

Execute Server Commands from Caché / Ensemble / IRIS

Article



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The question has come up several times and I saw mixed answers and no quick example

My personal preference is using CPIPE device as you get back exactly the output you will get at the command line interface of your OS .

The tricky thing is to stop reading in time.

The example just displays what you normally see in your console.

it becomes useful if you look for things that you can't get from any `$system.whatever()`

e.g.

- your servers IP address or addresses depending on your configuration.
- pinging any other server to see if it is still visible on the network
- running nslookup

This is a coding example working on Caché 2018.1.3

It will not be kept in sync with new versions

It is also **NOT** serviced by InterSystems **Support** !

it is simply this:

```
Zpipe quit ; CPIPE example to run host console command
cmd(command="",test=0) ;
  if command="" set command="dir"
  quit $$execute(command,test)

execute(cmd,test) Public {
  set dev="|CPIPE|1"
  set $zt="cls"
  set empty=0
  open dev:cmd:0
  write:test $test,!
  else write "pipe failed",! quit 0
  while empty<3 {
    use dev read line
    set empty=$s($l(line):0,1:$i(empty))
    use 0 write line,! ;;; or do any kind of analysis of the line
  }

  cls ;
  set $zt="" use 0
  close dev
  if $ze'["<ENDOFFILE>" w $ze,!
  quit $t
}
```

..

Just run `USER>do cmd^Zpipe()` to see if you are allowed to use PIPES
(I just met a narrow-minded security manager that didn't allow the use of pipes to Caché)

or

```
USER>do cmd^Zpipe("tracert community.intersystems.com")
```

Tracing route to community.intersystems.com [54.83.203.138] over a maximum of 30 hops:

```
  1     3 ms     1 ms     1 ms  10.10.1.1
  2     *         *         *      Request timed out.
  3    116 ms    168 ms    132 ms  at-vie01b-rc1-ae11-0.aorta.net [84.116.228.201]
  4    142 ms    114 ms    115 ms  at-vie05d-rc1-ae29-0.aorta.net [84.116.140.2]
  5     *         *         *      Request timed out.
  6    114 ms    114 ms    115 ms  us-nyc01b-rd2-ae9-0.aorta.net [84.116.140.170]
  7    118 ms    116 ms    117 ms  us-was03a-rd1-ae5-0.aorta.net [84.116.146.142]
  8    114 ms    115 ms    114 ms  us-was03a-ri1-ae11-0.aorta.net [84.116.130.165]
  9    114 ms    116 ms    114 ms  213.46.182.202
 10    145 ms    132 ms    132 ms  54.239.111.240
 11    115 ms    115 ms    114 ms  54.239.110.152
 12    126 ms    136 ms    132 ms  54.239.110.149
 13    115 ms    116 ms    114 ms  54.239.108.133
 14    129 ms    148 ms    133 ms  52.93.24.94
 15    115 ms    114 ms    117 ms  52.93.24.85
 16     *         *         *      Request timed out.
 17     *         *         *      Request timed out.
 18     *         *         *      Request timed out.
 19     *         *         *      Request timed out.
 20     *         *         *      Request timed out.
 21   429 ms    121 ms    114 ms  ec2-54-83-203-138.compute-1.amazonaws.com
[54.83.203.138]
```

Trace complete.

[Check the related application on InterSystems Open Exchange.](#)

100 3 4 961 [1](#)

Source URL: <https://community.intersystems.com/post/execute-server-commands-cach%C3%A9-ensemble-iris>