

```
iax2
ipmi
kademlia
kerberos
Idap
mms
```

```
J /
            #IIIT2C
 58
            self.spnopt = {}
 59
            self.default_max_buffer_size = 0xffdf
 60
 61
          # Read a SMB packet from the socket
 62
          def smb_recv
 63
 64
 65
            data = socket.timed_read(4, self.read_timeout)
            if (data.nil? or data.length < 4)</pre>
 66
              raise XCEPT::NoReply
 67
 68
 69
 70
            recv_len = data[2,2].unpack('n')[0]
 71
            if (recv_len == 0)
 72
              return data
 73
            end
 74
 75
            recv_len += 4
 76
 77
            while (data.length != recv_len)
              buff = ''
 78
 79
 80
              begin
                 buff << self.socket.timed_read(recv_len - data.length, self.read_timeout)</pre>
 81
              rescue Timeout::Error
 82
 83
              rescue
                raise XCEPT::ReadPacket
 84
 85
 86
 87
              if (buff.nil? or buff.length == 0)
                 raise XCEPT::ReadPacket
 88
 89
              end
 90
 91
              data << buff
 92
            end
 93
 94
            #signing
 95
            if self.require_signing && self.signing_key != ''
              if self.verify_signature
 96
 97
                 raise XCEPT::IncorrectSigningError if not CRYPT::is_signature_correct?(self.sig
 98
 99
              self.sequence_counter += 1
100
            end
101
            return data
102
103
104
105
106
107
          # Send a SMB packet down the socket
          def smb_send(data, evasion_level=0)
108
            # evasion_level is ignored, since real evasion happens
109
            # in the actual socket layer
110
111
            size = 0
112
113
            wait = 0
114
115
            #signing
            if self.require_signing && self.signing_key != ''
116
117
              data = CRYPT::sign_smb_packet(self.signing_key, self.sequence_counter, data)
118
              self.sequence_counter += 1
```

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```
2030
                   end
2031
                   $stderr.puts [e, e.get_error(e.error_code), search_path]
2032
2033
2034
                   raise e
2035
                 end
2036
               end
2037
2038
             end
2039
2040
             files.uniq
2041
2042
2043
           # Creates a new directory on the mounted tree
           def create_directory(name)
2044
2045
             parm = [0].pack('V') + name + "\x00"
2046
             resp = trans2(CONST::TRANS2_CREATE_DIRECTORY, parm, '')
2047
             resp
2048
           end
2049
2050
2051
           # Send SMB echo request
2052 🗸
           def echo(do_recv = true)
2053
             pkt = CONST::SMB_ECHO_RES_PKT.make_struct
2054
2055
             self.smb_defaults(pkt['Payload']['SMB'])
2056
2057
             pkt['Payload']['SMB'].v['Command'] = CONST::SMB_COM_ECHO
2058
             pkt['Payload']['SMB'].v['Flags1'] = 18
2059
             if self.require_signing
               pkt['Payload']['SMB'].v['Flags2'] = 0x2807
2060
2061
2062
               pkt['Payload']['SMB'].v['Flags2'] = 0x2801
2063
             end
2064
             pkt['Payload']['SMB'].v['TreeID'] = self.last_tree_id || 0xffff
2065
             pkt['Payload']['SMB'].v['WordCount'] = 1
2066
             pkt['Payload'].v['EchoCount'] = 1
2067
2068
2069
             ret = self.smb_send(pkt.to_s)
2070
             return ret if not do_recv
2071
             return self.smb recv parse(CONST::SMB COM ECHO)
```

```
2072
           end
2073
2074
2075
         # public read/write methods
2076
           attr_accessor :native_os, :native_lm, :encrypt_passwords, :extended_security, :read_t
2077
           attr_accessor :verify_signature, :use_ntlmv2, :usentlm2_session, :send_lm, :use_lanma
2078
           attr_accessor :system_time, :system_zone
2079
           attr_accessor :spnopt
2080
           attr_accessor :default_max_buffer_size
2081
2082
         # public read methods
2083
           attr_reader
                                 :dialect, :session_id, :challenge_key, :peer_native_lm, :peer_n
2084
           attr_reader
                                 :default_domain, :default_name, :auth_user, :auth_user_id
           attr reader
2085
                                 :multiplex_id, :last_tree_id, :last_file_id, :process_id, :last
2086
           attr_reader
                                 :dns_host_name, :dns_domain_name
2087
           attr_reader
                                 :security_mode, :server_guid
2088
           attr_reader
                                 :sequence_counter,:signing_key, :require_signing, :peer_require
2089
2090
         # private write methods
2091
           attr_writer
                                 :dialect, :session_id, :challenge_key, :peer_native_lm, :peer_n
2092
           attr_writer
                                 :default_domain, :default_name, :auth_user, :auth_user_id
           attr writer
                                 :dns host name, :dns domain name
2093
2094
           attr_writer
                                 :multiplex_id, :last_tree_id, :last_file_id, :process_id, :last
                                 :security mode, :server guid
2095
           attr_writer
2096
           attr_writer
                                 :sequence_counter,:signing_key, :require_signing, :peer_require
2097
2098
           attr_accessor :socket
2099
2100
         end
2101
         end
2102
         end
2103
         end
```