



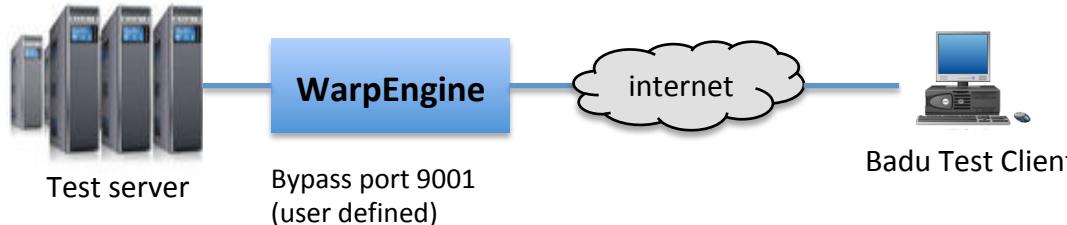
## Periodic testing

**CIO** Review 20 MOST PROMISING  
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# Monitoring WarpTCP Benefit With the Badu Networks Performance Test Tool

- Make accurate periodic measurements of WarpTCP benefit
- Server supports multiple client connections
- Simple .CSV output
- Easily configured Measurement period
- Command line and UI interfaces



# Deployment Steps –Server

## Basic

1. Install test server on a Linux or Windows server
  1. Test tool bundle: [www.badunetworks.com/testing/](http://www.badunetworks.com/testing/)
2. Start the test server on two ports
  1. ./BaduTestServer 9000 &
  2. ./BaduTestServer 9001 &

## Advanced: (Watchdog setup)

- Windows
  - See the “Windows Watchdog instructions.pdf” in the download
- MAC OS
  - See “MACOS watchdog client instructions.pdf”
- Linux
  - Add the following to crontab, using the command: crontab -e

```
* * * * * /path/to/BaduTestWatchdog.sh >/dev/null 2>&1
```
  - This should run every minute



# Deployment Steps – Basic Client

## Basic

1. Install the test client at each desired monitoring point
2. Define tests on the client tool

## Advanced:

- Windows: See BaduNetworks-PeriodicClient.pdf
- MAC OS and Linux:
  1. Save the test configuration: tests.js
  2. Run the test client using the command line
    1.     `./BaduTestTool --run /path/to/tests.js`
  3. Add the following to crontab for periodic measurements using the command: `crontab -e`
    - `* * * * * /path/to/BaduTestTool --run /path/to/tests.js >/dev/null 2>&1`
    - Example for hourly repeat: `0 * * * * /path/to/BaduTestTool --run /path/to/tests.js >/dev/null 2>&1`



# Test Configuration (on the client)

**Control** **Help**

## Test Control

Batch: 1/1  
Test: 10/10  
Estimated time left: < 1 min

Server	IP:Port or URL	Port
WarpTCP	13.54.195.116	: 9000
TCP	13.54.195.116	: 9001

**Test server IP + test ports**

Path to CSV file to append to:  
`/Badu/testresults`

Number of times to repeat tests: 100

Time between tests: Days: 1 Hours: 0 Minutes: 0 Seconds: 0

**Test results path**

**Delay between test batches**

**Tests to run each batch**

Size in Bytes (M, k)	Iterations	Mode	Upload	Download	Average Download WarpTCP/TCP (Mbps)	Average Upload WarpTCP/TCP (Mbps)	Benefit
1M	20	Alternating ↗	<input type="checkbox"/>	<input checked="" type="checkbox"/>	7.5	2.0	269.9%
100K	20	Alternating ↗	<input type="checkbox"/>	<input checked="" type="checkbox"/>	0.0000	0.0000	%

Add

**Test Statistics**

Number of Tests (Upload + Download):	40
Total Transmit Bytes:	0 B
Total Receive Bytes:	22 MB
Average WarpTCP Upload:	0.0 bps
Average WarpTCP Download:	0.0 bps
Average TCP Upload:	0.0 bps
Average TCP Download:	0.0 bps

[Download Output CSV](#)

**Save this configuration to test.js**

