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```
sebhildebrandt inetLatency() fix for alpine (linux) 

Ax 2 contributors
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```
236 lines (220 sloc) | 8.43 KB
                                                                                                                                                                                                                                                                        ...
         // @ts-check
        // -----
        // internet.js
        // -----
        // Description: System Information - library
                                   for Node.js
        // Copyright:
                                 (c) 2014 - 2022
        // Author:
                                  Sebastian Hildebrandt
 10
        // -----
        // License: MIT
 11
 12
         // -----
 14
 15
 16
        // const exec = require('child_process').exec;
        const util = require('./util');
 17
 18
        let _platform = process.platform;
 20
 21
         const _linux = (_platform === 'linux' || _platform === 'android');
        const _darwin = (_platform === 'darwin');
 22
        const windows = ( platform === 'win32');
 23
        const _freebsd = (_platform === 'freebsd');
 24
         const _openbsd = (_platform === 'openbsd');
         const _netbsd = (_platform === 'netbsd');
 27
         const _sunos = (_platform === 'sunos');
 28
 29
         // -----
 30
        // check if external site is available
 31
 32
          function inetChecksite(url, callback) {
 33
 34
           return new Promise((resolve) => {
 35
               process.nextTick(() => {
 36
                 let result = {
 37
                   url: url,
 38
                    ok: false,
 39
                    status: 404,
 40
                    ms: null
 41
                 if (typeof url !== 'string') {
 42
                    if (callback) { callback(result); }
 43
 44
                    return resolve(result);
 46
                  let urlSanitized = '';
 47
                  const s = util.sanitizeShellString(url, true);
                  for (let i = 0; i <= util.mathMin(s.length, 2000); i++) {</pre>
 48
 49
                  if (s[i] !== undefined) {
 50
                       s[i].__proto__.toLowerCase = util.stringToLower;
                        const sl = s[i].toLowerCase();
 51
 52
                       if (sl && sl[0] && !sl[1] && sl[0].length === 1) {
 53
                          urlSanitized = urlSanitized + sl[0];
 54
                       }
 55
                   }
 56
 57
                  result.url = urlSanitized;
 58
 59
                    if (urlSanitized && !util.isPrototypePolluted()) {
 60
                       urlSanitized.__proto__.startsWith = util.stringStartWith;
 61
                       if (urlSanitized.startsWith('file:') || urlSanitized.startsWith('gopher:') || urlSanitized.startsWith('telnet:') || urlSanitized.startsWith('mailto:') || urlSanitized.startsWith('mailto:') || urlSanitized.startsWith('telnet:') || urlSanitized.startsWith('mailto:') || urlSanitized.startsWith('mailto:') || urlSanitized.startsWith('mailto:') || urlSanitized.startsWith('telnet:') || urlSanitized.startsWith('mailto:') || urlSanitized.startsWith('mailt
 62
                          if (callback) { callback(result); }
 63
                          return resolve(result);
 65
                        let t = Date.now();
 66
                       67
                          let args = ['-I', '--connect-timeout', '5', '-m', '5'];
 68
                          args.push(urlSanitized);
 69
                          let cmd = 'curl';
                          util.execSafe(cmd, args).then((stdout) => {
 71
                             const lines = stdout.split('\n');
 72
                             73
                             result.status = statusCode || 404;
                             result.ok = (statusCode === 200 || statusCode === 301 || statusCode === 302 || statusCode === 304);
 74
                             result.ms = (result.ok ? Date.now() - t : null);
 75
 76
                              if (callback) { callback(result); }
 77
                             resolve(result);
 78
                          });
```

```
79
  80
                            if (_windows) { \  \  \, // if this is stable, this can be used for all OS types
 81
                               const http = (urlSanitized.startsWith('https:') ? require('https') : require('http'));
 82
                               try {
 83
                                 http.get(urlSanitized, (res) => {
  84
                                    const statusCode = res.statusCode;
  85
  87
                                     result.ok = (statusCode === 200 || statusCode === 301 || statusCode === 302 || statusCode === 304);
  88
  89
                                     if (statusCode !== 200) {
  90
                                       res.resume();
                                        result.ms = (result.ok ? Date.now() - t : null);
  91
                                         if (callback) { callback(result); }
  93
                                        resolve(result);
  94
                                     } else {
                                        res.on('data', () => { });
 95
                                        res.on('end', () => {
 96
 97
                                          result.ms = (result.ok ? Date.now() - t : null);
                                            if (callback) { callback(result); }
  99
                                            resolve(result);
100
                                        });
101
                                  }).on('error', () => {
102
                                     if (callback) { callback(result); }
103
104
                                     resolve(result);
105
106
                              } catch (err) {
107
                                 if (callback) { callback(result); }
108
                                 resolve(result);
109
110
112
                            if (callback) { callback(result); }
113
                           resolve(result);
114
115
                    } catch (err) {
                       if (callback) { callback(result); }
116
117
                        resolve(result);
118
119
                 });
120
             });
121
122
           exports.inetChecksite = inetChecksite;
124
125
126
           // check inet latency
127
128
           function inetLatency(host, callback) {
129
130
              // fallback - if only callback is given
131
              if (util.isFunction(host) && !callback) {
132
                 callback = host;
133
                 host = '';
134
135
136
             host = host || '8.8.8.8';
137
138
              return new Promise((resolve) => {
139
                 process.nextTick(() => {
140
                    if (typeof host !== 'string') {
141
                       if (callback) { callback(null); }
142
                       return resolve(null);
143
144
                    let hostSanitized = '';
145
                    const s = (util.isPrototypePolluted() ? '8.8.8.8' : util.sanitizeShellString(host, true)).trim();
146
                     for (let i = 0; i <= util.mathMin(s.length, 2000); i++) {</pre>
147
                       if (!(s[i] === undefined)) {
                           s[i].__proto__.toLowerCase = util.stringToLower;
148
                            const sl = s[i].toLowerCase();
149
150
                            if (sl && sl[0] && !sl[1]) {
151
                              hostSanitized = hostSanitized + sl[0];
152
153
                       }
154
155
                    hostSanitized.__proto__.startsWith = util.stringStartWith;
156
                     if (hostSanitized.startsWith('file:') || hostSanitized.startsWith('gopher:') || hostSanitized.startsWith('telnet:') || hostSanitized.startsWith('mailio:') || hostSanitized.st
157
                       if (callback) { callback(null); }
158
                       return resolve(null);
159
160
                    let params;
161
                     \begin{tabular}{ll} \textbf{if} (\_linux \ || \ \_freebsd \ || \ \_openbsd \ || \ \_netbsd \ || \ \_darwin) \ \{ \end{tabular} 
162
                       if (_linux) {
163
                           params = ['-c', '2', '-w', '3', hostSanitized];
164
165
                       if (_freebsd || _openbsd || _netbsd) {
   params = ['-c', '2', '-t', '3', hostSanitized];
166
167
                        if (_darwin) {
                           params = ['-c2', '-t3', hostSanitized];
169
170
171
                        \verb|util.execSafe('ping', params).then((stdout) => \{|
172
                           let result = null:
173
                           if (stdout) {
174
                              const lines = stdout.split('\n').filter((line) => (line.indexOf('rtt') >= 0 || line.indexOf('round-trip') >= 0 || line.indexOf('avg') >= 0)).join('\n');
175
176
                              const line = lines.split('=');
```

```
177
                   if (line.length > 1) {
178
                     const parts = line[1].split('/');
179
                      \  \  \, \textbf{if} \  \, (\texttt{parts.length} \, > \, \textbf{1}) \, \, \, \{ \\
                       result = parseFloat(parts[1]);
180
181
182
                  }
183
184
                 if (callback) { callback(result); }
185
                 resolve(result);
186
              });
187
             if (_sunos) {
188
              const params = ['-s', '-a', hostSanitized, '56', '2'];
189
               const filt = 'avg';
191
               util.execSafe('ping', params, { timeout: 3000 }).then((stdout) => {
192
                 let result = null;
193
                 if (stdout) {
                    {\color{red} \textbf{const lines = stdout.split('\n').filter(line => line.indexOf(filt) >= 0).join('\n');} 
194
                   const line = lines.split('=');
195
196
                   if (line.length > 1) {
197
                     const parts = line[1].split('/');
198
                      \  \  \, \textbf{if} \  \, (\texttt{parts.length} \, > \, \textbf{1}) \, \, \, \{ \\
                       result = parseFloat(parts[1].replace(',', '.'));
199
200
201
                  }
202
203
                 if (callback) { callback(result); }
204
                 resolve(result);
205
              });
206
207
             if (_windows) {
              let result = null;
208
210
                 const params = [hostSanitized, '-n', '1'];
211
                 util.execSafe('ping', params, util.execOptsWin).then((stdout) => {
212
                  if (stdout) {
                     let lines = stdout.split('\r\n');
213
                     lines.shift();
214
215
                     lines.forEach(function (line) {
216
                       if ((line.toLowerCase().match(/ms/g) || []).length === 3) {
217
                         let 1 = line.replace(/ +/g, ' ').split(' ');
                         if (1.length > 6) {
218
                           result = parseFloat(1[1.length - 1]);
219
220
221
222
                     });
223
224
                   if (callback) { callback(result); }
225
                   resolve(result);
226
                 });
227
              } catch (e) {
                 if (callback) { callback(result); }
229
                 resolve(result);
230
231
232
          });
233
        });
234
      }
236
      exports.inetLatency = inetLatency;
```