

Check a DANE TLS Service

This application checks a DANE TLS Service. It connects to the specified TLS service and then attempts to authenticate its TLS server certificate according to its corresponding DANE TLSA records in the DNS.

Port: 5222

Domain name: babai.ru

STARTTLS application: xmpp-client

DANE-EE Name Checks: Yes

DANE Authentication Successful.

Checking Transcript:

```

TLSA records found: 1
TLSA: 3 1 1 5079a8929a1782bc2626ec8718628152ca4c15bc4e49b94aca377be148b5e108

Connecting to IPv6 address: 2a07:ac80:0:4b::2 port 5222
send: <?xml version='1.0'?><stream:stream to='babai.ru' version='1.0' xml:lang='en' xmlns='jabber:client' xmlns:stream='http://etherx.jabber.org/streams' xmlns:features='urn:ietf:params:xml:ns:xmpp-features' xmlns:mechanisms='urn:ietf:params:xml:ns:xmpp-tls'><starttls xmlns='urn:ietf:params:xml:ns:xmpp-tls'><required/></starttls></stream:stream>
recv: <?xml version='1.0' encoding='UTF-8'?><stream:stream xmlns:stream='http://etherx.jabber.org/streams' xmlns='jabber:client' xmlns:features='urn:ietf:params:xml:ns:xmpp-features' xmlns:mechanisms='urn:ietf:params:xml:ns:xmpp-tls'><starttls xmlns='urn:ietf:params:xml:ns:xmpp-tls'><required/></starttls></stream:stream>
send: <starttls xmlns='urn:ietf:params:xml:ns:xmpp-tls'><required/></starttls></stream:stream>
recv: <starttls xmlns='urn:ietf:params:xml:ns:xmpp-tls'><required/></starttls></stream:stream>
send: <proceed xmlns='urn:ietf:params:xml:ns:xmpp-tls'></proceed>
recv: <proceed xmlns='urn:ietf:params:xml:ns:xmpp-tls'></proceed>
TLSv1.2 handshake succeeded.
Cipher: TLSv1.2 ECDHE-RSA-AES128-GCM-SHA256
Peer Certificate chain:
 0 Subject CN: www.babai.ru
  Issuer CN: Thawte TLS RSA CA G1
 1 Subject CN: Thawte TLS RSA CA G1
  Issuer CN: DigiCert Global Root G2
 SAN dNSName: www.babai.ru
 SAN dNSName: babai.ru
DANE TLSA 3 1 1 [5079a8929a17...] matched EE certificate at depth 0
Verified peername: babai.ru
Validated Certificate chain:
 0 Subject CN: www.babai.ru
  Issuer CN: Thawte TLS RSA CA G1
 SAN dNSName: www.babai.ru
 SAN dNSName: babai.ru

Connecting to IPv4 address: 185.158.115.215 port 5222
send: <?xml version='1.0'?><stream:stream to='babai.ru' version='1.0' xml:lang='en' xmlns='jabber:client' xmlns:stream='http://etherx.jabber.org/streams' xmlns:features='urn:ietf:params:xml:ns:xmpp-features' xmlns:mechanisms='urn:ietf:params:xml:ns:xmpp-tls'><starttls xmlns='urn:ietf:params:xml:ns:xmpp-tls'><required/></starttls></stream:stream>
recv: <?xml version='1.0' encoding='UTF-8'?><stream:stream xmlns:stream='http://etherx.jabber.org/streams' xmlns='jabber:client' xmlns:features='urn:ietf:params:xml:ns:xmpp-features' xmlns:mechanisms='urn:ietf:params:xml:ns:xmpp-tls'><starttls xmlns='urn:ietf:params:xml:ns:xmpp-tls'><required/></starttls></stream:stream>
send: <starttls xmlns='urn:ietf:params:xml:ns:xmpp-tls'><required/></starttls></stream:stream>
recv: <starttls xmlns='urn:ietf:params:xml:ns:xmpp-tls'><required/></starttls></stream:stream>
send: <proceed xmlns='urn:ietf:params:xml:ns:xmpp-tls'></proceed>
recv: <proceed xmlns='urn:ietf:params:xml:ns:xmpp-tls'></proceed>
TLSv1.2 handshake succeeded.
Cipher: TLSv1.2 ECDHE-RSA-AES128-GCM-SHA256
Peer Certificate chain:
 0 Subject CN: www.babai.ru
  Issuer CN: Thawte TLS RSA CA G1
 1 Subject CN: Thawte TLS RSA CA G1
  Issuer CN: DigiCert Global Root G2
 SAN dNSName: www.babai.ru
 SAN dNSName: babai.ru
DANE TLSA 3 1 1 [5079a8929a17...] matched EE certificate at depth 0
Verified peername: babai.ru
Validated Certificate chain:
 0 Subject CN: www.babai.ru
  Issuer CN: Thawte TLS RSA CA G1
 SAN dNSName: www.babai.ru
 SAN dNSName: babai.ru

[0] Authentication succeeded for all (2) peers.

```

[Check another DANE service?](#)

Other DANE Tools

- [Check a DANE TLS SMTP Service](#)
- [Generate a DNS TLSA record](#)
- [Generate a DNS OPENPGPKEY record](#)
- [DANE TLS Test Sites](#)

References

- [RFC 6698: DANE and TLSA record specification](#), August 2012
- [RFC 7671: DANE Protocol: Updates and Operational Guidance](#)
- [RFC 7672: SMTP Security via opportunistic DANE TLS](#)
- [DNSSEC and Certificates](#); October 19 2012
- [How DANE Strengthens Security for TLS, S/MIME, and Other Applications](#); November 2015
- [Shumon Huque's website](#)