

IBM Z Development and Test Environment (ZD&T)

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z/TPF Development

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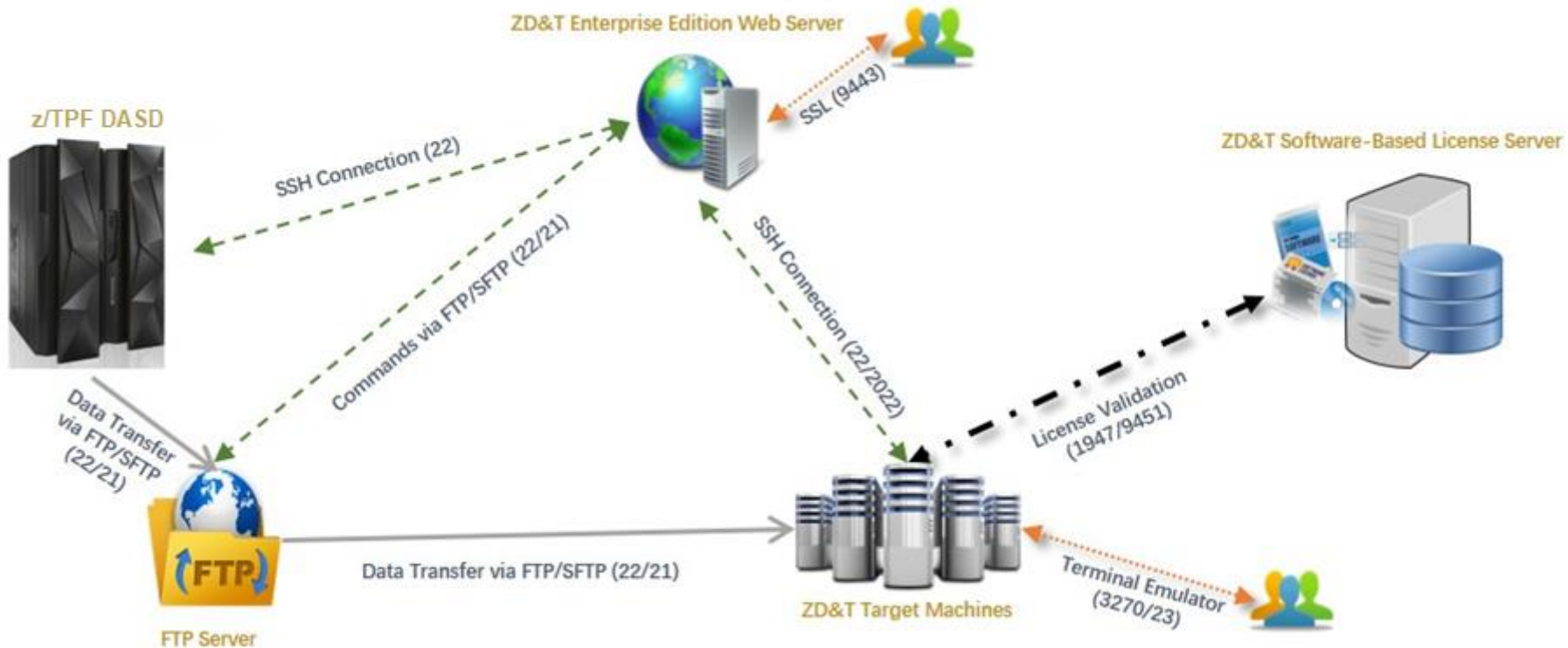
“IBM Z Development and Test Environment (ZD&T) provides an isolated and controllable IBM Z environment running on a x86-compatible on-premise system or cloud.”

What's new in ZD&T v12 (GA: March 2018)

- Support for z14 CPU Architecture
- Validate with a software-based license
- Operate the emulator on the cloud
- Support multiple users with a RVU license
- Manage system images with a web-based interface



ZD&T Enterprise Edition with RVU License



ZD&T Benefits

- Reduce costs associated with testing on a physical IBM Z system
- Save and restore different database instances of a z/TPF environment
- Experiment on an isolated platform without impacting others
- Provide distributed system developers with access to a z/TPF environment
- Mitigate development disruptions caused by inaccessible test systems



QUICK START

Create ...

COMPONENT

Collection of assets from an IBM Z mainframe, intended to be reusable in a mix and match fashion with other components from the same IBM Z mainframe. Create from ...

- IBM Z mainframe DATA SETS
- IBM Z mainframe VOLUMES
- IBM Application Discovery PROJECTS

IMAGE

Collection of application components that are packaged together as a single deliverable for running on a target environment. Create from ...

- IBM Z COMPONENTS
- Application Developers Controlled Distributions (ADCD)
- IMPORT existing content



MONITOR – Inventory and check status on all created assets and target environments. Ensure that creation and deployment processes are running properly.



DEPLOY – Copy available images to target environments for development and testing purposes.



CONFIGURE – Administer IBM Z Development and Test Environment Enterprise Edition features:

- Users
- Target environments
- Image storage
- IBM Application Discovery
- ADCD
- Emulator licenses

Set up z/TPF on ZD&T

The following steps can be completed with the assistance of provided tools and samples:

- Copying z/TPF volumes into ZD&T
- Defining system config in devmap file
- Initializing emulated tapes for z/TPF
- Perform IPL on prime module

```
[system]
memory 4096m                # 4GB system memory
processors 3                # Three I-streams
3270PORT 3270              # TCP/IP port for TN3270

[manager]
name aws3215 0
device 0056 3215 3215      # Primary 3215 console

[manager]
name aws3274 1
device 008B 3277 3274 int061
device 0024 3284 3274 int062

[manager]
name awsprt 2
device 000E 1403 2821      # System printer
device 000F 1403 2821

[manager]
name awsosa 3 --path=f0 --pathtype=osd # OSA adapter
device 1A0 osa osa
device 1A1 osa osa
device 1A2 osa osa

[manager]
name awstape 4 --maxlength=4096m      # Two tape devices
device B600 3480 3803 /home/zdevtest/z1090/tapes/TAPE00
device B601 3480 3803 /home/zdevtest/z1090/tapes/TAPE01

[manager]
name awsckd 5
device 1EC0 3390 3990 /z/BJ0001      # 32 DASD volumes
device 1EC1 3390 3990 /z/BJ0002      # Prime IPL module
device 1EC2 3390 3990 /z/BJ0003
```


***Please visit the IBM Z Development and Test Environment
product page for more information.***

***([https://www.ibm.com/us-en/marketplace/z-systems-
development-test-environment](https://www.ibm.com/us-en/marketplace/z-systems-development-test-environment))***



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Monitor assets and systems

APPLICATION IMAGES

TPF BAS SVT (2017) [devmap2]

OWNER

- zdtadmin

ORIGINAL IBM Z DEVELOPMENT AND TEST ENVIRONMENT

- 9.56.40.12

INITIAL PROGRAM LOAD COMMAND

- Not applicable

VOLUMES

- B30001
- B30002
- B30003
- B30004
- B30005
- B30006
- B30007
- B30008

TARGET ENVIRONMENTS

TPF Attic (I3232)

DEPLOYED IMAGE

No image loaded

HOST NAME

9.56.40.12

OWNER

zdtadmin

- Available
- Deploying
- In use
- Offline

> KNOWN IBM Z MAINFRAMES



Monitor

Inventory and check status on all created assets and target environments. Ensure that creation and deployment processes are running properly.

Application component

Application image

Target environments



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Deploy an image to a target environment

1

APPLICATION IMAGES

Select an application image.

IMAGE	SIZE
<input checked="" type="radio"/> TPF_BAS_2017_SVT_FINAL2	127.28

Properties

Additional details are required to complete this selection.

TPF Attic (I3232) >

Central Processors (CPs)

1 8 **3**

System memory (GB)

2 16 **15**

Deployment directory

/home/zdevtest

Automatically issue IPL command to z/OS after deploy

Cancel

Previous

Complete

3

COMPLETE

Deploying an image will perform the following actions on the target environment:

1. If the selected target environment is a Cloud platform then provision a Linux target system.
2. Install IBM Z Development and Test Environment.
3. Generate a devmap file for the selected application image.
4. Transfer the volumes for the selected application image.
5. Modify z/OS settings, if necessary.
6. Start the IBM Z mainframe emulator.
7. Optionally perform the z/OS initial program load (IPL).

Deploy Image