SER 321 C Session

SI Session

Thursday, May 23rd 2024

6:00 pm - 7:00 pm MST

Agenda

OSI Model

Lower Layers

Upper Layers

HTTP

JSON

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

Check out the recording for the solution!

SER 321
OSI Model

Unit

Layer

What we are *really* talking about

Data	Application	
Data	Presentation	
Data	Session	
Segment	Transport	
Packet	Network	
Frame	Data Link	
Bits	Physical	

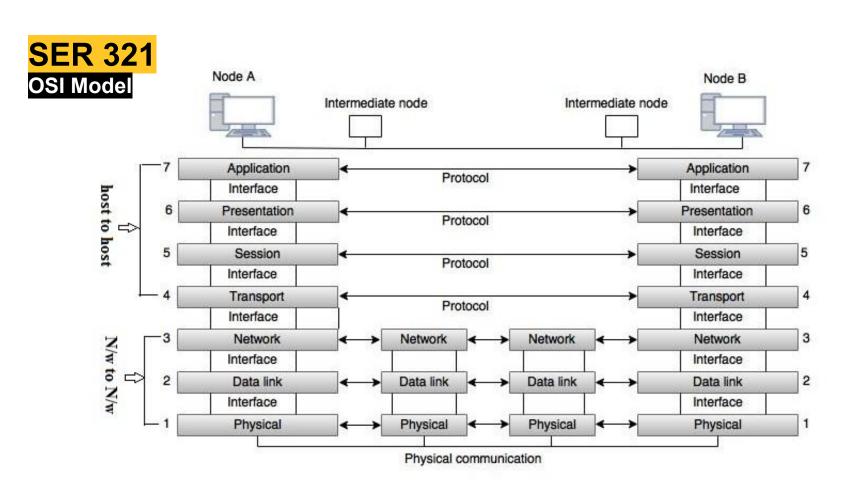


Fig: OSI Model



Port

128.148.32.110:8080



Subnet

128.148.32.110:8080



Network

128.148.32.110:8080



Host

128.148.32.110:8080



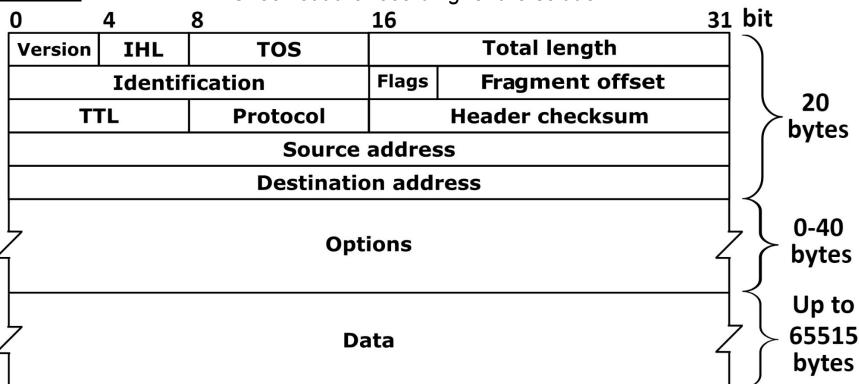
Check out the recording for an excellent discussion!

TCP	UDP

SER 321

What type of header is this?

Headers





TCP or UDP Header?

Offs	ets	0							1	1								2							3								
Octet	Bit	0	1	2	3	4	5	6 7		0	1	2	3	4	5	6	7	0 1 2 3 4 5 6 7 0 1 2 3 4 5 6								7							
0	0	Source port Destination										on port																					
4	32	Sequence number																															
8	64	Acknowledgment number (if ACK set)																															
12	96	Data offset Reserved 0000 C W C R C S S Y I N N W C R C S S Y I N N W C R C S S S Y I N N W C R C S S S Y I N N																															
16	128	Checksum Urgent pointer (if URG set)																															
20	160																																
:	:		Options (if data offset > 5. Padded at the end with "0" bits if necessary.)																														
56	448																																

	Check	out the	recording	for the	solution!
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Unit

Layer

What we are *really* talking about

Data	Application	
Data	Presentation	
Data	Session	
Segment	Transport	TCP/UDP
Packet	Network	IP address, routing and delivery
Frame	Data Link	LLC, MAC, data transmission in LAN
Bits	Physical	Signal, Binary transmission

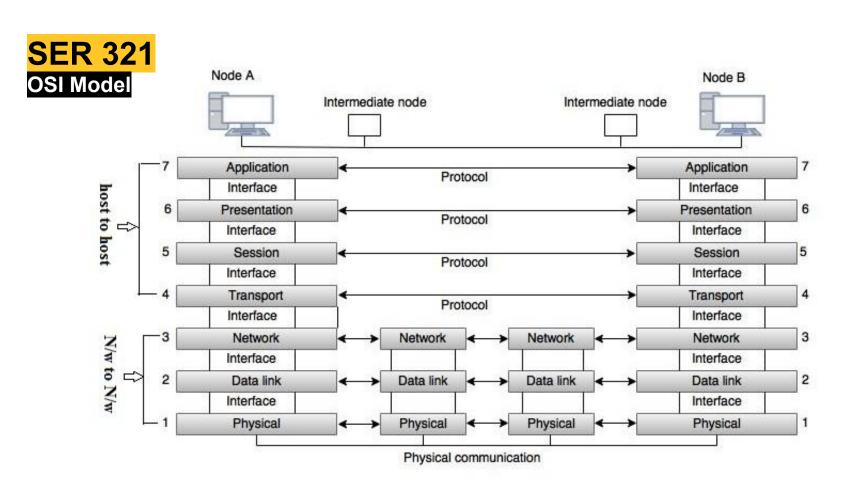


Fig: OSI Model



OR

Stateless

Synchronous

Stateful

OR

Asynchronous



Query

https://www.google.com/search?q=asu



Protocol

https://www.google.com/search?q=asu



Path

https://www.google.com/search?q=asu



Host

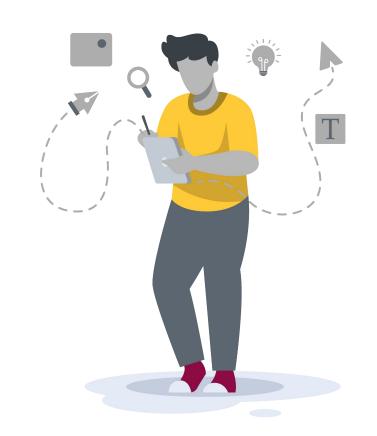
https://www.google.com/search?q=asu

SER 321 Scratch Space

Questions?

Survey:

http://bit.ly/ASN2324



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Upcoming Events

SI Sessions:

- Sunday, May 26th at 6:00 pm MST CANCELLED (Closed for Memorial Day)
- Monday, May 27th at 6:00 pm MST CANCELLED (Closed for Memorial Day)
- Thursday, May 30th at 6:00 pm MST

Review Sessions:

TBD

More Questions? Check out our other resources!

tutoring.asu.edu



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Academic Support

Academic Support Network (ASN) provides a variety of free services in-person and online to help currently enrolled ASU students succeed academically

Services



Subject Area Tutoring

Need in-person or online help with math, science, business, or engineering courses? Just hop into our Zoom room or drop into a center for small group tutoring. We'll take it from there.

Need help using Zoom?

View the tutoring schedule

View digital resources

Go to Zoom



Writing Tutoring

Need help with undergraduate or graduate writing assignments? Schedule an in-person or online appointment, access your appointment link, or wait in our drop-in

Access your appointment link

Access the drop-in queue

Schedule Appointment



Online Study Hub

Join our online peer communities to connect with your fellow Sun Devils. Engage with our tools to search our bank of resources. videos, and previously asked questions. Or, ask our Tutorbot questions.

Now supporting courses in Math. Science. Business, Engineering, and Writing.

Online Study Hub

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

More Questions? Check out our other resources!

tutoring.asu.edu/online-study-hub

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