

Memory Requirements

Memory and shared memory usage depends on:

- Number of data adapters.
- Type of access performed (for example, joins, large-scale retrieval, and so on).
- Connection queue.

Memory usage differs depending on your implementation of UNIX and your FOCUS load.

The following table shows the approximate memory requirements for installing and running FOCUS.

Platform	Memory Per Session
HP-UX	46 MB
AIX	55 MB
Solaris (Sparc)	145 MB
Solaris (Intel)	82 MB
Linux for Intel/AMD 32b	66 MB
Linux for Intel/AMD 64b	96 MB
Linux for pSeries 64b	200 MB
Linux for zSeries 64b	100 MB
Linux for zSeries 32b	80 MB

Communications Requirements

You need one TCP/IP port for the FOCUS SU instance that you configure. By default, the installation procedure uses 8102. If you are installing FOCUS for Distributed Systems on a box that is also running WebFOCUS, you will need to enter a unique port number for the FOCUS SU instance to avoid conflict with WebFOCUS. To change the default port number, enter N when prompted to Proceed with defaults.

User ID Requirements

When installing and using FOCUS, you need two types of operating system user IDs:

- FOCUS administrator IDs (iadmin).** FOCUS administrators use this ID to install FOCUS. This ID is also used to configure FOCUS.

The operating system ID you use when installing FOCUS owns the FOCUS files. You can create a new operating system ID to run and own the FOCUS files, or use any ordinary (non-superuser) ID. However, you should not install FOCUS as root. The FOCUS administrator ID should have a Korn, Bourne, or Bash shell as the default logon shell.

Note that the name *iadmin* is used to refer to the FOCUS administrator ID and group throughout this manual, but you may use any name for this ID. If you have WebFOCUS installed and already use *iadmin* for that administrator ID, you can still use *iadmin* for the FOCUS administrator. However, to avoid confusion, you may prefer to use a new ID for the FOCUS administrator.

For security purposes, you should not allow users and applications to use the *iadmin* ID. It should be available only to users who require administrative privileges.

- ❑ **User and application IDs.** When users and applications try to access FOCUS, FOCUS is started with the security set for that user's ID and group.

Installation and Configuration Directories

The installation process creates these high-level directories:

- ❑ **Home directory.** This installation directory stores the software programs and other files. We refer to this as EDASHOME, and when the software is running, the full path is stored in the environment variable EDASHOME. The default directory is

```
ibi/srv82/home[suffix]
```

where:

suffix

Is optional when installing and maintaining a single copy of the software. It is required if installing and maintaining multiple copies (for example, multiple maintenance releases) to ensure that each installed instance has a uniquely-named home directory. For example:

```
/home/iadmin/ibi/srv82/home
```

- ❑ **Configuration directory.** The files that control the behavior of each instance reside here. We refer to this as EDACONF, and when the product is running, the full path is stored in the environment variable EDACONF. The default directory is

```
ibi/srv82/foc
```

- ❑ **Application directory.** This is the default location for storing applications. We refer to this as APPROOT, and when the software is running, the full path is stored in the environment variable APPROOT. This directory may be shared by applications created with other Information Builders products. It defaults to the following:

```
ibi/apps
```


Security for application directories is handled at the operating system level. To avoid any possibility of these directories being accessed inappropriately by means of APP commands (such as APP DELETE *AppDirName*), use directory security to set the appropriate permissions on these directories.

- ❑ **Profiles directory.** The user and group profiles reside here. We refer to this as EDAPRFU, and when the software is running, the full path is stored in the environment variable EDAPRFU. This directory defaults to the following:

```
ibi/profiles
```

Installing FOCUS

This chapter describes how to install FOCUS.

Procedure: How to Install FOCUS

For performance reasons, the software should not be installed on, or accessed using NFS-mounted disks. A directly connected disk is always preferable.

To install the software:

1. Log on using the iadmin user ID.
Logging on with the iadmin ID is recommended (rather than with the su command).
2. Set the default protection mask to, at a minimum, read/execute (if it is not already set to that).

For example:

```
umask 022
```

Ensure that you have write privileges to the directory from which you are running the `isetup_focus` command. To test this, type:

```
touch xxxx
```

3. Run the installation procedure, `isetup`, specifying its full path (including the disk location). You can run the installation procedure from any location. Do not switch the current directory to the location of `isetup_focus`.

For example:

```
/u/iadmin/download/isetup_focus
```

4. Type `1` for the Install and Configure option.

You are then prompted for the location of the installation file `iserver.tar`.

5. Type the full path name of `iserver.tar`, or press the Enter key to accept the default.
You are now shown the default values of some basic properties, and given an opportunity to change them.
6. If you want to accept the default values, type Y and skip to Step 9. Otherwise, change any properties that you wish.

Note: If you are installing FOCUS for Distributed Systems on a box that is also running WebFOCUS, you will need to enter a unique port number for the FOCUS SU instance to avoid conflict with WebFOCUS. To change the default port number, enter *N*.

The default environment variables that you can change are:

Parameter	Description
<code>EDAHOME</code>	<p>Location of the FOCUS executable files. The default location is the <code>iadmin</code> ID home directory. The <code>EDAHOME</code> directory path name must conform to the pattern:</p> <pre>*/ibi/srv82*/home*</pre> <p>For more information about <code>EDAHOME</code>, see Installation and Configuration Directories on page 8.</p>

Parameter	Description
EDACONF	<p>Location of the configuration files for this instance.</p> <p>If you changed the EDASHOME value, the default EDACONF value changes to conform to EDASHOME.</p> <p>EDACONF must be in the same srv82 path as EDASHOME. The lowest-level EDASHOME directory (home) becomes the product type directory in EDACONF.</p> <p>For example, if EDASHOME is</p> <pre data-bbox="533 584 901 611">/home/iadmin/ibi/srv82/home</pre> <p>then EDACONF for a FOCUS defaults to:</p> <pre data-bbox="533 677 887 704">/home/iadmin/ibi/srv82/foc</pre> <p>If you are configuring FOCUS for Distributed Systems on a machine that already has a Reporting Server installed, be sure to specify a new configuration directory here. Do not use an existing directory. Each instance must have its own configuration directory. You can append characters to the name of the product_type directory to avoid overwriting the existing directory. For example:</p> <pre data-bbox="533 947 901 974">/home/iadmin/ibi/srv82/wfs2</pre> <p>For more information about EDACONF, see Installation and Configuration Directories on page 8.</p>
EDAPRFU	<p>Location of user and group profiles.</p> <p>For more information about EDAPRFU, see Installation and Configuration Directories on page 8.</p>
APPROOT	<p>Location of FOCUS applications.</p> <p>For more information about APPROOT, see Installation and Configuration Directories on page 8.</p>

Parameter	Description
<code>PORT_FOCUSSU</code>	<p>Is the port number for the FOCUS SU instance. The default value is 8102.</p> <p>Note: If you are installing FOCUS for Distributed Systems on a machine that is also running WebFOCUS, you will need to enter a unique port number for the FOCUS SU instance to avoid conflict with WebFOCUS. To change the default port number, enter <i>N</i>.</p>

For more information about EDAPRUFU, EDACONF, EDACONF, EDAPRUFU, and APPROOT, see [Installation and Configuration Directories](#) on page 8.

If you decide to change a default, you are prompted for a replacement value for each of the above variables, and given another chance to accept the default.

Review the configuration options displayed on the screen, and type Y if you accept them. Alternatively, to start over, enter *N*. To quit the installation procedure, enter *Q*.

Several progress messages display while FOCUS is being installed.

You should now verify your installation, as described in [Verifying Installation](#) on page 14.

Example: **FOCUS for Distributed Systems Installation Prompts and Responses**

This is an example of a FOCUS for Distributed Systems installation that uses the default settings.

Run the isetup procedure:

```
$ /home/iadmin/download/isetup_focus
```

The initial isetup screen opens. Enter 1 to install and configure:

```
-----
                Welcome to the Product Set Up Facility
        Please respond to the prompts or enter Q to quit at any prompt.
-----

        ISETUP: Now Installing TIBCO FOCUS 82 for Distributed Systems
-----

Select an option:

        1. Install and Configure
        2. Add Additional Configuration Instance
        3. Refresh Installation (Reinstall, Keep Configurations)
        4. Install Debuggables to the Installation Directory
        5. View Installation Notes

Enter a selection (Default=1) :    1
-----
```

To accept the default location of the tar file, press the Enter key:

```
-----
        Please enter the full path name of the media for the product
        (Default=/home/iadmin/newinst/iserver.tar)
        Please supply media or <Enter> :
```

Review the default settings and indicate whether you want to accept them (y), change them (n), or exit the procedure (q):

```
-----
        Please review the default settings.
        EDACONF = /home/iadmin/ibi/srv82/home
        EDACONF = /home/iadmin/ibi/srv82/foc
        EDAPRFU = /home/iadmin/ibi/profiles
        APPROOT = /home/iadmin/ibi/apps
        PORT_FOCUSU = 8102

        If you are satisfied with the default settings you may proceed to
        final confirmation else you will be prompted for individual values.
        Proceed with defaults? (Y/N Default=Y) :    y
-----
```

If you accept the defaults, a screen similar to the following displays.

```
The following selections have been made for ...

Install Options ...
media release name = R728207D
media gen number = 1935 03/23/2021 16:23:34
INSTALLATION_DEVICE = /home/iadmin/newinst/iserver.tar
PRODUCT = focus
EDAHOME = /home/iadmin/ibi/srv82/home

Configure Options ...
EDACONF = /home/iadmin/ibi/srv82/foc
EDAHOME = /home/iadmin/ibi/srv82/home
EDAPRFU = /home/iadmin/ibi/profiles
HOMEAPPS = /home/iadmin/ibi/homeapps
WORKSPACE_MANAGER_NAME = "FOCUS 82 FOCUS"
APPROOT = /home/iadmin/ibi/apps
PORT_FOCUSSU = 8102

Please confirm these values with one of the following responses ...

Y = Accept and Proceed
N = Start Over
Q = Quit

Please supply confirmation: y
```

You can enter *Y* to confirm the values and proceed, *N* to start over, or *Q* to quit. you confirm these values, the following screen displays.

```
Please wait while we are installing the product ...

ISETUP: Installation Step completed

Please wait while we are configuring the product

ISETUP: Configuration Step completed
-----
```

Verifying Installation

After installing, verify that the software is functioning properly.

Procedure: How to Verify FOCUS Installation

To verify that you have successfully installed, use the configuration that is created by the base installation. You can verify the installation by bringing up FOCUS, running a test procedure and exiting from FOCUS.

1. Log on to your UNIX or Linux operating system using the iadmin ID.

2. Start the FOCUS session with the appropriate path to the focus script.

For example:

```
/home/iadmin/ibi/srv82/foc/bin/focus
```

You should now see the FOCUS command prompt >>.

3. Create the FOCUS sample files, using the following command.

```
EX SAMPLTUT TUTORIAL=LEGACY,CMAPP=ibisamp
```

4. Execute the following test procedure at the FOCUS command prompt.

```
TABLE FILE CAR
PRINT COUNTRY CAR MODEL
END
```

You should now see the output from the report request in Hotscreen.

```
PAGE      1

COUNTRY   CAR                MODEL
-----   -
ENGLAND   JAGUAR                   V12XKE AUTO
ENGLAND   JAGUAR                   XJ12L AUTO
ENGLAND   JENSEN                   INTERCEPTOR III
ENGLAND   TRIUMPH                  TR7
JAPAN     DATSUN                   B210 2 DOOR AUTO
JAPAN     TOYOTA                   COROLLA 4 DOOR DIX AUTO
ITALY     ALFA ROMEO               2000 GT VELOCE
ITALY     ALFA ROMEO               2000 SPIDER VELOCE
ITALY     ALFA ROMEO               2000 4 DOOR BERLINA
ITALY     MASERATI                 DORA 2 DOOR
W GERMANY AUDI                 100 LS 2 DOOR AUTO
W GERMANY BMW                 2002 2 DOOR
W GERMANY BMW                 2002 2 DOOR AUTO
W GERMANY BMW                 3.0 SI 4 DOOR
W GERMANY BMW                 3.0 SI 4 DOOR AUTO
W GERMANY BMW                 530I 4 DOOR
W GERMANY BMW                 530I 4 DOOR AUTO
FRANCE    PEUGEOT                  504 4 DOOR
```

5. Enter FIN at the command prompt to exit FOCUS.

***Procedure:* How to Determine Which Adapters Are Supported on UNIX**

For current information about which adapters are supported:

1. Go to <http://techsupport.informationbuilders.com>.

The Information Builders Technical Support home page opens.

2. In the Quick Links section on the right side of the page, click *Supported Systems/Adapters*. The Supported Systems and Adapters page opens.
3. Click the link for the release you want.
The Supported Systems and Adapters page for that release opens.
4. Click the link for your platform.
The support chart for that platform opens.

Startup Options

The following table describes commonly used startup options and functions.

Command and Option	Function
<code>focus</code>	Starts the session with the line mode console, which enables you to view the FOCUS log and to dynamically issue focus options, such as <code>startsu</code> , <code>stopsu</code> , and <code>traceon</code> .
<code>focus -traceon</code>	Turns on tracing. May be used at startup or afterward. It is preferable to run traces at startup, unless instructed otherwise. Turn tracing on only when there is a problem that needs to be traced, to avoid incurring the associated overhead.
<code>focus -traceoff</code>	Turns off tracing.

Generating a Trace

If you encounter a problem, you can run a set of traces that will help you assess the problem, and, if necessary, communicate it to Customer Support Services for further assistance. This topic describes trace options and provides instructions for creating the traces.

Procedure: How to Generate a Trace

To generate a trace:

1. Create a directory under APPROOT to reproduce the problem.
2. Copy any files required for the reproduction to the directory.

3. Switch to the directory.
4. Reproduce the problem using the `focus -traceon` startup option and executing the procedure you are tracing.
5. Switch to a directory other than the problem reproduction directory.
6. Issue the following command:

```
focus -savediag
```

You must preface `focus` with the appropriate path, or place the directory in your system `PATH` variable.

7. Respond to the prompts to capture, and optionally archive, diagnostic information.

Diagnostic information will commonly contain user data. If the release of that data is considered a security concern when shipping to Customer Support Services, the `-savediag` feature also allows a diagnostic to be saved and shipped later to allow the site the opportunity to review and cleanse the traces of data of this nature before shipping. For information about sending the diagnostic information to Customer Support Services, contact the Customer Support team.

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