try

Command Reference

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1. Description

try catch finally.

The try command models the familiar try/catch/finally control structure. The command lets you run an ad hoc or defined command and optionally run a different one if the first one fails and yet another one after the first one has finished.

The try command will attempt to execute a command. Commands can be one of these things:

- executable: Run the specified executable
- script: Evaluate the script using the specified executable
- scriptfile: Run the script file using the specified executable
- command: Run the defined command in the specified module

The "catch" and "finally" actions are similarly specified but are prefixed with that corresponding name (eg, catchexecutable, catchscript, finallyexecutable, finallyscript).

If an error occurs during the execution of the command and no catch command is specified then try will exit with an error. If a catch command is specified, the try command will exit normally (assuming the catch command or finally one does not error too).

static: This command can be run outside of an object context.

2. Usage

```
ctl -m logicutil -c try [-argline <>] [-catchargline <>]
[-catchcommand <>] [-catchexecutable <>] [-catchscript <>]
[-catchscriptfile <>] [-command <>] [-executable <>]
[-finallyargline <>] [-finallycommand <>] [-finallyexecutable
<>] [-finallyscript <>] [-finallyscriptfile <>] [-output <>]
[-script <>] [-scriptfile <>]
```

2.1. Options

Options are grouped into roughly three parts: the action to try, the catch action and the finally action.

try [try options] [catch options] [finally options]

Ad hoc commands are supported via the executable and script and scriptfile options. You can run a defined command via the command options. Defined commands are specified using *type#command* (eg, netutil#listening).

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If a script or scriptfile is specified but no executable, the command will default executable to sh on unix or cmd.exe on windows.

Option	Description	Туре	
argline	The tryargline to try.	string	
catchargline	The catch argline.	string	
catchcommand	The catch CTL command.	string	
catchexecutable	The catch executable.	string	
catchscript	The catch script.	string	
catchscriptfile	The catch scriptfile.	string	
command	The CTL command to try.	string	
executable	The executable to try.	string	
finallyargline	The finally argline.	string	
finallycommand	The finallycommand CTL command.	string	
finallyexecutable	The finally executable.	string	
finallyscript	The finally script.	string	
finallyscriptfile	The finally scriptfile.	string	
output	Direct try output to file.	string	
script	The script to try.	string	
scriptfile	The scriptfile to try.	string	

3. Examples

Execute an inline shell script. Echos the string "hello" to the console:

ctl -p demo -m logicutil -c try -- -executable /bin/sh -script "echo hello" *output*: hello

Execute a script file. Here's a script called "/tmp/hello.sh" that echos the argument string specified via the "-argline" option:

#!/bin/sh echo "\$@"

Use the "scriptfile" option. The "argline" argument will be passed as the arguments to the script.

```
ctl -p demo -m logicutil -c try -- -executable /bin/sh -scriptfile /tmp/hello.sh -argline hello
```

output: hello

Catch errors with a *catch* action. A catch action is specified similar to the one being tried. Here's an example that intentionally fails by causing the script to exit non-zero.

```
ctl -p demo -m logicutil -c try -- \
    -executable /bin/sh -script "exit 1" -catchexecutable /bin/sh
-catchscript "echo caught the error"
```

```
output: caught the error
```

Errors that are caught prevent the try command from exiting with an error. The command will exit with a 0 exit code. (eg, \$? = 0)

A finally action will run no matter if an error is occurs or not

```
ctl -p demo -m logicutil -c try -- \
   -executable /bin/sh -script "exit 1" -catchexecutable /bin/sh -script
"echo caught the error" \
   -finallyexecutable /bin/sh -finallyscript "echo caught the error"
```

output:

```
Caught exception: shell-exec returned: 1
caught the error
finally
```

Commands defined in modules can also be called. Commands are referenced using this notation: typename#commandname.

Here's an example that calls the available command in the <u>fileutil</u> module.

```
ctl -p demo -m logicutil -c try -- -command fileutil#available -argline "-file /etc/motd"
```

output: true

Here available is run again but this time referring to a file that does not exist.

```
ctl -p demo -m logicutil -c try -- \
-command fileutil#available -argline "-file /tmp/bogus
-failonerror" -catchscript "echo file was bogus"
```

output:

```
Caught exception: The following error occurred while executing this line:
/Users/alexh/ctier/ctl/modules/fileutil/commands/available.xml:26: file not
```

found: /tmp/bogus file was bogus