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Important Note: This document illustrates all the important steps required to complete this lab. This is by no means a comprehensive step-by-step solution for this exercise. This is only provided as a reference to various commands needed to complete this exercise and for your further research on this topic.

User should try dictionary attack using the provided dictionary file first. If the dictionary attack doesn't succeeds, then the user should go for mask based bruteforce approach according to given password policy.

Note: Some snapshots are clipped to make them readable. So, screen content will not be an exact match. However, solutions will still match.

Step 1: A passphrase protected private key file is given. Extract the crackable information from the file using John the Ripper tools and check file contents

Command: ssh2john id rsa > hash

root@attackdefense:~# cat hash id_rsa:\$ssh2\$2d2d2d2d2d424547494e205253412050524956415445204b45592d2d2d2d2d2d0a50726f632d547970653a20342c454e435259505445440a44454b2d496e666f3a20 d3056477147316c5853504b470a6f50496d415a724948677a576c50494d4979504349565a614436766d5346477639436e77396e7a7035444d7a4b30496c4972565a474f78666369 444f71385a330a75364759337568364d73314b6a55464258484b5744496161516f714d396e5154305a78636c4d48374e647673557a7a4d52774b4545536b4664365271577831786 a49346b4e6133626a626e676d47656d375650435a483374772b416673464b596e4164345534457a6d2b30455436575074345574474961542b4d556476383744760a544a7a504754 52756d4d48436374486f7530616e366c79754945524f4670354533714467535a762f6d2f6d77583842392b634d59312b675374623078714738740a56376c4c4b4e634d656c3343 3544347a6c594756504f30657068636968486a3534736a6f676756784b492b396c626c4d332b374f4d46335a330a6a74384f394c6f6c703371427442683336366d774b382b575a3 444835466665843797a616e9a52487465624a3757414a62314a6375446b794136415274383232574d665245354442594b4e7a4b30556c3957567457566c7a6d4a575448494451676c7379796f@a3768565144434d6e2f54694359376b4a766e4776587057526d6c504c6270445663664e6644326347495a5a696a5166685555767634666449646c3164515946740a4e6d46316146 363145546372726465776f7447444d56627a4f41706d412b30627a68342f3147427366524e66746838467339566644447767744a58522b78764f0a552b562b456238582f5539347 74d6369664570334841497a79327168693338364d436745732b68734b65505449734f706735714b66736b736b736f4b41520a5948364d6d4942727a48357a507a4d364c5756 3968535867784d4554765078636857355151663268534b49744f506e7735494367364e635433495a79686c63560a4364426f37433731527076633854306147676f6d5a57377a755 357536d4539774a42472f534e77733953547745527171317a51354e36517733424c5134326a610a6d5036797758476d68575034564c49666e5257726a6d584c387a516b6f343164 6530706e63593531532f437a6d48724550786f5333425168667279747233466f0a634b706e787151434c4452456e4c54553848714c7a322f677252352f2f2f74453335776567643root@attackdefense:~#

Step 2: We can use John The Ripper (JTR) for this.

Launch dictionary attack using given dictionary file 1000000-password-seclists.txt

Command: john --wordlist=1000000-password-seclists.txt hash

```
root@attackdefense:~# john --wordlist=/root/wordlists/1000000-password-seclists.txt hash Created directory: /root/.john
Using default input encoding: UTF-8
Loaded 1 password hash (SSH [RSA/DSA 32/64])
Press 'q' or Ctrl-C to abort, almost any other key for status
revenge2 (id_rsa)
1g 0:00:00:00 DONE (2018-12-06 16:03) 2.127g/s 425548p/s 425548c/s 425548C/s revenge2
Use the "--show" option to display all of the cracked passwords reliably
Session completed
root@attackdefense:~#
```

Flag: revenge2

References:

- Hashcat (https://hashcat.net)
- 2. Hashcat Wiki (https://hashcat.net/wiki/)
- 3. John the ripper jumbo (https://www.openwall.com/john/)