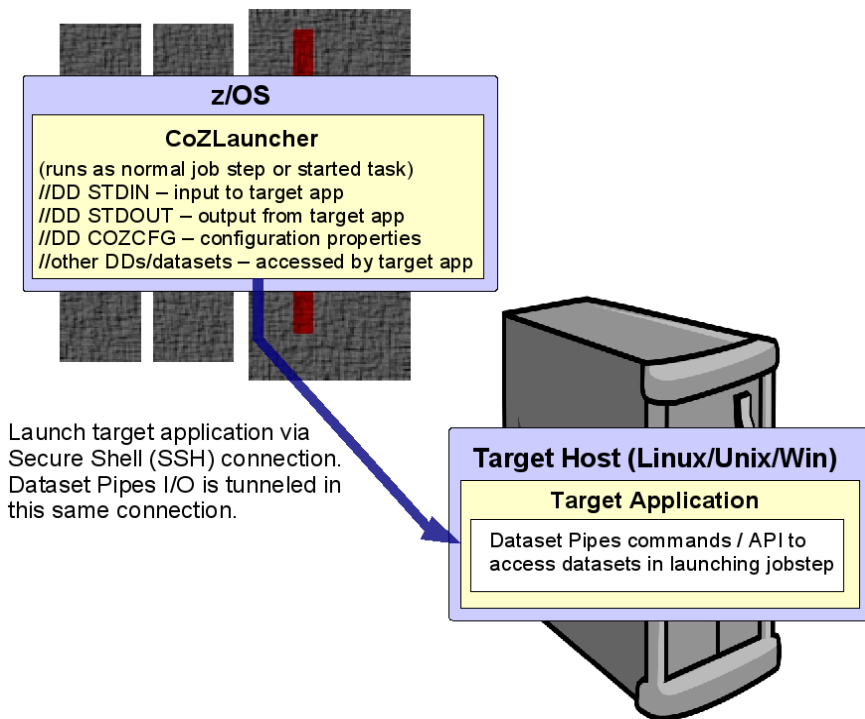




## Co:Z™ Co-Processing Toolkit for z/OS®



z/OS has evolved over decades of experience as the dominate enterprise operating system for running scheduled or event-driven batch workloads.

Though many organizations rely on z/OS for what it does best, other operating systems are often deployed as Web and ERP application platforms.

Efforts to integrate these systems with z/OS have largely depended on complex sequences of file-transfers and multi-platform distributed job scheduling tools.

### Now there's a better way:

The Co:Z Co-Processing Toolkit for z/OS allows any z/OS batch job to remotely launch a process on a distributed system, redirecting input and output from that process to traditional z/OS datasets or pool files.

Remote processes are securely launched using proven SSH (Secure Shell) technology to the target platform, which may be Linux, Windows, or other Unix/POSIX platforms.

### But that's only beginning...

The remote/target process can use Co:Z Dataset Pipes commands or APIs to reach back into the Co:Z Launcher jobstep and access MVS datasets - by name or DD reference. These APIs allow for very flexible control over the conversion of record-oriented z/OS datasets to or from byte-stream pipes usable by the target application.

From the perspective of the z/OS operator, the job can be managed and controlled like other batch jobs. Output from long running remote processes is immediately available on SYSOUT spool files. z/OS console commands can be used to control and monitor the remote process. z/OS automation facilities can be engaged throughout to manage and control distributed processes started by the Co:Z Launcher.

### Highlights

- Securely launch and control remote processes (programs, scripts, etc.) from a z/OS batch job step or started task.
- Redirect input and output of remote process to DDs in the launching job step.
- Target process exit code is captured as job step condition code.
- **Co:Z Launcher** job step acts as a server for z/OS dataset I/O.
- z/OS console commands can be used to monitor, control, and send input to remote processes.
- Existing z/OS scheduling and automation facilities can be used to schedule, monitor, and control processes on all servers on the network.
- **Dataset Pipes** client commands and APIs provide flexible conversion of z/OS datasets to streams for use in target applications. Options allow for control of line rules, translation, padding/truncation, dataset allocation and DCB processing.
- **FREE!**

## Imagine the possibilities...

- *Offload selected CPU-intensive programs to inexpensive platforms, while retaining existing job-stream structure and operational control.*
  - Most z/OS shops have programs that are "CPU hogs" relative to the amount of I/O that they do. These applications can incur immense hardware and software license costs. It is often possible to port such "CPU hogs" to an inexpensive Linux or Windows platform, using Co:Z to launch and redirect z/OS dataset I/O.
- *Use open source tools on distributed platforms with z/OS datasets.*

### **Examples:**

- Remotely launch **gpg** to encrypt a temporary dataset passed from a previous jobstep, writing the encrypted output to another dataset.
  - Remotely launch **wget** to download data from the internet, use **awk** to convert the data into SQL INSERT statements which are written to a z/OS dataset. A subsequent job step uses this dataset as input to a z/OS DB2 utility.
- *Cooperatively integrate z/OS applications and data with distributed applications.*

### **Example:**

- Add a step in an existing job which remotely launches a "database load" utility on a distributed ERP system.
  - Use data from a DD in the launching job step as input to the ERP load utility.
  - Write the output report from the utility to a SYSOUT dataset.
  - Use the utility exit code as the job step's condition code to control execution of subsequent job steps or trigger z/OS automation to deal with any errors.
- *Using z/OS for centralized scheduling and systems management of highly-virtualized Linux for System z environments.*
    - Use Co:Z Launcher to automate maintenance, backups, and data integration with Linux LPARs and virtual machines.

Also known as: "[Herding Penguins](#)"

## System Requirements

### **Co:Z Toolkit for z/OS Requirements**

- z/OS 1.4 and above
- IBM "Ported Tools for z/OS" (OpenSSH) (no-charge IBM program product)

### **Co:Z Toolkit for Target Systems Requirements**

- OpenSSH or compatible SSHD server
- Pre-built binary packages available for many Linux distributions and Windows 2000/XP/Vista.
- All target host tools are also distributed free under the Open Source GNU Public License.

### **z/OS Licensing and Support**

- Free download distributed under the Apache V2 License.
- Free support available via our support forum at: <http://dovetail.com/forum>
- Commercial support contracts and consulting available.

*For more information, please contact:*

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phone: 636.300.0901

**See more examples and information at:**

<http://dovetail.com/coz>