

WebRTC: Коммуникации в реальном времени.

Обзор и демонстрация возможностей WebRTC - работа с видео и peer-to-peer соединения.

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WebRTC API's

MediaStream

```
navigator.getUserMedia(constraints, function (stream) {  
    // handle stream  
}, function (err) {  
    // handle error  
});
```

PeerConnection

```
var pc = new RTCPeerConnection();  
  
// Signalling related API  
pc.createOffer(function (offer) { /* process offer */ });  
pc.createAnswer(function (answer) { /* process answer */ });  
pc.setLocalDescription(description, successCallback, errorCallback);  
pc.setRemoteDescription(description, successCallback, errorCallback);  
pc.onicecandidate = function (event) { /* process candidate */ };  
  
// Media API  
pc.addStream(stream);  
pc.onaddstream = function (stream) { /* process stream */ };
```

MediaStream Demo

Hello, World! (<https://github.com/DavidKlassen/webrtc-demos/tree/master/hello-world/>)

Canvas (<https://github.com/DavidKlassen/webrtc-demos/tree/master/canvas/>)

CSS (<https://github.com/DavidKlassen/webrtc-demos/tree/master/css/>)

PeerConnection и его протоколы

SDP (Session Description Protocol)

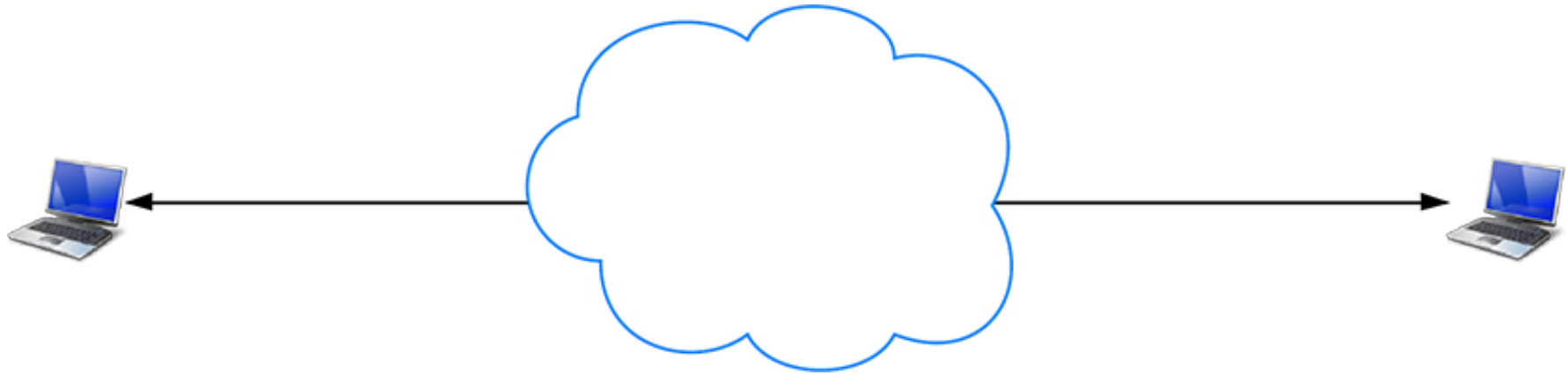
RTP (Real-time Transport Protocol)

RTCP (RTP Control Protocol)

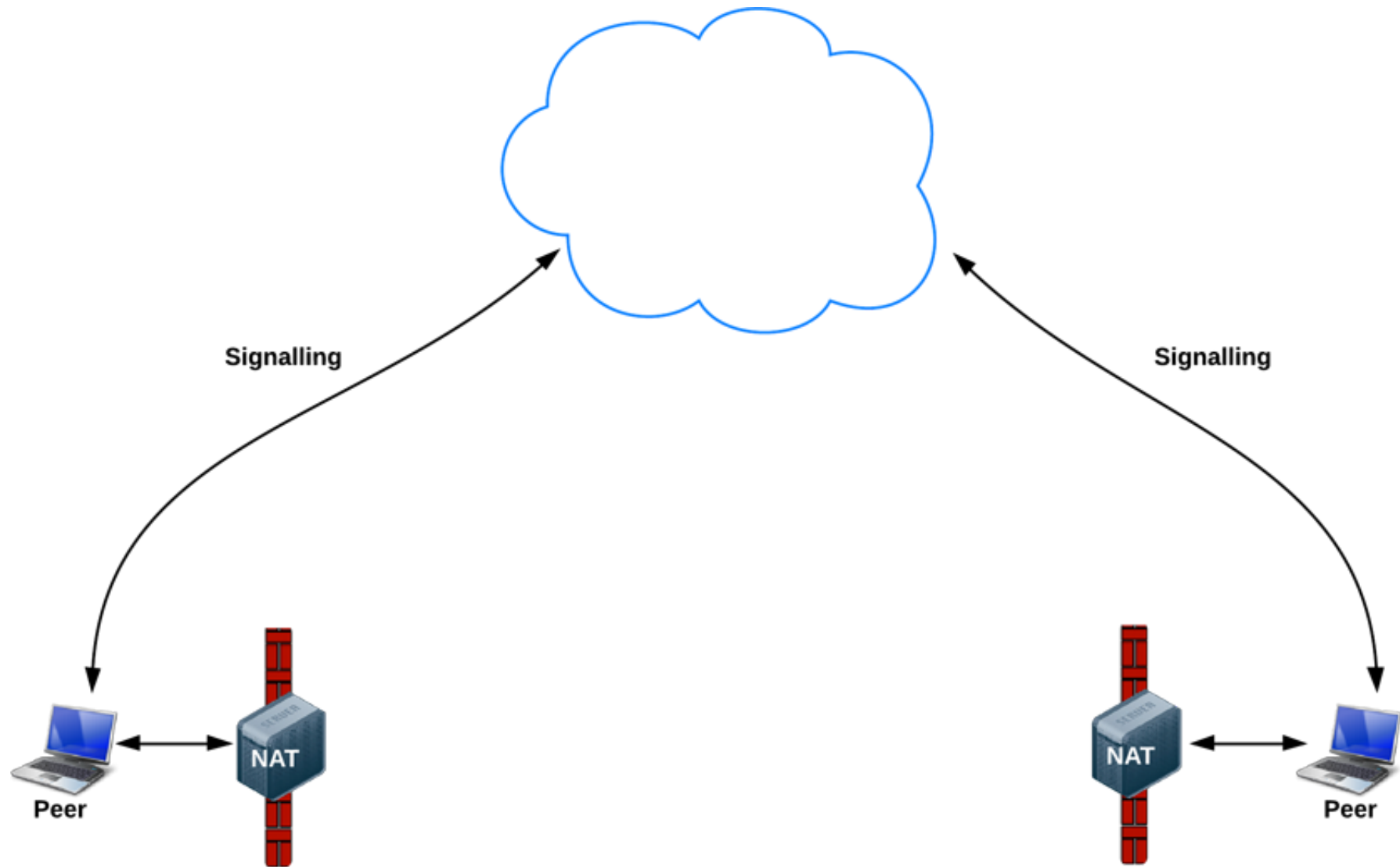
PeerConnection Demo

Hello, World! (<https://github.com/DavidKlassen/webrtc-demos/tree/master/peer-to-peer/>)

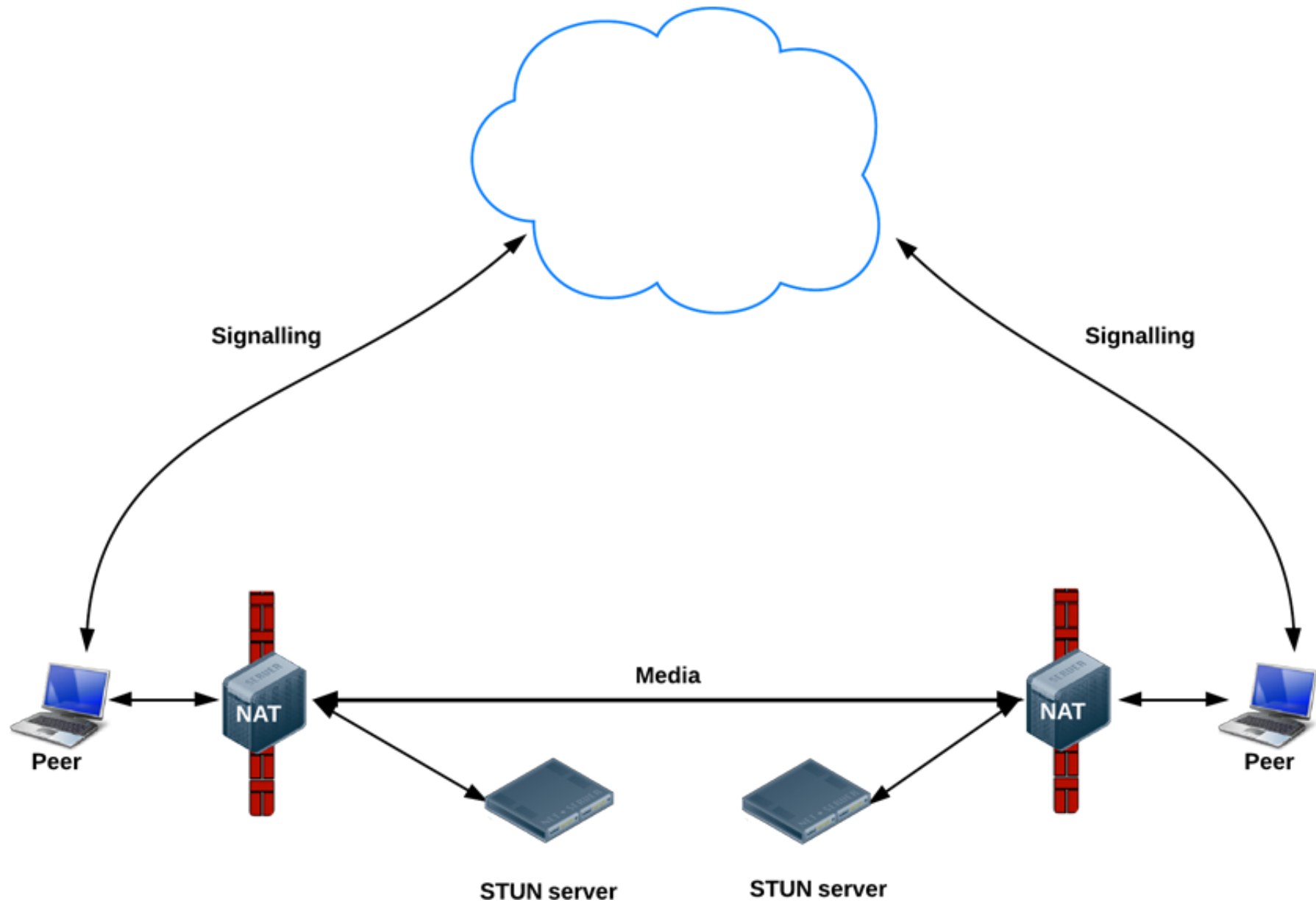
Что такое peer-to-peer?



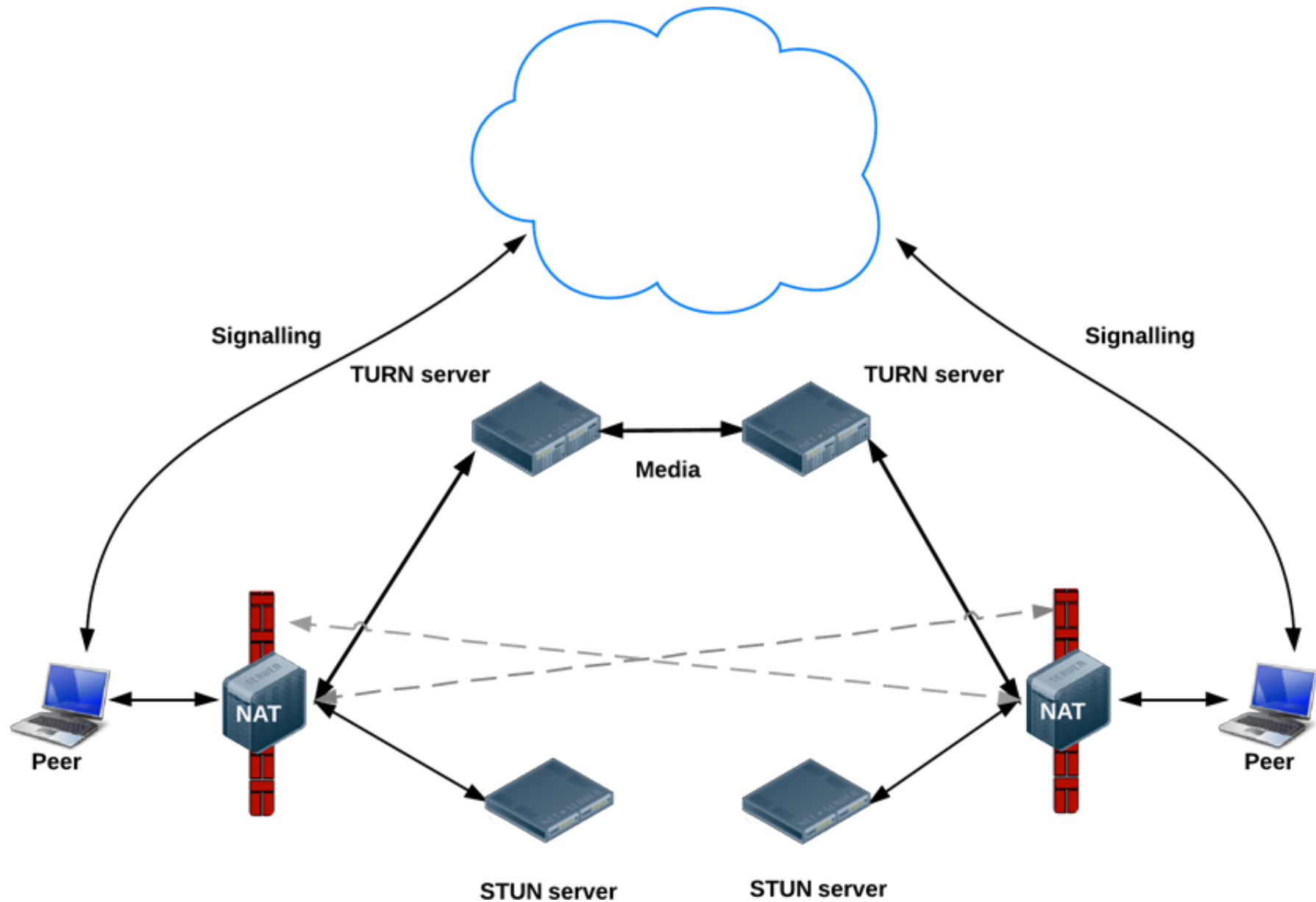
Реальность



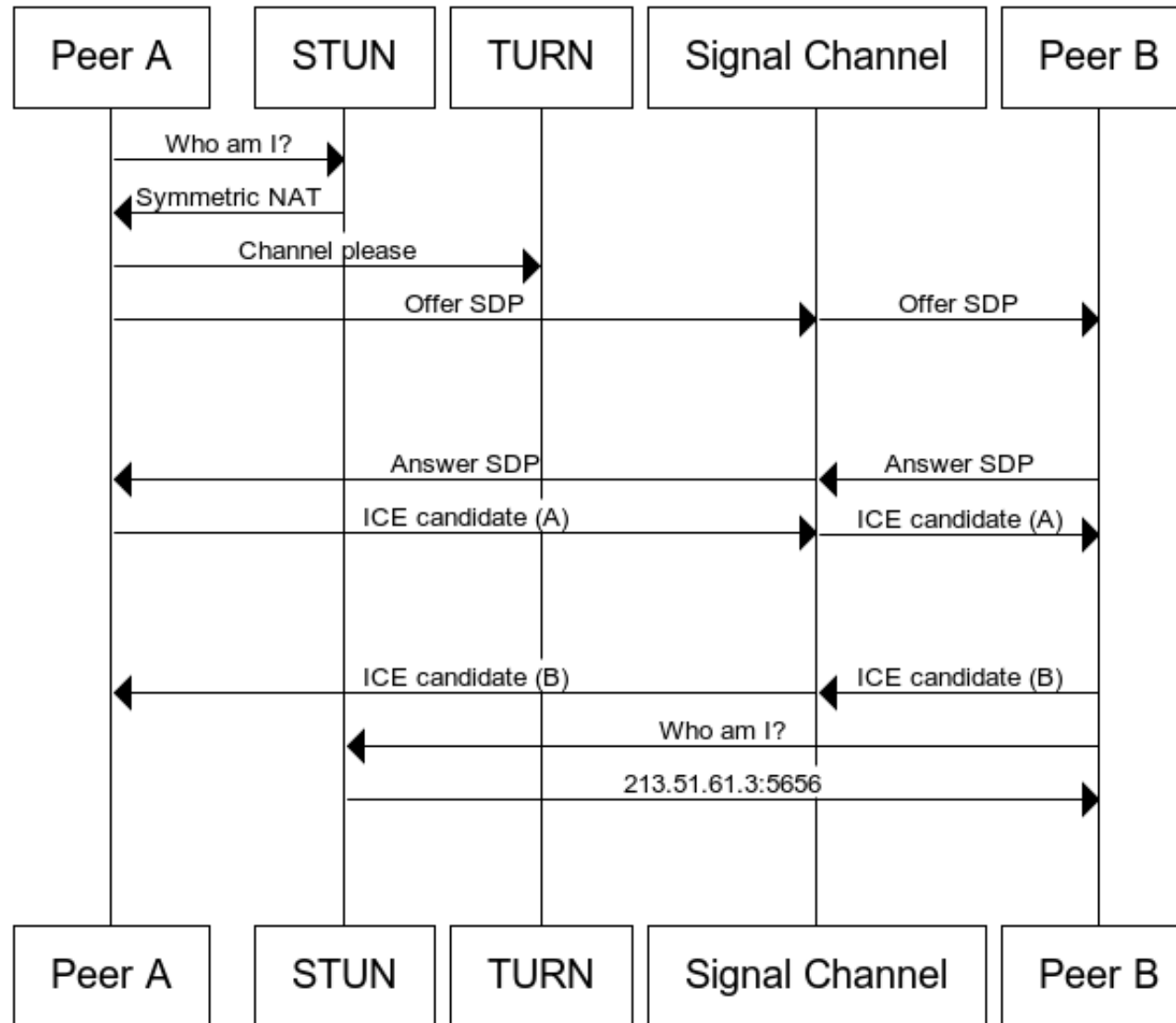
STUN (Session Traversal Utilities for NAT)



TURN (Traversal Using Relays around NAT)



Signalling



Потрогаем все это руками

Hello, World! (<https://github.com/DavidKlassen/webrtc-demos/tree/master/signaling>)

Что еще?

DataChannel

Media Servers (kurento)

Thank you

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