

1- Obtener la Contraseña del pdf de Llaves RSA

a. Ir a CyberChef subir la imagen y usar Heatmap chart obtener el siguiente output:

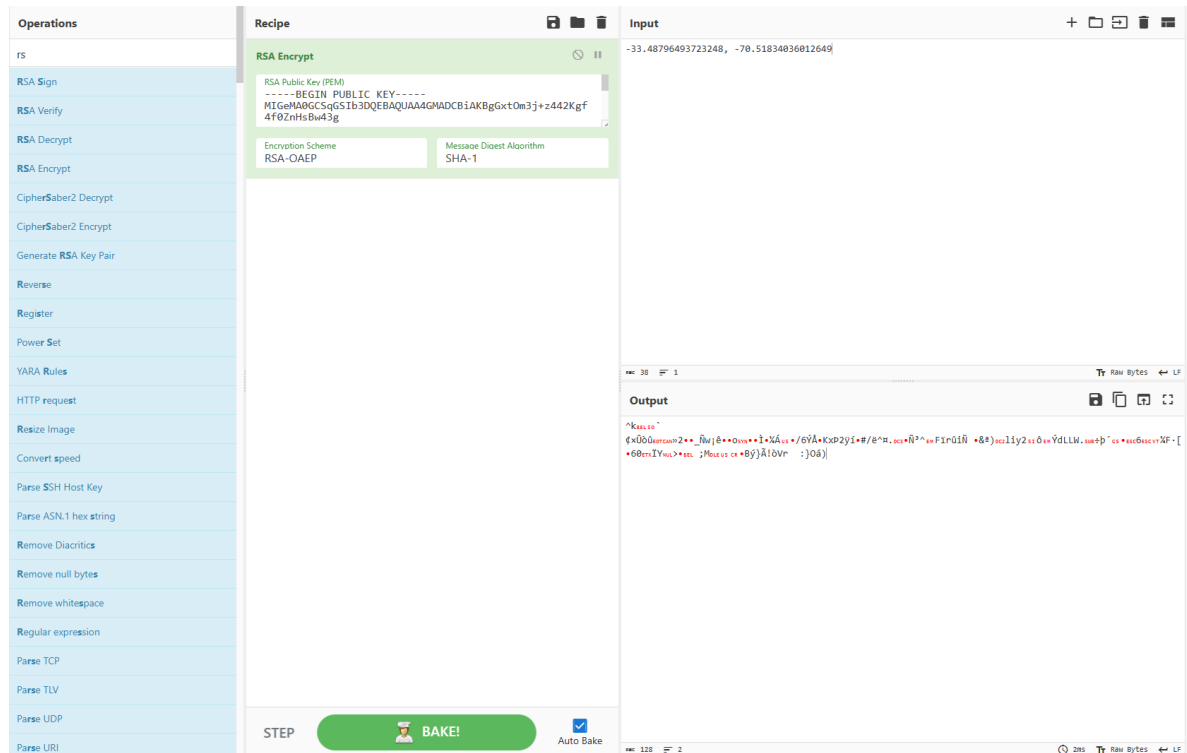
The screenshot shows the CyberChef web application interface. On the left is a sidebar with various operation categories like Operations, Favourites, Data format, Encryption / Encoding, Public Key, Arithmetic / Logic, Networking, Language, Utils, Date / Time, Extractors, Compression, Hashing, Code tidy, Forensics, and Multimedia. The main area is divided into three sections: Recipe, Input, and Output. The Recipe section has a 'Heatmap chart' recipe selected, with settings for 'Record delimiter' (Line feed), 'Field delimiter' (Space), 'Number of vertical bins' (25), and 'Number of horizontal bins' (25). The 'Use column headers as labels' checkbox is checked. The Input section shows a base64-encoded file named 'CTF01.png'. The Output section displays the resulting heatmap, which is a noisy image with the text 'TICS413CTF01' visible at the bottom.

b. Usar colocar la contraseña en Llaves RSA, debería ver lo siguiente:

```
-----BEGIN RSA PRIVATE KEY-----
MIICWwIBAAKBgGxt0m3j+z442Kg f4f0ZnHsBw43gfyeBTtBS3GStnLbv1Ff+IfzT
pNihPvuXguV/JsecBhP2MvqCR0C2LwinTWZlxBy9Hq7KXKhTRVbheBAC3IQHgJpy
PwcGv6EzPHRwgpGKP1B470ZCx8IvGVrcJUedw1BowRPDCj4mYU7I0ihnAgMBAAEC
gYAQtIEcUNgndfGGsCtPrEPe/Z2bX2+ZsidommmZxo57T/Ph4e3XXlVNAZFhlyytK
nd1nRJf30aaoPzEazJbtIFskrnGu7ARpbHAY+YGzILsrSM3Hs7FNFLFH83pu5JuFn
80KvpHp+y7y2jAazLA6oqdvKL3+i2i2a/9E34uuGEijggQJBALtXfgWk9QJ0g9Fb
mGbzc6c0bUAcM6jzLb1AEbus9Pfh+bNpFLVnvSEaz7hVvc1d4QJlqzaHZy1chVbE
JUTotIcCQQCUKedlbninpe+E2T2+4qV1x4/vv5nLUSuLFLA0PAR069nrKfsV7RM
jSkjG5iWSPvTXf9meRsS7FrBfKVhKqPBAKEAt+8yCyana8lcwLwVIRXz8jGWJkDK
M9JbE00HxYuguq4CtLSzucyts4gYc9qxdDvDCxoAB/yvP6k8PTE9ikevNwJAPQy0
d4LCQTqP0+Yx6ALlq7Aj6qhMM2oyDq1XG9P71138fH+MABpxtELf9g1c5i/Uc9d7
cUHdggKZsrglfNARAQJAXijomQyphalVnLLqPKChxku8nHR/0hSPBE9LLoB1McY7
em4ovUoGT7t/7zQtD2QSA+D7T/Ze0jnVSCB1SgAx9w==
-----END RSA PRIVATE KEY-----
-----BEGIN PUBLIC KEY-----
MIGeMA0GCsQGSIb3DQEBAAQAA4GMADCBIAKBGxt0m3j+z442Kg f4f0ZnHsBw43g
fyeBTtBS3GStnLbv1Ff+IfzTpNihPvuXguV/JsecBhP2MvqCR0C2LwinTWZlxBy9
Hq7KXKhTRVbheBAC3IQHgJpyPwcGv6EzPHRwgpGKP1B470ZCx8IvGVrcJUedw1Bo
wRPDCj4mYU7I0ihnAgMBAEE=
-----END PUBLIC KEY-----
```

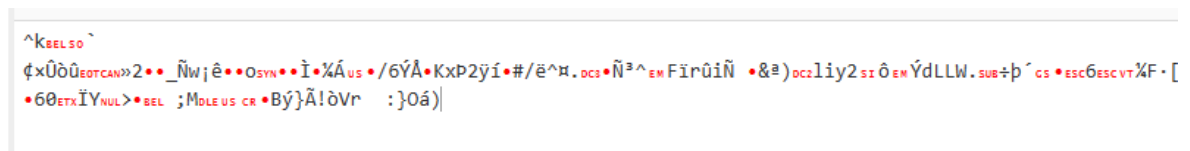
2- sustitución de este mensaje con nuevas coordenadas

- se selecciona la nueva coordenada: -33.48796493723248, -70.51834036012649
- Se usa Cyberchef si se encripta la nueva coordenada con la llave publica:

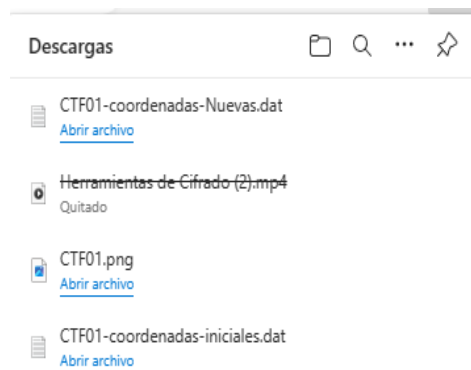


Ojo copiar bien la llave

- En mensaje encriptado:



- Se guarda el archivo con la nueva coordenada:



Más información