

Code Examples





Stage #FI9

Pendina

that: 0x4c is L, 0x54 is T, 0x68 is hand 0x71 is q

So instead of $\,$ %4c , we can use L, similarly instead of $\,$ %54 , we can use T etc. to have a shorter string

This way, the URL encoded value for our info hash would be 52 characters long instead of 60: %d6%9f%91%e6%b2%ae **LT**%24**h**%d1%07%3a**q**%d4%ea%13%87%9a%7f

or %d6%9f%91%e6%b2%aeLT%24h%d1%07%3ag%d4%ea%13%87%9a%7f with code formatting





sarp challenge author 9 months ago

How to parse peers response

In the compact representation of peers response, *peers* field is of type *string*, but its content is *binary data*. You need to treat it as a sequence of bytes, and split it into groups of 6.

For example, the byte sequence [178, 62, 82, 89, 201, 14, 165, 232, 33, 77, 201, 11] would correspond to IP:port pairs of

178.62.82.89:51470 165.232.33.77:51467

In each group, the first 4 bytes correspond to the IP address, where each byte represents a number in the IP address

The last 2 bytes represent the port number, in big-endian order, meaning that we can interpret a group of bytes as an integer by just putting them together left to right.

In our example, 201 = 0xc9 in hexadecimal and 14 = 0x0e in hexadecimal When put together left to right, 0xc90e is 51470 ((16^{0}) x $14 + (16^{1})$ x $0 + (16^{2})$ x $9 + (16^{3})$ x 12)

Programming languages usually have library functions to convert byte arrays into integers, so you don't have to do this math yourself. You can use:

- binary.BigEndian.Uint16(byteSlice) in Go
- int.from_bytes(byte_array, byteorder='big', signed=False) in Python
- u16::from_be_bytes(byte_slice) in Rust



ollien 7 months ago