Signing Request

28 November 2025   23:08

CATEGORY: Cryptography

STEP BY STEP SOLUTION

In this challenge we are given a jpg file. But it seems that we cannot open it. So we open it in notepad to see what's missing.

We find the following:

```
-----BEGIN CERTIFICATE REQUEST-----
MIIEtjCCAp4CAQAwLzEtMCsGA1UEAwwkSURDe000YW1fcGwzYVNlX1NpZ05fXlf
Q2VyN2lmSWM0dDN9MIICIjANBgkqhkiG9w0BAQEFAAOCAg8AMIICCgKCAgEAyPIX
J0gr08e1uCcu+h0vAAvGoruXfJR627dClcTaIPg70LnuuCB2+cs4SLLtYMnPxqFw
dRlZI6MgOD5DOC4IebJT/1bqszH/RAf3ZkRJ+++pYJs6yKGQLNGfv946gOTgC9V2
Dv3Sz1JxE8smAf3oHzPBhaWz5mPKyfJrwHdnNvNpgr0UUm7V25ZbtsY+RxbFMDpd
JOnk9G00YjDMGdq/MlcRLq+qEytG7O9w/e/vklO3b/ZZ+gJSN033H6CNXmZujPvB
i4StwkRwBYT0P7ZVFOMYw6r3lfFGvvHOnwSC91z+CcqmbsRScYB25MzO4adD8VDh
mI23F/NZPRDzHWljIRVKglJ3hYRLem1D28FRm7KjlX+T69p0yvzdOZqf9YpfpT7M
+mRvIX1KC2pxsRnB8VJRSo4H/f1q7CGtvRyMYpUB6pobU7va+oyimkjh4oiPFJeO
TxK5ZjPNJWxgld64mJ82OQMWiSX66X4SMWGtFSGXCL867UDxRHRaqCSfG8/G4jYP
qpVpWen8Sr5NfXADgOj0OzClHnBNTsnamozg9lUXRRAcGsOLnv9CsKnEAwB86RNb
```

-----BEGIN CERTIFICATE REQUEST-----
MIIEtjCCAp4CAQAwLzEtMCsGA1UEAwwkSURDe000YW1fcGwzYVNlX1NpZ05fbXlf
Q2VyN2lmSWM0dDN9MIICIjANBgkqhkiG9w0BAQEFAAOCAg8AMIICCgKCAgEAyPIX
J0gr08e1uCcu+h0vAAvGoruXfJR627dClcTaIPg70LnuuCB2+cs4SLLtYMnPxqFw
dRlZI6MgOD5DOC4IebJT/1bqszH/RAf3ZkRJ+++pYJs6yKGQLNGfv946gOTgC9V2
Dv3Sz1JxE8smAf3oHzPBhaWz5mPKyfJrwHdnNvNpgr0UUm7V25ZbtsY+RxbFMDpd
JOnk9G00YjDMGdq/MlcRLq+qEytG7O9w/e/vklO3b/ZZ+gJSN033H6CNXmZujPvB
i4StwkRwBYT0P7ZVFOMYw6r3lfFGvvHOnwSC91z+CcqmbsRScYB25MzO4adD8VDh
mI23F/NZPRDzHWljIRVKglJ3hYRLem1D28FRm7KjlX+T69p0yvzdOZqf9YpfpT7M
+mRvIX1KC2pxsRnB8VJRSo4H/f1q7CGtvRyMYpUB6pobU7va+oyimkjh4oiPFJeO
TxK5ZjPNJWxgld64mJ82OQMWiSX66X4SMWGtFSGXCL867UDxRHRaqCSfG8/G4jYP
qpVpWen8Sr5NfXADgOj0OzClHnBNTsnamozg9lUXRRAcGsOLnv9CsKnEAwB86RNb
B8OYO1/28DMwS2+L4MbJ7bXodH93eq3NwRojM/BaC4l820K+EfJaLB0HC4sfJycT
Z4GY7r35DBwe8wDpiqe04kcYNW0rLnnrMGHmcZ0CAwEAAaBCMEAGCSqGSIb3DQEJ
DjEzMDEwLwYDVR0RBCgwJoIkSURDe000YW1fcGwzYVNlX1NpZ05fbXlfQ2VyN2lm
SWM0dDN9MA0GCSqGSIb3DQEBCwUAA4ICAQAryy2JulfWtD02gS9YkHZoL8iWbr9I
XWhl0NBwGU1ibtzNvqGYqBQikrCkqtxBZglRC0lJ6DTQpzdRs3NnMmpxrR2U6/RH
hrA0dt1ynYNkOgVfPVDSCfU2UZOunb4Jd0jCxjtO9Q+V076dzpvHqL2NqTvzP0K8
5bD9KeGNlgXVA65dgNsU+iudyQu/4BYLz1+EUuKFyDCE5wJxWIjy5GBY2ayM7/Tm
YE+niJviXvyKBI+0UGk/4Eii934wsUcWCu9Qlism4cvJ4WbBBGlgugLILXOyPgHA
LRucNBSisHX6ioIKgrZmB3sk6uvBL4sJ1SbQOLlL9vDIGRHZE9rwHdYGJKtSa16k
qz4ebEaByeFbKDsAFZNf6uINvPX9E1/U04dSn0RfN8J6pkN/lt2B9or0uLL/QLDY
VS4LJYeMXUxnxloaRWPb4LkRaX35AfU4quTtKapy/Kgh2PdhNrlwCHihw110zBGj
3T3GFe56TcpdIo1zjiOi4CCJc0AE9e9LSJKdnazxmtpbMIrE6RhXpI/Ki9ZZFoUG
A3S9Diuasvhjo8k3nyTib8KQJ2JT20ygvuCVpR15DOGDBK5ke/RqZxjq88FsTwvu
NGAJjefzcL/4Lhuf5MQ1HQdhxcVJjXCicsvlyy6BZmuIx7FXhdfgq0Y75g8hMXyx
GwT2Uf08NMnOhw==
-----END CERTIFICATE REQUEST-----

We decode the given base64 encoded text to get this:

0,⯑¶0,⯑ž⯑⯑⯑0/1-0+⯑⯑U⯑⯑
$IDC{M4am_pl3aSe_SigN_my_Cer7ifIc4t3}0,⯑"0
⯑   *†H†÷
⯑⯑⯑⯑⯑⯑⯑,⯑⯑⯑0,⯑
⯑,⯑⯑⯑⯑Èò⯑'H+ÓÇµ¸'.ú⯑/⯑
Æ¢»—|"zÛ·B•ÄÚ ø;Ð¹î¸ vùË8H²í`ÉÏÆ¡pu⯑Y#£ 8>C8.⯑y²SÿVê³1ÿD
÷fDIûï©`›:È¡⯑,ÑŸ¿Þ:€ää
Õv⯑ýÒÏRq⯑Ë&⯑ýè⯑3Á…¥³æcÊÉòkÀwg6ói,½⯑RnÕÛ-[¶Æ>G⯑Å0:]$éäôm4b0Ì⯑Ú¿2W⯑.
¯ª⯑+Fìïpýiï'S·oöYú⯑R7M÷⯑ ⯑^fnŒûÁ‹„ÂDp⯑„ô?¶U⯑ã⯑Ãª÷•ñF¾ñÎŸ⯑,÷\þ   Ê¦nÄRq
€väÌÎá§CñPá~Ð·⯑óY=⯑ó⯑ic!⯑J,Rw…„KzmCÛÁQ›²£•⯑"ëÚtÊüÝ9šŸõŠ_¥>Ìúdo!}J
jq±⯑ÁñRQJŽ ýýjì!½⯑Œb•⯑ê⯑⯑S»ÚúŒ¢šHáâ^⯑⯑—ŽO⯑¹f3Í%l`•Þ¸~Ÿ69⯑⯑‰%úé~⯑1a⯑!—
⯑¿:í@ñDtZ¨$Ÿ⯑Ï⯑â6⯑ª•iYéüJ¾M}p⯑€èô;0¥⯑pMNÉÚšŒàöU⯑E⯑⯑⯑Ã‹žÿB°©Ä⯑⯑|é⯑[Ã~;
_öð30Ko‹àÆÉíµèt⯑wzÍÁ⯑#3ðZ
‰|ÛB¾⯑òZ,⯑
‹⯑''⯑g⯑~î½ù
⯑⯑⯑ó⯑éŠ§´âG⯑5m+.yë0aæq⯑⯑⯑⯑⯑⯑ B0@⯑   *†H†÷
⯑   ⯑13010/⯑⯑U⯑⯑⯑(0&,$IDC{M4am_pl3aSe_SigN_my_Cer7ifIc4t3}0
⯑   *†H†÷
⯑⯑
⯑⯑⯑,⯑⯑⯑+Ë-‰ºWÖ´=6⯑/X⯑vh/È-n¿H]heÐÐp⯑MbnÜÍ¾¡~¨⯑'º¤ªÜAf Q
IIè4Ð§7Q³sg2jq⯑"ëôG†°4vÝr⯑fd:⯑_=PÒ   õ6Q"®⯑¾ wHÂÆ;Nõ⯑•Ó¾⯑Î›Ç¨½⯑©;ó?
B¾å°ý)á⯑-⯑Õ⯑®]€Û⯑ú+⯑É
¿à⯑
Ï_„Râ…È0„ç⯑qX^òä`XÙ¬Œïôæ`O§^›â^üŠ⯑⯑´Pi?àH¢÷~0±G⯑
ïP-+&áËÉáfÁ⯑ì`º⯑È-s²>⯑À-⯑œ4⯑¢°uúŠ,
,¶f {$êëÁ/‹   õ&Ð8¹KöðÈ⯑⯑Ù⯑Úð⯑Ö⯑$«Rk^¤«>⯑lF⯑Éá[(;⯑⯑"_êâ
¾õý⯑_ÔÓ‡RÝD_7Âz¦C⯑-Ý⯑öŠô¸²ÿ@°ØU.
%‡Œ]LgÆZ⯑EcÛà¹⯑i}ù⯑õ8ªäí)ªrü¨!Ø÷a6¹p⯑x¡Ã]tÌ⯑£Ý=Æ⯑îzMÊ]"⯑sŽ#¢à ‰
s@⯑õïKH'⯑⯑¬ñšÚ[0ŠÄé⯑W¤⯑Ê‹ÒY⯑…⯑⯑t½⯑+š²øc£É7Ÿ$âoÂ⯑'bSÛL ¾à•¥⯑y
áf⯑®d{ôjg⯑êóÁlO
î4`   ⯑çóp¿ø.⯑ŸäÄ5⯑ aÅÅI⯑p¢rËåË.⯑fk^Ç±W…×à«F;æ⯑!1|±⯑⯑öQý<4ÉÎ‡|

We see a flag in between the dump: IDC{M4am_pl3aSe_SigN_my_Cer7ifIc4t3}

FLAG: IDC{M4am_pl3aSe_SigN_my_Cer7ifIc4t3}