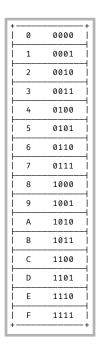
Base64

First let's understand how base 64 works

Now here is where things begin to get interesting and I will show step by step

First we want a Binary Conversion Table



		#	######	"""""""	#####	######	!########	"""""	##		
		# # #		BASE64		ERSION		######	# # # ##		
+ char	binary	dec	char	binary	dec	char	binary	dec	char	binary	dec
A	000000	0	ļ Q	010000	16	l g	100000	32	l w	110000	48
 B	000001	1	l R	010001	17	h h	100001	33	×	110001	49
C	000010	2	S	010010	18	i	100010	34	у	110010	50
D	000011	3	T T	010011	19	j	100011	35	l z	110011	51
E	000100	4	i U	010100	20	l k	100100	36	0	110100	52
F	000101	5	i v	010101	21	l	100101	37	1	110101	53
G	000110	6	i w	010110	22	m	100110	38	2	110110	54
Н	000111	7	X	010111	23	l n	100111	39	3	110111	55
I	001000	8	İΥ	011000	24	0	101000	40	4	111000	56
J	001001	9	l Z	011001	25	p	101001	41	5	111001	57
К	001010	10	a	011010	26	i q	101010	42	6	111010	58
L	001011	11	l b	011011	27	r	101011	43	7	111011	59

M	001100	12		011100	28	s	101100	44	8	111100	60
N	001101	13	l d	011101	29	t	101101	45	9	111101	61
0	001110	14	l e	011110	30	u	101110	46	+	111110	62
Р	001111	15	f	011111	31	v	101111	47	/	111111	63

<pre>JWT Header: eyJ1c2VybmFtZSI6InRlc3QxIn0</pre>
Decim: 30 50 9 53 28 54 21 50 6-bit: 011110 110010 001001 110101 011100 110110 010101 110010 8-bit: 01111011 00100010 01110101 01110011 01100101 01110010 Hex: 7 B 2 2 7 5 7 3 6 5 7 2
b m F t Z S I 6 Decim: 27 38 5 45 25 18 8 58 6-bit: 011011 00110 000101 011010 0110010 0010001 0111010 8-bit: 01101110 01100001 01101101 01100101 00100010
I n R l c 3 Q x Decim: 8 39 17 37 28 55 16 49 6-bit: 001000 100111 010001 100101 011100 110111 010000 110001 8-bit: 00100010 01110100 01100101 01110011 01110100 00110001 Hex: 2 2 7 4 6 5 7 3 7 4 3 1
I n 0 Decim: 8 39 52 6-bit: 001000 100111 110100 8-bit: 00100010 01111101 00 Hex: 2 2 7 D =
Hex str: 7B 22 75 73 65 72 6E 61 6D 65 22 3A 22 74 65 73 74 31 22 7D ASCII : {"username":"test1"}
JWT Payload: FWkNLg F W k N L g
Decimal: 5 22 36 13 11 32 6-bit: 000101 010110 100100 001101 001011 100000 8-bit: 00010101 01101001 00001101 00101110 0000 Hex: 15 69 0D 2E = ASCII: NAK i \r . NAK = Negative Acknowledge
JWT Key: CYgHRLkx4PxK77wLMFVyLheuEIY C Y g H R L k x 4
Decimal: 2 24 32 7 17 11 36 49 56 6-Bit: 000010 011000 100000 000111 010001 001011 100100
P x K 7 7 7 W L M F Decimal: 15 49 10 59 59 48 11 12 5 6-Bit: 001111 110001 001010 111011 111011 110000 001011 001100 000101 8-Bit: 11111100 01001010 11101111 10111100 00001011 00110000 01010101 Hex: F C 4 A E F B C 0 B 3 0 5 5
V y L h e u E I Y Decimal: 21 50 11 33 30 46 4 8 24 6-Bit: 010101 110010 001011 100001 011110 101110 000100 001000 011000 8-Bit: 01110010 00101110 00010111 10101110 00010000 10000110 00 Hex: 7 2 2 E 1 7 A E 1 0 8 6 =
Hex : 09 88 07 84 B9 31 D0 FC 4A EF BC 0B 30 55 72 2E 17 AE 10 86 ASCII: \t ê \a ä ╣ 1 ð ³ J ï ¼ \v 0 U r . SI ® \b å