

Open vSwitch: Game Show Edition

Open vSwitch	Silicon Valley	TCP/IP	TOS	Faces of SDN	Potpourri
<u>\$100</u>	<u>\$100</u>	<u>\$100</u>	<u>\$100</u>	<u>\$100</u>	<u>\$100</u>
<u>\$200</u>	<u>\$200</u>	<u>\$200</u>	<u>\$200</u>	<u>\$200</u>	<u>\$200</u>
<u>\$300</u>	<u>\$300</u>	<u>\$300</u>	<u>\$300</u>	<u>\$300</u>	<u>\$300</u>
<u>\$400</u>	<u>\$400</u>	<u>\$400</u>	<u>\$400</u>	<u>\$400</u>	<u>\$400</u>
<u>\$500</u>	<u>\$500</u>	<u>\$500</u>	<u>\$500</u>	<u>\$500</u>	<u>\$500</u>

What's At Stake?



Round 1 Rules

- Teams alternate choosing a question.
- First team to buzz in **after question is read** answers:
 - Correct: Wins points.
 - Incorrect: Loses points.
 - Other team may guess, no penalty for being wrong.
- Special **Shell Game** questions:
 - Team that chose question has 60 seconds to complete a specified task from a shell prompt.

Round 2 Rules

Each team gathers around its easel and has 60 seconds to:

Write the names of as many fixed-width fields in an IPv4 header as possible, along with their widths in bits.

Example: “version, 4 bits”

Win \$5/bit for correct answers (up to $20 \times 8 \times \$5 = \800).

Lose \$5/bit penalty for incorrect answers.

Open vSwitch \$100

True or false:

Corporate contributors to Open vSwitch must sign a Contributor License Agreement (CLA).

Open vSwitch \$200

What are the two protocols primarily used to control Open vSwitch?

Open vSwitch \$300

In what year was Open vSwitch 1.0 released?

One of: 2008, 2009, 2010, 2011

Open vSwitch \$400

Name three L2-in-L3 tunnel encapsulations supported by Open vSwitch.

Open vSwitch \$500

Which one of the following file formats does not appear somewhere in the Open vSwitch source tree?

XML, HTML, nroff, Markdown

Silicon Valley \$100



This road is famous for venture capital offices.

Silicon Valley \$200



Many startups started in this building.

Silicon Valley \$300

Shell Game!

In an Open vSwitch “sandbox” environment,
create a bridge br0 and add a flow to it.

(60 second limit)

Silicon Valley \$400



This Palo Alto building is in the National Register
of Historic Places.

Silicon Valley \$500



Palo Alto site of innovation.

TCP/IP \$100

What is the minimum length of an IPv4 header?

The maximum length?

TCP/IP \$200

IPv4 contains a field named “TTL”.

What is the name of this field in IPv6?

TCP/IP \$300

In the pre-CIDR Internet, in what “class” was the IP address 172.18.254.16?

TCP/IP \$400

In IPv4, what is a “martian”?

TCP/IP \$500

RFC 1190 defines a protocol called ST, the Internet Stream Protocol. What is another name for this protocol?

TOS \$100

IPv4 header field.

TOS \$200

An agreement with an ISP.

TOS \$300

Edition of Star Trek.

TOS \$400

Shell Game!

Using command-line tools from a shell prompt, compute `0x1234 xor 0xabcd`, expressing the answer in hexadecimal.

(60 second limit)

TOS \$500

A mainframe predecessor of DOS/360.

Faces of SDN \$100



Faces of SDN \$200



Faces of SDN \$300



Faces of SDN \$400



Faces of SDN \$500



Potpourri \$100

Pair up each protocol with its TCP port number:

FTP, SMTP, Telnet, SSH

21, 22, 23, 25

Potpourri \$200

What earlier “SDx” inspired the term “SDN”?

Potpourri \$300

What kind of arithmetic is used to compute the IP, TCP, and UDP checksums?

Potpourri \$400

What country won the 2014 World Cup soccer
championship?

Potpourri \$500

State the first and last name of any current NFL
player.