Natas Level 7 - Level 8

Viewing the source code for level 8, shows a function that manipulates a string.

```
`$encodedSecret = "3d3d516343746d4d6d6c315669563362";
function encodeSecret($secret) {
    return bin2hex(strrev(base64_encode($secret)));    }
if(array_key_exists("submit", $_POST)) {
    if(encodeSecret($_POST['secret']) == $encodedSecret) {
    print "Access granted. The password for natas9 is <censored>";
    } else {       print "Wrong secret";       }   }   ?>`
```

Looks like the secret is subjected to three different operations.

1. Hex to a Bin
2. String is reversed order
3. Converted to base64.

We know the original encoded secret is: 3d3d516343746d4d6d6c315669563362. So operate on this and see what happens.

Hex to Bin

```
==QcCtmMml1ViV3b
```

Reverse this string

```
b3ViV1lmMmtCcQ==
```

Convert from base64

```
oubWYf2kBq
```

Use the above as the Input secret to produce the password.

ZE1ck82lmdGIoErlhQgWND6j2Wzz6b6t