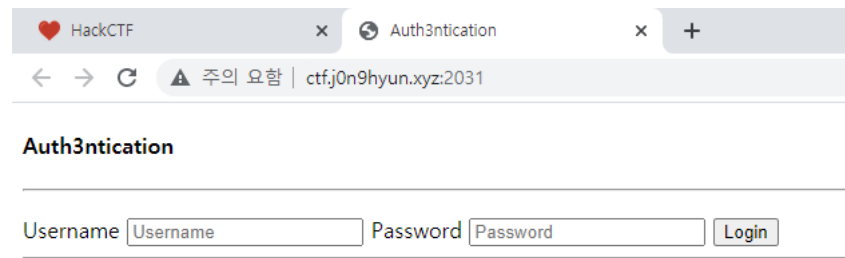


Authenticate



Auth3ntication

Username Password

들어가자마자 보이는 것은 로그인 창이다. 그래서 SQL injection인줄 알고 ' OR 1=1 -- 같은 것을 넣어보았으나 아무런 효과가 없었다. 그래서 f12로 살펴보니 자바스크립트가 보인다.


```

    if (h.length != 2) {
        h = "\x30" + h;
    }
    return "\x5c\x78" + h;
}

function x(d) {
    if (d < 0) {
        d = 0xFFFFFFFF + d + 1;
    }
    return d.toString(16).toUpperCase();
}

```

```

> function main() {
    var c = "";
    var k = "cresponse";
    var func =
"\x0d\x13\x45\x17\x48\x09\x5e\x4b\x17\x3c\x1a\x1f\x2b\x1b\x7a\x0c\x1f\x66\x0b\x1a\x3e\x51\x0b\x41\x11\x58\x17\x4d\x55\x16\x42\x01\x52\x4
b\x0f\x5a\x07\x00\x00\x07\x06\x40\x4d\x07\x5a\x07\x14\x19\x0b\x07\x5a\x4d\x03\x47\x01\x13\x43\x0b\x06\x50\x06\x13\x7a\x02\x5d\x4f\x5d\x1
8\x09\x41\x42\x15\x59\x48\x4d\x4f\x59\x1d\x43\x10\x15\x02\x1a\x0e\x17\x05\x51\x0d\x1f\x1b\x08\x1a\x0e\x03\x1c\x5d\x0c\x05\x15\x59\x55\x0
9\x0d\x0b\x0e\x0e\x5b\x10\x5b\x01\x0d\x0b\x55\x17\x02\x5a\x0a\x5b\x05\x10\x0d\x52\x43\x40\x15\x46\x4a\x1d\x5f\x4a\x14\x48\x4b\x40\x5
f\x55\x10\x42\x15\x14\x06\x07\x46\x01\x55\x16\x42\x48\x10\x4b\x49\x16\x07\x07\x08\x11\x18\x5b\x0d\x18\x50\x46\x5c\x43\x0a\x1c\x59\x0f\x4
3\x17\x58\x11\x04\x14\x48\x57\x0f\x0a\x46\x17\x48\x4a\x07\x1a\x46\x0c\x19\x12\x5a\x22\x1f\x0d\x06\x53\x43\x1b\x54\x17\x06\x1a\x0d\x1a\x5
0\x43\x18\x5a\x16\x07\x14\x4c\x4a\x1d\x1e";
    buf = "";
    if (k.length == 9) {
        for (i = 0, j = 0; i < func.length; i++) {
            c = parseInt(func.charCodeAt(i));
            c = c ^ k.charCodeAt(j);
            if (++j == k.length) {
                j = 0;
            }
            buf += eval('"' + a(x(c)) + "'');
        }
        console.log(buf);
    } else {
        $("#cresponse").html("<div class='alert alert-danger'>Invalid creds...</div>");
    }
}

function a(h) {
    if (h.length != 2) {
        h = "\x30" + h;
    }
    return "\x5c\x78" + h;
}

function x(d) {
    if (d < 0) {
        d = 0xFFFFFFFF + d + 1;
    }
    return d.toString(16).toUpperCase();
}
< undefined
> main()
na d8f08r_hzXkLb1hh["{.0+r.'s1q=%|?dretv/#t?df|xw5#p"ba&xv?h`¶a/* .hf/1p::(<)r-cpchkdud>c1-khkpl2bvp:'1~{.}`>s)d~{:yq?i)\
i)'c)=-3p%8x,;:{88%<'u1e{ht#b's180%:sdumbh4ck5%.&y16a0r;cag88ay#t:(t/j)bjw9Pz~v<-h1tt0-j?-k?uuq?:rp
< undefined
> |

```

아까전에 username은 9글자였으니까 저 문자열을 9글자씩 나누어서 돌려보자

```

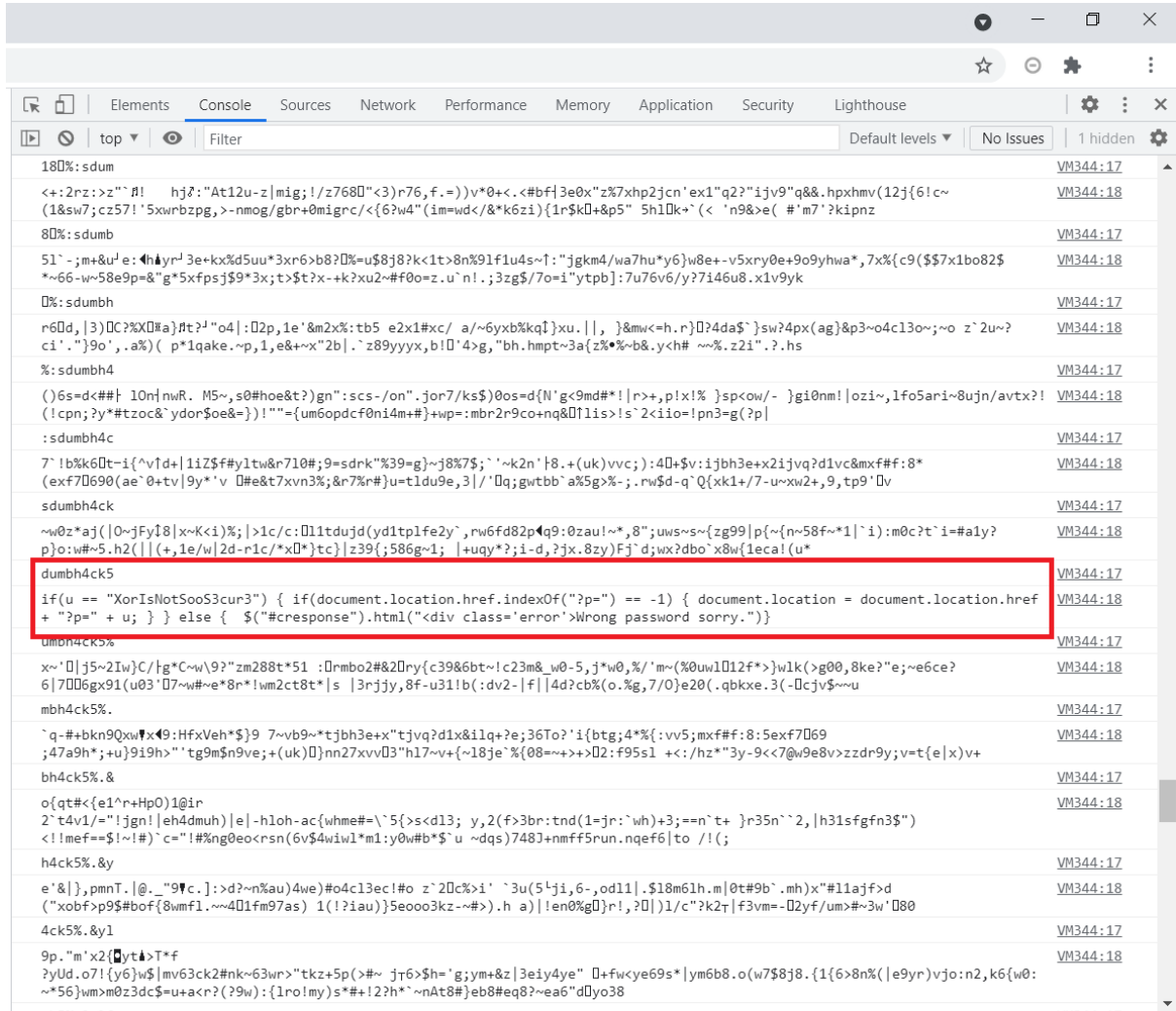
function main() {
    var str = "na d8f08r_hzXkLb1hh[" + ".r.'s1q=%|?dretv/#t?df|xw5#p"ba&xv?h`¶a/* .hf/1p::(<)r-cpchkdud>c1-khkpl2bvp:'1~{.}`>s)d~{:yq?i)\
for(var va=0; va < str.length; va++){
    var c = "";
    var k = str.substr(va, 9);
    var func = "\x0d\x13\x45\x17\x48\x09\x5e\x4b\x17\x3c\x1a\x1f\x2b\x1b\x7a\x0c\x1f\x66\x0b\x1a\x3e\x51\x0b\x41\x11\x58\x17\x4d\x55\x16\x42\x01\x52\x4
b\x0f\x5a\x07\x00\x00\x07\x06\x40\x4d\x07\x5a\x07\x14\x19\x0b\x07\x5a\x4d\x03\x47\x01\x13\x43\x0b\x06\x50\x06\x13\x7a\x02\x5d\x4f\x5d\x1
8\x09\x41\x42\x15\x59\x48\x4d\x4f\x59\x1d\x43\x10\x15\x02\x1a\x0e\x17\x05\x51\x0d\x1f\x1b\x08\x1a\x0e\x03\x1c\x5d\x0c\x05\x15\x59\x55\x0
9\x0d\x0b\x0e\x0e\x5b\x10\x5b\x01\x0d\x0b\x55\x17\x02\x5a\x0a\x5b\x05\x10\x0d\x52\x43\x40\x15\x46\x4a\x1d\x5f\x4a\x14\x48\x4b\x40\x5
f\x55\x10\x42\x15\x14\x06\x07\x46\x01\x55\x16\x42\x48\x10\x4b\x49\x16\x07\x07\x08\x11\x18\x5b\x0d\x18\x50\x46\x5c\x43\x0a\x1c\x59\x0f\x4
3\x17\x58\x11\x04\x14\x48\x57\x0f\x0a\x46\x17\x48\x4a\x07\x1a\x46\x0c\x19\x12\x5a\x22\x1f\x0d\x06\x53\x43\x1b\x54\x17\x06\x1a\x0d\x1a\x5
0\x43\x18\x5a\x16\x07\x14\x4c\x4a\x1d\x1e";
    buf = "";
    if (k.length == 9) {
        for (i = 0, j = 0; i < func.length; i++) {
            c = parseInt(func.charCodeAt(i));
            c = c ^ k.charCodeAt(j);
            if (++j == k.length) {
                j = 0;
            }
            buf += eval('"' + a(x(c)) + "'');
        }
    }
}

```

```

        console.log(k);
        console.log(buf);
    }else {
        $("#cresponse").html("<div class='alert alert-danger'>Invalid creds...</div>");
    }
}
}

```



k = dumbh4ck5일때 제대로 된 내용이 나오는 것이 보인다. 해석해보면 u(password)가 XorIsNotSooS3cur3여야 하는 것 같다. 그래서 username에 dumbh4ck5를, password에 XorIsNotSooS3cur3 넣고 제출하니 답이 뜬다

HackCTF

Auth3ntication

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⚠ 주의

요함

ctf.j0n9hyun.xyz:2031/?p=XorIsNotSooS3cur3

Auth3ntication

Username

Password

Login

HackCTF

