











e <b>tworl</b> mmon Po	king Po	orts
[	Port Number	Application
[	22	ssh - Secure Shell
	23	Telnet (unsecure)
1	25	SMTP - Simple Mail Transport Protocol (unsecure)
1	80	HTTP - HyperText Transport Protocol (unsecure)
Ī	123	NTP - Network Time Protocol
Ī	443	HTTPS - HTTP Secure
Ī	587	SMTP Secure
-	3306	MySQL
-	25565	Minecraft
L		











	•	server.py — ct346	
19		\$ runsh 🔶 server.py 🗵	$\triangleright$ $\sim$ $\square$ $\cdots$
2	<ul> <li>cs346</li> <li>f run.sh</li> </ul>	<pre>     server.pp &gt;     fram socket import +     import logging </pre>	Reconstruction of the second s
8	server.py	3 4 logging.basicConfig(level=logging.INFO, format=*%(asctime)s %(levelname)s %(message)s 5 5 loging.basicConfig(level=logging.INFO, format=*%(asctime)s %(levelname)s %(message)s 5 5 loging.basicConfig(level=logging.INFO, format=*%(asctime)s %(levelname)s %(message)s 5 5 loging.basicConfig(level=logging.INFO, format=*%(asctime)s %(levelname)s %(message)s 5 5 loging.basicConfig(level=logging.INFO, format=*%(asctime)s %(levelname)s %(message)s 5 loging.basicConfig(level=logging.INFO, format=*%(asctime)s %(levelname)s %(levelname)	•
\$		<pre>6 logging.info('Starting Server') 7  8 server_socket = socket() 9 server_addr = (*0.6.0*, 80)</pre>	
8		<pre>9 server_addr = (*0.8.0.0*, 80) 10 server_socket.bind(server_addr) 11 server_socket.listen(5)</pre>	
		<pre>22 while True: 3 while True: 4 (com, client_addr) = server_socket.accept() 5 with com: 5 logging.info(*Connection from {client_addr}*) 7 while True: 5 context = the second second</pre>	
		15     dota : con.recv(1024)       19     if not data:       20     break       21     logging.info(fata)       22     logging.info(formettion Closed*)	
			[≥ bash +~ [] ∰ ^ ×
		0 ~/c3366 \$ ./run.dh + dochar run -1 ~rm ++nmme pythom_sockat -p 8888:80 +v /Ukers/maid/c5346/:/kpp pythom:3.9-alpine pytho 1812-09-11 01:45:07.436 IMFO Starting Server	n /app/server.py
. 8	> OUTLINE		



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baah +~ [] 會 ∧ ×	
p/server.py	

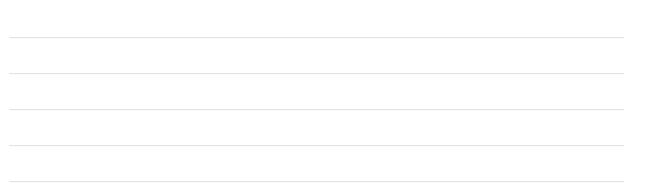
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C EXPLORER	··· \$ run.sh	server.py ×	D -	~ 🗆 ·
> OPEN EDITORS > C5346 \$ run.sh \$ server.py	2 impor 3	socket import * t logging		
₽ 42 12	5 6 loggi 7 8 serve 9 serve 10 serve	ng.basitConfig(level-logging.IN ng.info("Starting Server") r_socket = socket() r_socket = ("8.8.8.8", 88) r_socket.bind(server_addr) r_socket.bind(server_addr) r_socket.listen(5)	e. fee Create a server_addr tuple 0.0.0.0 indicates we want to listen on all network interfaces on the host	
Д	13 while 14 (	conn, client_addr) = server_soc	80 is our port	
<u>نه</u>	15 a 16 17 18 19 20 21 22	<pre>ith conn: logging.info(f'Connection fr while True:</pre>		
		un.sh	JUPYTER bash +~ [] 8:80 -v /Users/mask/cc346/:/app python:3.0-alpine python /app/server.py	â ^

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Bind the socket we created to the local server_addr.(0) Bind the socket we created to the local server_addr.we	2
13     while True:       14     (com, client_addr) = server_socket_accept()	- ]
<pre>bit loging.info(f'Connection from {client_addz}') info(f'Connection from {client_addz}') if if</pre>	
19 if not deta:     20 iPros     21 iProvide tail     22 iProvidetaila tail     22 iProvidetaila tail     22 iProvidetaiProvideta	
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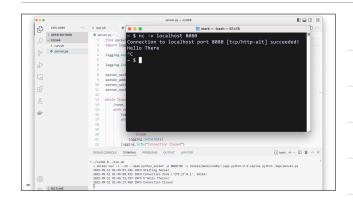


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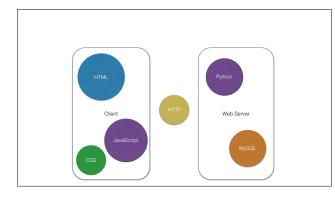
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> OPEN EDITORS > CS346 S runsh & eserver.py 	<ul> <li>Bernorgy 2- form South Hearts + term T triggter term T triggter term t triggter, the (final triggter, the ( term t, exten) = generation, and term t triggter, the (final triggter, the ( term t, exten) = generation, and term t triggter, the (final triggter) = the triggter server, extent = seate() server, extent = server, extent = server, extent = server, extent = server, extent</li></ul>	University of the second secon
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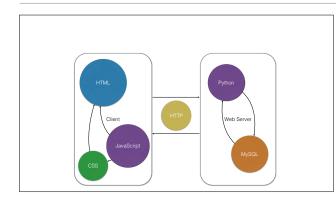
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9 8	<ul> <li>&gt; C5346</li> <li>\$ run.sh</li> <li>&gt; \$ server.py</li> </ul>	3 4 logging.basicConfig(level=logging.INFO, for	When there is data available on the socket, <b>recv</b> the data	
₽			in <b>1024</b> byte chunks, and log it to the console	
5		9 server_addr = (*0.8.0.0*, 88) 10 server_socket.bind(server_addr) 11 server_socket.listen(5)	The if not data block will	
	7	define the conn. client_addr) = server_socket.acc     dith conn:     logging.info(f*Connection from {cli         nile True:         data = conn.recv(1024)	break out of this while loop when the connection is closed	
		19     if not data:       20     break       21     logging.info(data)       22     logging.info(*Connection Closed*)		
	0	DEBUG CONSCLE TERMINAL PROBLEMS DUTFUT JUPY 0 -/cs246 \$ ./run.sh + docker run -irmname python_socket -p 8080:00 -v 2022-09-11 d1:d3:07,d36 INFO Starting Server	TER Token + - ([]	1 1
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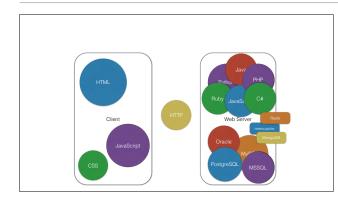




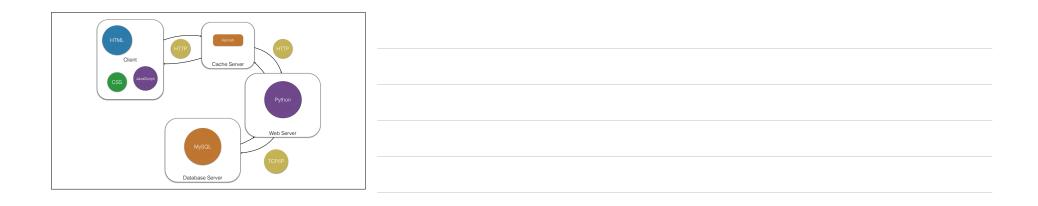


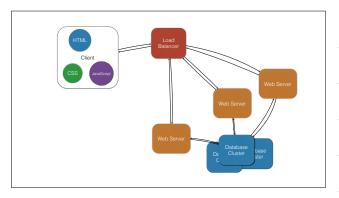




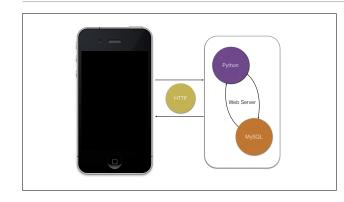








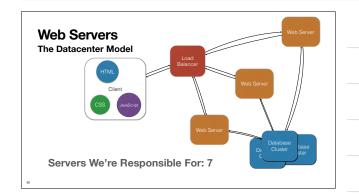














	eb Servers	Managed Container Service
	Load Balancer Service	Web Server Container
	Client	Vieb Sarver Web Sarver
	CSS Januaript	Container
31	Servers We're Responsible	For: 0

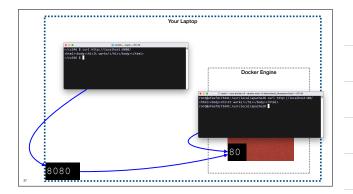
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nginx (pronounced "Engine X")     IIS
• Tomcat
Jetty     Gunicorn

Web Servers Many Different Types	
Apache 2 - httpd     nginx (pronounced "Engine X")	General Purpose HTTP Servers
<ul><li>IIS</li><li>Tomcat</li><li>Jetty</li></ul>	
Gunicorn	

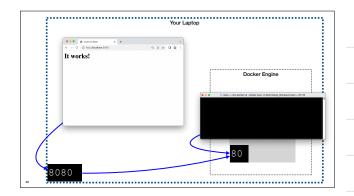


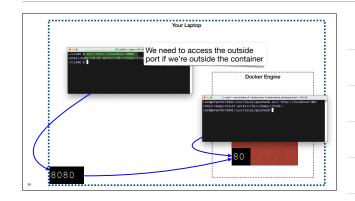




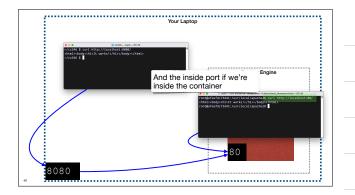






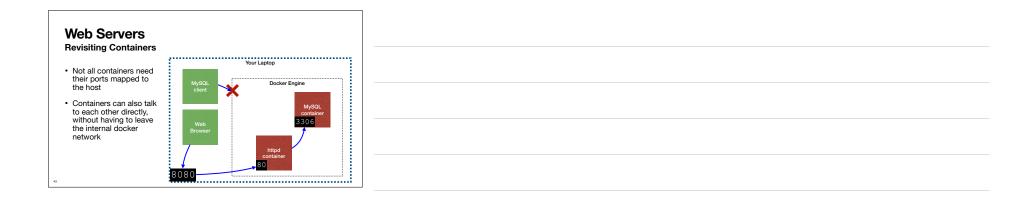












Up Next: Javascript	
Up Next: Javascript!	