SER 321 B Session

SI Session

Thursday March 28th 2024

7:00 pm - 8:00 pm MST

Agenda

Socket Communication

Properties

Steps

Diagram

SI Session Expectations

Thanks for coming to the **SER 321** SI session. We have a packed agenda and we are going to try to get through as many of our planned example problems as possible. This session will be recorded and shared with others.

- If after this you want to see additional examples, please visit the drop-in tutoring center.
- We will post the link in the chat now and at the end of the session.
 - tutoring.asu.edu
- Please keep in mind we are recording this session and it will be made available for you to review 24-48 hours after this session concludes.
- Finally, please be respectful to each other during the session.

Interact with us:

Zoom Features



Zoom Chat

- Use the chat feature to interact with the presenter and respond to presenter's questions.
- Annotations are encouraged

SER 321 Assignment 3 Helper Doc



Helper Document is super helpful!

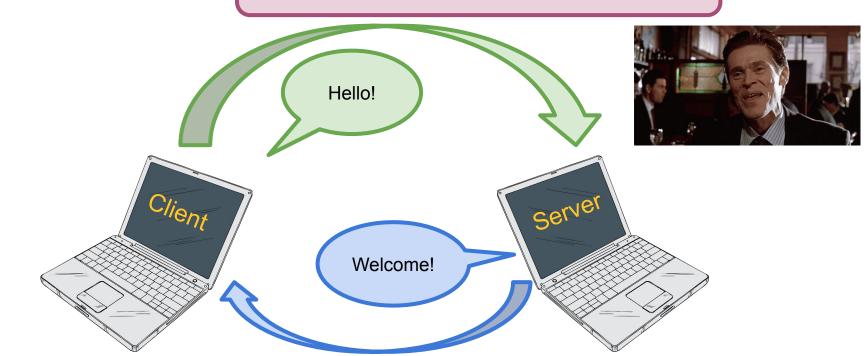
Thank you UGTA Paul Heaton! 👏





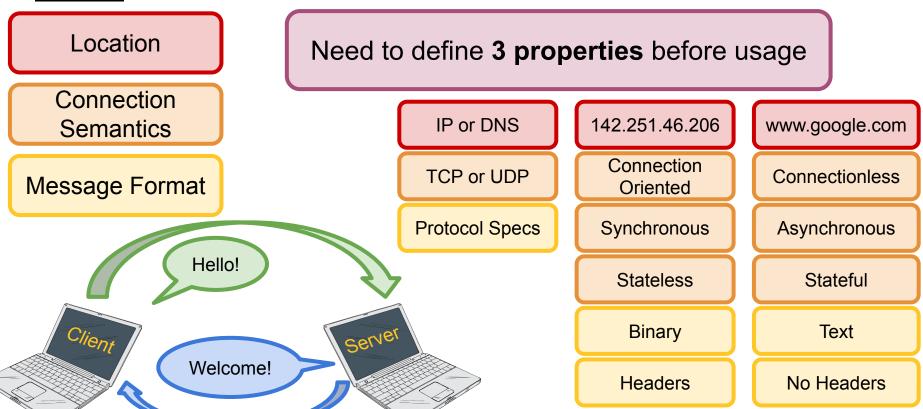
Sockets allow our client and server to communicate!

Enables a client/server conversation



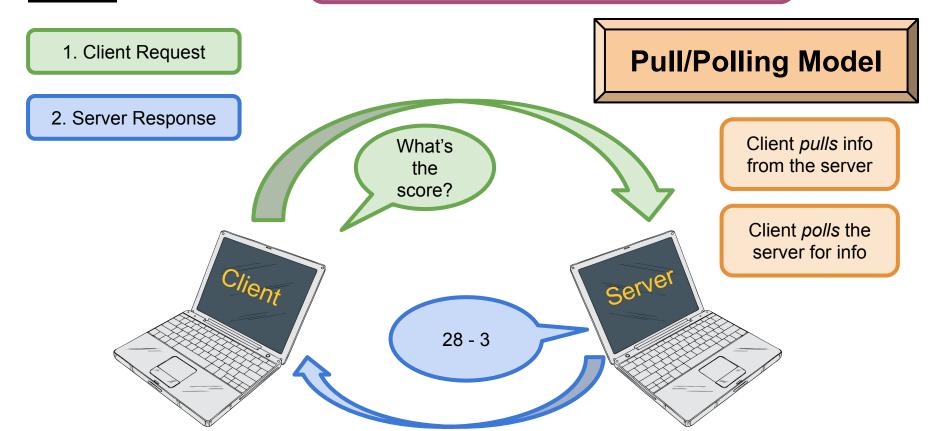
SER 321 Sockets!

Sockets allow our client and server to communicate!



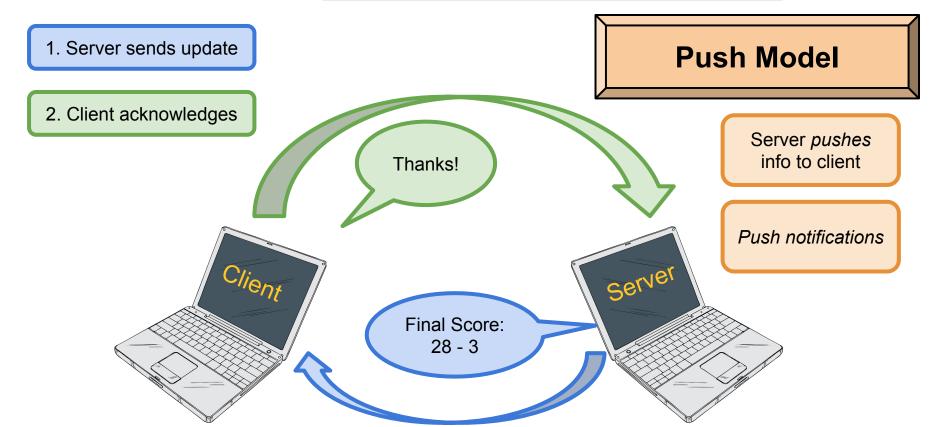
SER 321 Sockets!

Two Main Conversation Models



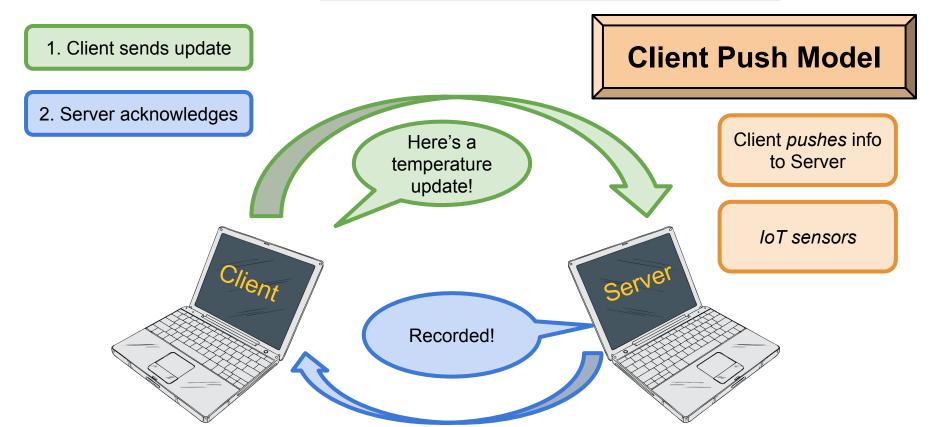


Two Main Conversation Models





Two Main Conversation Models



SER 321 Client Socket

Steps for the Client Socket

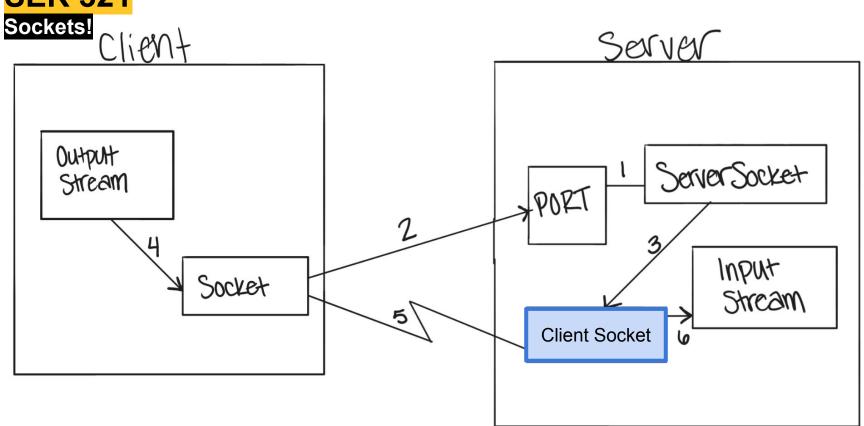
1.
2.
3.
4.
5.
6.
7.
8.

SER 321 Server Socket

Steps for the Server Socket

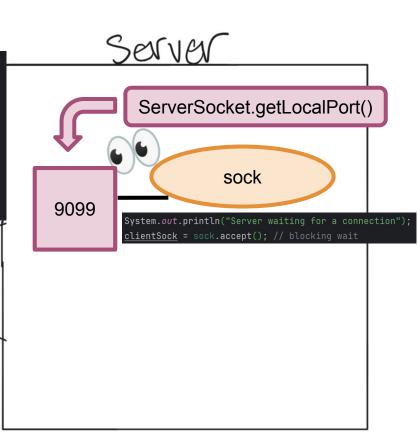
2. 3. 4. 5. 6. 8. 9.

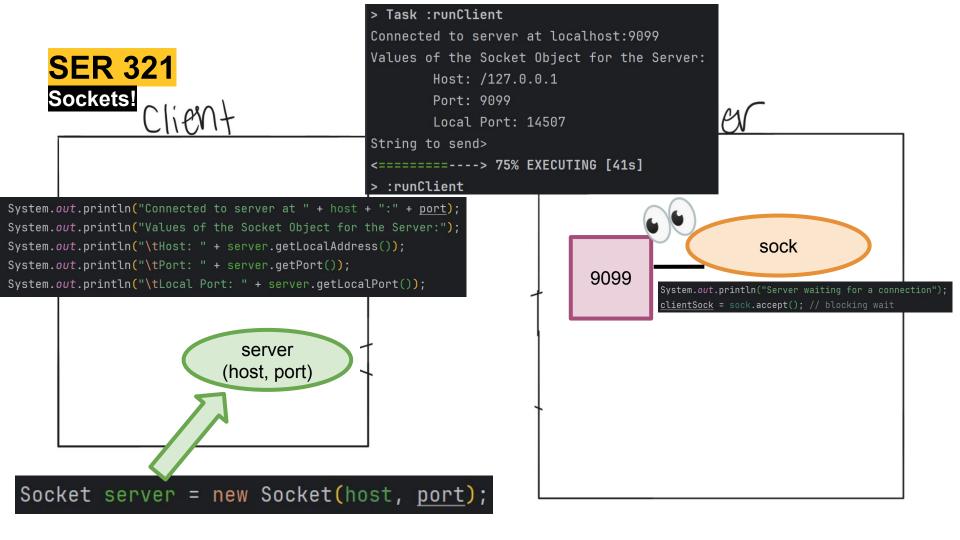
SER 321

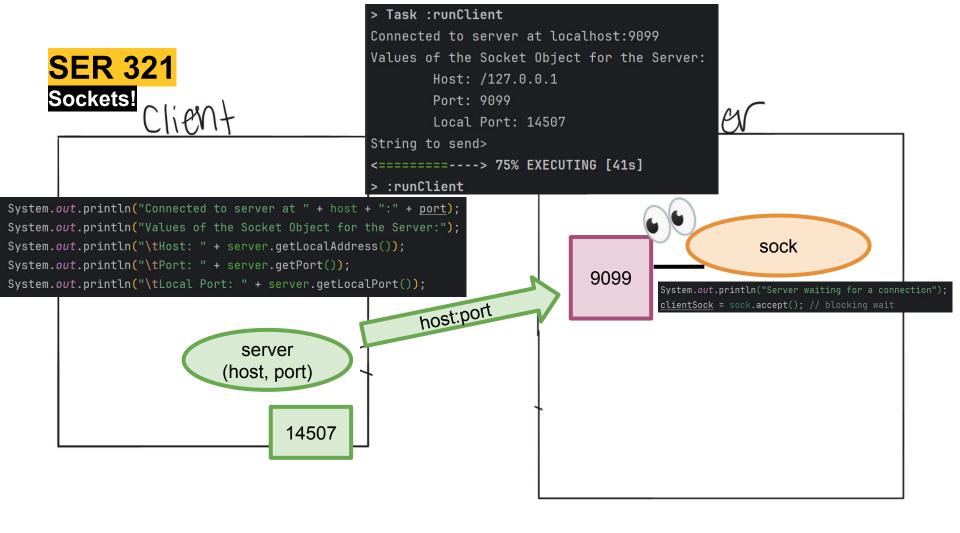


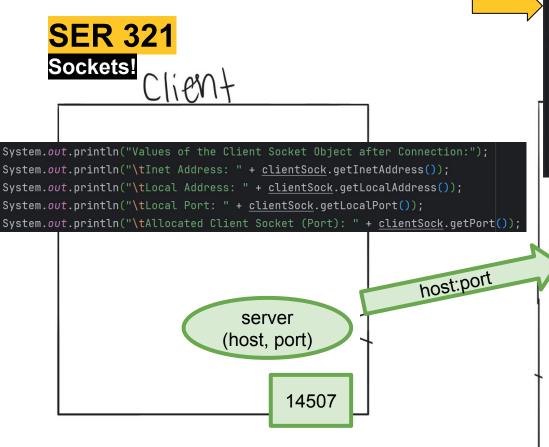
SER 321 Socketsl

```
ServerSocket sock = new ServerSocket(port);
System.out.println("Server ready for connections");
System.out.println("Server is listening on port: " + port);
System.out.println("----");
System.out.println("Values of the ServerSocket Object:");
System.out.println("Inet Address: " + sock.getInetAddress());
System.out.println("Local Port: " + sock.getLocalPort());
    > Task :runServer
    Server ready for connections
    Server is listening on port: 9099
    Values of the ServerSocket Object:
    Inet Address: 0.0.0.0/0.0.0.0
    Local Port: 9099
    Server waiting for a connection
```

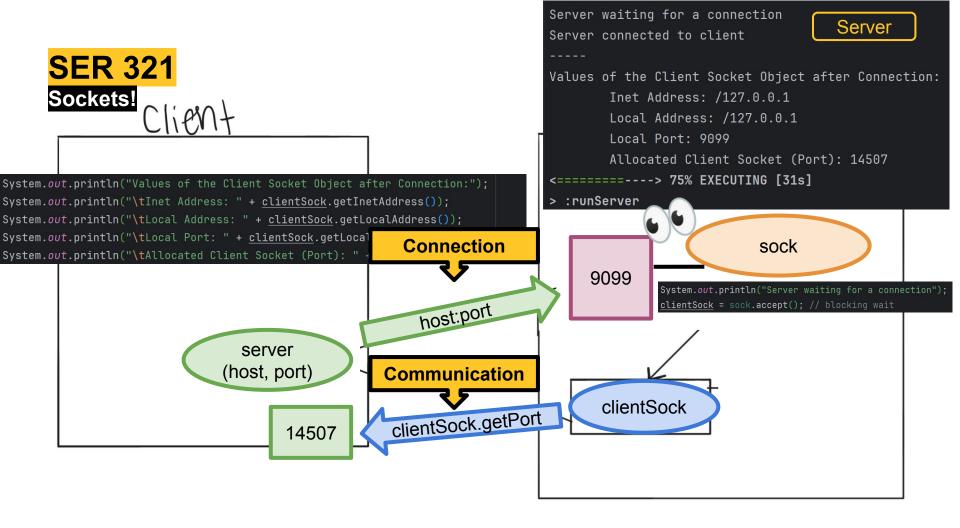








Server waiting for a connection Server Server connected to client Values of the Client Socket Object after Connection: Inet Address: /127.0.0.1 Local Address: /127.0.0.1 Local Port: 9099 Allocated Client Socket (Port): 14507 <========---> 75% EXECUTING [31s] > :runServer sock 9099 System.out.println("Server waiting for a connection"); clientSock = sock.accept(); // blocking wait



SER 321 Sockets!

> Task :runServer

Local Port: 9099

> :runServer

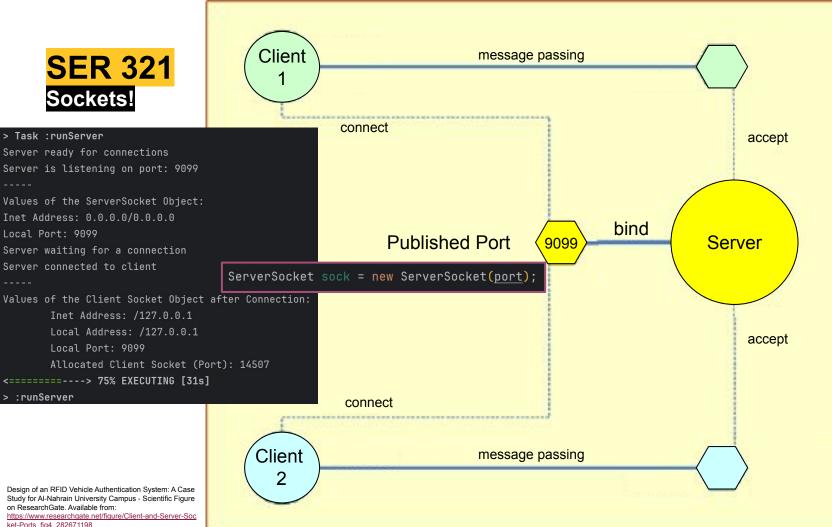
Server ready for connections

Inet Address: 0.0.0.0/0.0.0.0

Server waiting for a connection Server connected to client

Local Port: 9099

Inet Address: /127.0.0.1 Local Address: /127.0.0.1



Design of an RFID Vehicle Authentication System: A Case Study for Al-Nahrain University Campus - Scientific Figure on ResearchGate. Available from:

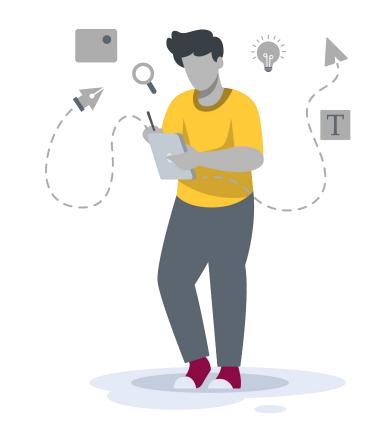
https://www.researchgate.net/figure/Client-and-Server-Soc

SER 321 Scratch Space

Questions?

Survey:

http://bit.ly/ASN2324



Upcoming Events

SI Sessions:

- Sunday, March 31st at 7:00 pm MST
- Monday, April 1st at 7:00 pm MST
- Thursday, April 4th at 7:00 pm MST

Review Sessions:

TBD

More Questions? Check out our other resources!

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Access your appointment link

Access the drop-in queue

Schedule Appointment



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View digital resources

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- 2. Click on 'View the tutoring schedule' to see when tutors are available for specific courses.

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Select a subject
- Any -







Don't forget to check out the Online Study Hub for additional resources!

Expanded Writing Support Available

Including Grammarly for Education, at no cost!





tutoring.asu.edu/expanded-writing-support

^{*}Available slots for this pilot are limited

Additional Resources

- Course Repo
- Gradle Documentation
- GitHub SSH Help
- Linux Man Pages
- OSI Interactive
- MDN HTTP Docs
 - Requests
 - Responses
- JSON Guide
- org.json Docs
- javax.swing package API
- Swing Tutorials