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John The Ripper Hash Formats

[John the Ripper](#) is a favourite password cracking tool of many pentesters. There is plenty of [documentation](#) about its command line options.

I've encountered the following problems using John the Ripper. These are not problems with the tool itself, but inherent problems with pentesting and password cracking in general.

- Sometimes I stumble across hashes on a pentest, but don't recognise the format, don't know if it's supported by john, or whether there are multiple "--format" options I should try.
- The hashes you collect on a pentest sometimes need munging into a different format... but what's the format john is expecting?
- John will occasionally recognise your hashes as the wrong type (e.g. "Raw MD5" as "LM DES"). This is inevitable because some hashes look identical.
- Sometimes I gain access to a system, but can't recall how to recover the password hashes for that particular application / OS.

These problems can all be sorted with a bit of googling or grepping through the john source code. I thought it might be helpful to compile a cheat sheet to reduce the amount of time I spend grepping and googling.

In the first release of this page I've:

- Copied example hashes out of the source code for most supported hash types.
- Provided examples of what your hashes.txt file might look like (though I'm sure other variations are supported that aren't covered here yet).
- For each example hash I've stated whether it will be automatically recognised by john, or whether you'll have to use the "--format" option (in which case I've included which --format option you need)

I haven't yet done the following:

- Added reminders on how hashes can be collected.
- Added information on how to munge the hashes into a format supported by john.

This sheet was originally based on [john-1.7.8-jumbo-5](#). Changes in supported hashes or hash formats since then may not be reflected on this page.

afs – Kerberos AFS DES

Supported Hash Formats

```
$ cat hashes.txt
$K4$a8dc8aeaa2c48a97,
$ john hashes.txt
$ john --format=afs hashes.txt
```

```
$ cat hashes.txt
username:$K4$a8dc8aeaa2c48a97,
$ john hashes.txt
$ john --format=afs hashes.txt
```

```
$ cat hashes.txt
username:$K4$a8dc8aeaa2c48a97,:::::::::
$ john hashes.txt
$ john --format=afs hashes.txt
```

bfegg – Eggdrop

Supported Hash Formats

```
$ cat hashes.txt
+C/.8o.Wuph9.
$ john hashes.txt # Doesn't work. JTR detects hash as "Traditional DES".
$ john --format=bfegg hashes.txt
```

```
$ cat hashes.txt
username:+C/.8o.Wuph9.
$ john hashes.txt # Doesn't work. JTR detects hash as "Traditional DES".
$ john --format=bfegg hashes.txt
```

```
$ cat hashes.txt
username:+C/.8o.Wuph9.:.:.:.:
$ john hashes.txt # Doesn't work. JTR detects hash as "Traditional DES".
$ john --format=bfegg hashes.txt
```

bf – OpenBSD Blowfish

Supported Hash Formats

```
$ cat hashes.txt
$2a$05$CCCCCCCCCCCCCCCCCCCC.7uG0VCzI2bS7j6ymqJi9CdcxiRTWNy
$ john hashes.txt
$ john --format=bf hashes.txt
```

```
$ cat hashes.txt
username:$2a$05$CCCCCCCCCCCCCCCCCCCC.7uG0VCzI2bS7j6ymqJi9CdcxiRTWNy
$ john hashes.txt
$ john --format=bf hashes.txt
```

```
$ cat hashes.txt
username:$2a$05$CCCCCCCCCCCCCCCCCCCC.7uG0VCzI2bS7j6ymqJi9CdcxiRTWNy.:.:.:.
```

```
$ john hashes.txt  
$ john --format=bf hashes.txt
```

bsdi – BSDI DES

Supported Hash Formats

```
$ cat hashes.txt  
_J9..SDSD5YGyRCr4W4c  
$ john hashes.txt  
$ john --format=bsdi hashes.txt
```

```
$ cat hashes.txt  
username:_J9..SDSD5YGyRCr4W4c  
$ john hashes.txt  
$ john --format=bsdi hashes.txt
```

```
$ cat hashes.txt  
username:_J9..SDSD5YGyRCr4W4c:::::::  
$ john hashes.txt  
$ john --format=bsdi hashes.txt
```

crypt – generic crypt(3)

Supported Hash Formats

```
$ cat hashes.txt  
SDbsugeBiC58A
```

```
$ john hashes.txt # Doesn't work. JTR detects hash as "Traditional DES".  
$ john --format=crypt hashes.txt
```

```
$ cat hashes.txt  
username:SDbsugeBiC58A  
$ john hashes.txt # Doesn't work. JTR detects hash as "Traditional DES".  
$ john --format=crypt hashes.txt
```

```
$ cat hashes.txt  
username:SDbsugeBiC58A:::::  
$ john hashes.txt # Doesn't work. JTR detects hash as "Traditional DES".  
$ john --format=crypt hashes.txt
```

des – Traditional DES

Supported Hash Formats

```
$ cat hashes.txt  
SDbsugeBiC58A  
$ john hashes.txt  
$ john --format=des hashes.txt
```

```
$ cat hashes.txt  
username:SDbsugeBiC58A  
$ john hashes.txt  
$ john --format=des hashes.txt
```

```
$ cat hashes.txt
username:SDbsugeBiC58A:::::
$ john hashes.txt
$ john --format=des hashes.txt
```

dmd5 – DIGEST-MD5

Supported Hash Formats

TODO: No working example yet.

dominosec – More Secure Internet Password

Supported Hash Formats

```
$ cat hashes.txt
(GVMroLzc50YK/Yd+L8KH)
$ john hashes.txt
$ john --format=dominosec hashes.txt
```

```
$ cat hashes.txt
username:(GVMroLzc50YK/Yd+L8KH)
$ john hashes.txt
$ john --format=dominosec hashes.txt
```

```
$ cat hashes.txt
username:(GVMroLzc50YK/Yd+L8KH):::::
$ john hashes.txt
$ john --format=dominosec hashes.txt
```

<none> – EPiServer SID Hashes

Supported Hash Formats

```
$ cat hashes.txt
0x5F1D84A6DE97E2BEFB637A3CB5318AFE0750B856CF1836BD1D4470175BE 0x4D5EFDFA143EDF74193076F174AC47CEBF2F417F
$ john hashes.txt
$ # NB: There is no --format option for this hash type
```

```
$ cat hashes.txt
username:0x5F1D84A6DE97E2BEFB637A3CB5318AFE0750B856CF1836BD1D4470175BE
0x4D5EFDFA143EDF74193076F174AC47CEBF2F417F
$ john hashes.txt
$ # NB: There is no --format option for this hash type
```

```
$ cat hashes.txt
username:0x5F1D84A6DE97E2BEFB637A3CB5318AFE0750B856CF1836BD1D4470175BE
0x4D5EFDFA143EDF74193076F174AC47CEBF2F417F:::
$ john hashes.txt
$ # NB: There is no --format option for this hash type
```

hdaa – HTTP Digest access authentication

Supported Hash Formats

```
$ cat hashes.txt
$response$679066476e67b5c7c4e88f04be567f8b$user$myrealm$GET$/$8c12bd8f728afe56d45a0ce846b70e5a$00000001$4
b61913cec32e2c9$auth
$ john hashes.txt
$ john --format=hdaa hashes.txt
```

```
$ cat hashes.txt
username:$response$679066476e67b5c7c4e88f04be567f8b$user$myrealm$GET$/$8c12bd8f728afe56d45a0ce846b70e5a$0
0000001$4b61913cec32e2c9$auth
$ john hashes.txt
$ john --format=hdaa hashes.txt
```

```
$ cat hashes.txt
username:$response$679066476e67b5c7c4e88f04be567f8b$user$myrealm$GET$/$8c12bd8f728afe56d45a0ce846b70e5a$0
0000001$4b61913cec32e2c9$auth:::::::::
$ john hashes.txt
$ john --format=hdaa hashes.txt
```

hmac-md5 – HMAC MD5

Supported Hash Formats

```
$ cat hashes.txt
what do ya want for nothing?#750c783e6ab0b503eaa86e310a5db738
$ john hashes.txt
$ john --format=hmac-md5 hashes.txt
```

```
$ cat hashes.txt
username:what do ya want for nothing?#750c783e6ab0b503eaa86e310a5db738
$ john hashes.txt
$ john --format=hmac-md5 hashes.txt
```



```
$ cat hashes.txt
username:what do ya want for nothing?#750c783e6ab0b503eaa86e310a5db738:::::::::
$ john hashes.txt
$ john --format=hmac-md5 hashes.txt
```

hmailserver – hmailserver

Supported Hash Formats

```
$ cat hashes.txt
cc06fa688a64cdeea43d3c0fb761fede7e3ccf00a9daea9c79f7d458e06f88327f16dd
$ john hashes.txt
$ john --format=hmailserver hashes.txt
```

```
$ cat hashes.txt
username:cc06fa688a64cdeea43d3c0fb761fede7e3ccf00a9daea9c79f7d458e06f88327f16dd
$ john hashes.txt
$ john --format=hmailserver hashes.txt
```

```
$ cat hashes.txt
username:cc06fa688a64cdeea43d3c0fb761fede7e3ccf00a9daea9c79f7d458e06f88327f16dd:::::::::
$ john hashes.txt
$ john --format=hmailserver hashes.txt
```

ipb2 – IPB2 MD5

Supported Hash Formats

```
$ cat hashes.txt
$IPB2$2e75504633$d891f03a7327639bc632d62a7f302604
$ john hashes.txt
$ john --format=ipb2 hashes.txt
```

```
$ cat hashes.txt
username:$IPB2$2e75504633$d891f03a7327639bc632d62a7f302604
$ john hashes.txt
$ john --format=ipb2 hashes.txt
```

```
$ cat hashes.txt
username:$IPB2$2e75504633$d891f03a7327639bc632d62a7f302604::::::
$ john hashes.txt
$ john --format=ipb2 hashes.txt
```

krb4 – Kerberos v4 TGT

Supported Hash Formats

```
$ cat hashes.txt
$af$ENGIN.UMICH.EDU$44feffd06e68e30bc8890e253760858d
$ john hashes.txt
$ john --format=krb4 hashes.txt
```

```
$ cat hashes.txt
username:$af$ENGIN.UMICH.EDU$44feffd06e68e30bc8890e253760858d
$ john hashes.txt
$ john --format=krb4 hashes.txt
```

```
$ cat hashes.txt
username:$af$ENGIN.UMICH.EDU$44feffd06e68e30bc8890e253760858d:::
$ john hashes.txt
$ john --format=krb4 hashes.txt
```

krb5 – Kerberos v5 TGT

Supported Hash Formats

```
$ cat hashes.txt
$krb5$oskov$ACM.UIUC.EDU$4730d7249765615d6f3652321c4fb76d09fb9cd06faeb0c31b8737f9fdfcde4bd4259c31cb1dff25
df39173b09abdf08373302d99ac09802a290915243d9f0ea0313fdedc7f8d1fae0d9df8f0ee6233818d317f03a72c2e77b480b2b
c50d1ca14fba85133ea00e472c50dbc825291e2853bd60a969ddb69dae35b604b34ea2c2265a4ffc72e9fb811da17c7f2887ccb17
e2f87cd1f6c28a9afc0c083a9356a9ee2a28d2e4a01fc7ea90cc8836b8e25650c3a1409b811d0bad42a59aa418143291d42d7b1e6
cb5b1876a4cc758d721323a762e943f774630385c9faa68df6f3a94422f97
$ john hashes.txt
$ john --format=krb5 hashes.txt
```

```
$ cat hashes.txt
username:$krb5$oskov$ACM.UIUC.EDU$4730d7249765615d6f3652321c4fb76d09fb9cd06faeb0c31b8737f9fdfcde4bd4259c3
1cb1dff25df39173b09abdf08373302d99ac09802a290915243d9f0ea0313fdedc7f8d1fae0d9df8f0ee6233818d317f03a72c2e
77b480b2bc50d1ca14fba85133ea00e472c50dbc825291e2853bd60a969ddb69dae35b604b34ea2c2265a4ffc72e9fb811da17c7f
2887ccb17e2f87cd1f6c28a9afc0c083a9356a9ee2a28d2e4a01fc7ea90cc8836b8e25650c3a1409b811d0bad42a59aa418143291
d42d7b1e6cb5b1876a4cc758d721323a762e943f774630385c9faa68df6f3a94422f97
$ john hashes.txt
$ john --format=krb5 hashes.txt
```

```
$ cat hashes.txt
username:$krb5$oskov$ACM.UIUC.EDU$4730d7249765615d6f3652321c4fb76d09fb9cd06faeb0c31b8737f9fdfcde4bd4259c3
1cb1dff25df39173b09abdf08373302d99ac09802a290915243d9f0ea0313fdedc7f8d1fae0d9df8f0ee6233818d317f03a72c2e
```

```
77b480b2bc50d1ca14fba85133ea00e472c50dbc825291e2853bd60a969ddb69dae35b604b34ea2c2265a4ffc72e9fb811da17c7f
2887ccb17e2f87cd1f6c28a9afc0c083a9356a9ee2a28d2e4a01fc7ea90cc8836b8e25650c3a1409b811d0bad42a59aa418143291
d42d7b1e6cb5b1876a4cc758d721323a762e943f774630385c9faa68df6f3a94422f97:::::::::
$ john hashes.txt
$ john --format=krb5 hashes.txt
```

lm – LM DES

Supported Hash Formats

```
$ cat hashes.txt
$LM$a9c604d244c4e99d
$ john hashes.txt
$ john --format=lm hashes.txt
```

```
$ cat hashes.txt
username:$LM$a9c604d244c4e99d
$ john hashes.txt
$ john --format=lm hashes.txt
```

```
$ cat hashes.txt
username:$LM$a9c604d244c4e99d:::::::::
$ john hashes.txt
$ john --format=lm hashes.txt
```

lotus5 – Lotus5

Supported Hash Formats

```
$ cat hashes.txt
355E98E7C7B59BD810ED845AD0FD2FC4
$ john hashes.txt # Doesn't work. JTR detects hash as "LM DES".
$ john --format=lotus5 hashes.txt
```

```
$ cat hashes.txt
username:355E98E7C7B59BD810ED845AD0FD2FC4
$ john hashes.txt # Doesn't work. JTR detects hash as "LM DES".
$ john --format=lotus5 hashes.txt
```

```
$ cat hashes.txt
username:355E98E7C7B59BD810ED845AD0FD2FC4:::
$ john hashes.txt # Doesn't work. JTR detects hash as "LM DES".
$ john --format=lotus5 hashes.txt
```

md4-gen – Generic salted MD4

Supported Hash Formats

```
$ cat hashes.txt
$MD4p$salt$15ad2b7a23e5088942f9d3772181b384
$ john hashes.txt
$ john --format=md4-gen hashes.txt
```

```
$ cat hashes.txt
username:$MD4p$salt$15ad2b7a23e5088942f9d3772181b384
$ john hashes.txt
$ john --format=md4-gen hashes.txt
```

```
$ cat hashes.txt
username:$MD4p$salt$15ad2b7a23e5088942f9d3772181b384:::
$ john hashes.txt
$ john --format=md4-gen hashes.txt
```

md5 – FreeBSD MD5

Supported Hash Formats

```
$ cat hashes.txt
$1$12345678$aIccj83HRDBo6ux1bVx7D1
$ john hashes.txt
$ john --format=md5 hashes.txt
```

```
$ cat hashes.txt
username:$1$12345678$aIccj83HRDBo6ux1bVx7D1
$ john hashes.txt
$ john --format=md5 hashes.txt
```

```
$ cat hashes.txt
username:$1$12345678$aIccj83HRDBo6ux1bVx7D1:::
$ john hashes.txt
$ john --format=md5 hashes.txt
```

```
$ cat hashes.txt
$apr1$Q6ZYh...$RV6ft2bZ8j.NGrxLYaJt9.
$ john hashes.txt
$ john --format=md5 hashes.txt
```

```
$ cat hashes.txt
username:$apr1$Q6ZYh...$RV6ft2bZ8j.NGrxLYaJt9.
$ john hashes.txt
$ john --format=md5 hashes.txt
```

```
$ cat hashes.txt
username:$apr1$Q6ZYh...$RV6ft2bZ8j.NGrxLYaJt9.:.:.:.:
$ john hashes.txt
$ john --format=md5 hashes.txt
```

md5-gen – Generic MD5

Supported Hash Formats

TODO: No working example yet.

mediawiki – MediaWiki MD5s

Supported Hash Formats

```
$ cat hashes.txt
$B$113$de2874e33da25313d808d2a8cbf31485
$ john hashes.txt
$ john --format=mediawiki hashes.txt
```

```
$ cat hashes.txt
username:$B$113$de2874e33da25313d808d2a8cbf31485
$ john hashes.txt
$ john --format=mediawiki hashes.txt
```

```
$ cat hashes.txt
username:$B$113$de2874e33da25313d808d2a8cbf31485:.....
$ john hashes.txt
$ john --format=mediawiki hashes.txt
```

mscash – M\$ Cache Hash

Supported Hash Formats

```
$ cat hashes.txt
M$test1#64cd29e36a8431a2b111378564a10631
$ john hashes.txt # Doesn't work. JTR detects hash as "HMAC MD5".
$ john --format=mscash hashes.txt
```

```
$ cat hashes.txt
username:M$test1#64cd29e36a8431a2b111378564a10631
$ john hashes.txt # Doesn't work. JTR detects hash as "HMAC MD5".
$ john --format=mscash hashes.txt
```

```
$ cat hashes.txt
username:M$test1#64cd29e36a8431a2b111378564a10631:.....
$ john hashes.txt # Doesn't work. JTR detects hash as "HMAC MD5".
$ john --format=mscash hashes.txt
```

mscash2 – M\$ Cache Hash 2 (DCC2)

Supported Hash Formats


```
$ cat hashes.txt
$DCC2$10240#test1#607bbe89611e37446e736f7856515bf8
$ john hashes.txt # Doesn't work. JTR detects hash as "M$ Cache Hash".
$ john --format=mscash2 hashes.txt
```

```
$ cat hashes.txt
username:$DCC2$10240#test1#607bbe89611e37446e736f7856515bf8
$ john hashes.txt
$ john --format=mscash2 hashes.txt
```

```
$ cat hashes.txt
username:$DCC2$10240#test1#607bbe89611e37446e736f7856515bf8::::::::
$ john hashes.txt
$ john --format=mscash2 hashes.txt
```

mschapv2 – MSCHAPv2 C/R MD4 DES

Supported Hash Formats

```
$ cat hashes.txt
$MSCHAPv2$d94e7c7972b2376b28c268583e162de7$eba25a3b04d2c7085d01f842e2befc91745c40db0f792356$0677ca7318fd7f65ae1b4f58c9f4f400$lameuser
$ john hashes.txt
$ john --format=mschapv2 hashes.txt
```

```
$ cat hashes.txt
username:$MSCHAPv2$d94e7c7972b2376b28c268583e162de7$eba25a3b04d2c7085d01f842e2befc91745c40db0f792356$0677ca7318fd7f65ae1b4f58c9f4f400$lameuser
```

```
$ john hashes.txt
$ john --format=mschapv2 hashes.txt
```

```
$ cat hashes.txt
username:$MSCHAPv2$d94e7c7972b2376b28c268583e162de7$eba25a3b04d2c7085d01f842e2befc91745c40db0f792356$0677
ca7318fd7f65ae1b4f58c9f4f400$lameuser:::::::::
$ john hashes.txt
$ john --format=mschapv2 hashes.txt
```

mskrb5 – MS Kerberos 5 AS-REQ Pre-Auth

Supported Hash Formats

```
$ cat hashes.txt
$mskrb5$$$98cd00b6f222d1d34e08fe0823196e0b$5937503ec29e3ce4e94a051632d0fff7b6781f93e3decf7dca707340239300
d602932154
$ john hashes.txt
$ john --format=mskrb5 hashes.txt
```

```
$ cat hashes.txt
username:$mskrb5$$$98cd00b6f222d1d34e08fe0823196e0b$5937503ec29e3ce4e94a051632d0fff7b6781f93e3decf7dca707
340239300d602932154
$ john hashes.txt
$ john --format=mskrb5 hashes.txt
```

```
$ cat hashes.txt
username:$mskrb5$$$98cd00b6f222d1d34e08fe0823196e0b$5937503ec29e3ce4e94a051632d0fff7b6781f93e3decf7dca707
340239300d602932154:::::::::
```

```
$ john hashes.txt
$ john --format=mskrb5 hashes.txt
```

mssql05 – MS-SQL05

Supported Hash Formats

```
$ cat hashes.txt
0x01004086CEB6BF932BC4151A1AF1F13CD17301D70816A8886908
$ john hashes.txt
$ john --format=mssql05 hashes.txt
```

```
$ cat hashes.txt
username:0x01004086CEB6BF932BC4151A1AF1F13CD17301D70816A8886908
$ john hashes.txt
$ john --format=mssql05 hashes.txt
```

```
$ cat hashes.txt
username:0x01004086CEB6BF932BC4151A1AF1F13CD17301D70816A8886908:::
$ john hashes.txt
$ john --format=mssql05 hashes.txt
```

mssql – MS-SQL

Supported Hash Formats

```
$ cat hashes.txt
0x0100A607BA7C54A24D17B565C59F1743776A10250F581D482DA8B6D6261460D3F53B279CC6913CE747006A2E3254
```

```
$ john hashes.txt
$ john --format=mssql hashes.txt
```

```
$ cat hashes.txt
username:0x0100A607BA7C54A24D17B565C59F1743776A10250F581D482DA8B6D6261460D3F53B279CC6913CE747006A2E3254
$ john hashes.txt
$ john --format=mssql hashes.txt
```

```
$ cat hashes.txt
username:0x0100A607BA7C54A24D17B565C59F1743776A10250F581D482DA8B6D6261460D3F53B279CC6913CE747006A2E3254::
::::
$ john hashes.txt
$ john --format=mssql hashes.txt
```

mysql-fast – MYSQL_fast

Supported Hash Formats

```
$ cat hashes.txt
60671c896665c3fa
$ john hashes.txt
$ john --format=mysql-fast hashes.txt
```

```
$ cat hashes.txt
username:60671c896665c3fa
$ john hashes.txt
$ john --format=mysql-fast hashes.txt
```

```
$ cat hashes.txt
username:60671c896665c3fa:::::::
$ john hashes.txt
$ john --format=mysql-fast hashes.txt
```

mysql – MYSQL

Supported Hash Formats

```
$ cat hashes.txt
5d2e19393cc5ef67
$ john hashes.txt # Doesn't work. JTR detects hash as "MYSQL_fast".
$ john --format=mysql hashes.txt
```

```
$ cat hashes.txt
username:5d2e19393cc5ef67
$ john hashes.txt # Doesn't work. JTR detects hash as "MYSQL_fast".
$ john --format=mysql hashes.txt
```

```
$ cat hashes.txt
username:5d2e19393cc5ef67:::::::
$ john hashes.txt # Doesn't work. JTR detects hash as "MYSQL_fast".
$ john --format=mysql hashes.txt
```

mysql-sha1 – MySQL 4.1 double-SHA-1

Supported Hash Formats

```
$ cat hashes.txt
*2470C0C06DEE42FD1618BB99005ADCA2EC9D1E19
$ john hashes.txt
$ john --format=mysql-sha1 hashes.txt
```

```
$ cat hashes.txt
username:*2470C0C06DEE42FD1618BB99005ADCA2EC9D1E19
$ john hashes.txt
$ john --format=mysql-sha1 hashes.txt
```

```
$ cat hashes.txt
username:*2470C0C06DEE42FD1618BB99005ADCA2EC9D1E19:::
$ john hashes.txt
$ john --format=mysql-sha1 hashes.txt
```

netlm – LM C/R DES

Supported Hash Formats

```
$ cat hashes.txt
$NETLM$1122334455667788$0836F085B124F33895875FB1951905DD2F85252CC731BB25
$ john hashes.txt
$ john --format=netlm hashes.txt
```

```
$ cat hashes.txt
username:$NETLM$1122334455667788$0836F085B124F33895875FB1951905DD2F85252CC731BB25
$ john hashes.txt
$ john --format=netlm hashes.txt
```

```
$ cat hashes.txt
username:$NETLM$1122334455667788$0836F085B124F33895875FB1951905DD2F85252CC731BB25:::
$ john hashes.txt
$ john --format=netlm hashes.txt
```

netlmv2 – LMv2 C/R MD4 HMAC-MD5

Supported Hash Formats

```
$ cat hashes.txt
$NETLMv2$USER1$1122334455667788$B1D163EA5881504F3963DC50FCDC26C1$EB4D9E8138149E20
$ john hashes.txt
$ john --format=netlmv2 hashes.txt
```

```
$ cat hashes.txt
username:$NETLMv2$USER1$1122334455667788$B1D163EA5881504F3963DC50FCDC26C1$EB4D9E8138149E20
$ john hashes.txt
$ john --format=netlmv2 hashes.txt
```

```
$ cat hashes.txt
username:$NETLMv2$USER1$1122334455667788$B1D163EA5881504F3963DC50FCDC26C1$EB4D9E8138149E20:::
$ john hashes.txt
$ john --format=netlmv2 hashes.txt
```

netntlm – NTLMv1 C/R MD4 DES [ESS MD5]

Supported Hash Formats

```
$ cat hashes.txt
$NETNTLM$1122334455667788$B2B2220790F40C88BCFF347C652F67A7C4A70D3BEBD70233
$ john hashes.txt
$ john --format=netntlm hashes.txt
```

```
$ cat hashes.txt
username:$NETNTLM$1122334455667788$B2B2220790F40C88BCFF347C652F67A7C4A70D3BEBD70233
$ john hashes.txt
$ john --format=netntlm hashes.txt
```

```
$ cat hashes.txt
username:$NETNTLM$1122334455667788$B2B2220790F40C88BCFF347C652F67A7C4A70D3BEBD70233:::
$ john hashes.txt
$ john --format=netntlm hashes.txt
```

netntlmv2 – NTLMv2 C/R MD4 HMAC-MD5

Supported Hash Formats

```
$ cat hashes.txt  
$NETNTLMv2$Ntlmv2TestWoRkGR0UP$1122334455667788$07659A550D5E9D02996DFD95C87EC1D5$01010000000000000000CF638  
5B74CA01B3610B02D99732DD000000000200120057004F0052004B00470052004F00550050000100200044004100540041002E004  
20049004E0043002D005300450043005500520049000000000000  
  
$ john hashes.txt  
  
$ john --format=netntlmv2 hashes.txt
```

```
$ cat hashes.txt
username:$NETNTLMv2$NTLMV2TESTWORKGROUP$1122334455667788$07659A550D5E9D02996DFD95C87EC1D5$0101000000000000
0006CF6385B74CA01B3610B02D99732DD000000000200120057004F0052004B00470052004F005500500001002000440041005400
```



```
41002E00420049004E0043002D0053004500430055005200490000000000
$ john hashes.txt
$ john --format=netntlmv2 hashes.txt
```

```
$ cat hashes.txt
username:$NETNTLMv2$NTLMV2TESTWORKGROUP$1122334455667788$07659A550D5E9D02996DFD95C87EC1D5$0101000000000000
0006CF6385B74CA01B3610B02D99732DD000000000200120057004F0052004B00470052004F005500500001002000440041005400
41002E00420049004E0043002D0053004500430055005200490000000000:::
$ john hashes.txt
$ john --format=netntlmv2 hashes.txt
```

nethalflm – HalfLM C/R DES

Supported Hash Formats

```
$ cat hashes.txt
$NETHALFLM$1122334455667788$6E1EC36D3417CE9E09A4424309F116C4C991948DAEB4ADAD
$ john hashes.txt
$ john --format=nethalflm hashes.txt
```

```
$ cat hashes.txt
username:$NETHALFLM$1122334455667788$6E1EC36D3417CE9E09A4424309F116C4C991948DAEB4ADAD
$ john hashes.txt
$ john --format=nethalflm hashes.txt
```

```
$ cat hashes.txt
username:$NETHALFLM$1122334455667788$6E1EC36D3417CE9E09A4424309F116C4C991948DAEB4ADAD:::
$ john hashes.txt
$ john --format=nethalflm hashes.txt
```

md5ns – Netscreen MD5

Supported Hash Formats

```
$ cat hashes.txt
admin$nMjFM0rdC9i0c+xFsGEm3LtAeGZhn
$ john hashes.txt
$ john --format=md5ns hashes.txt
```

```
$ cat hashes.txt
username:admin$nMjFM0rdC9i0c+xFsGEm3LtAeGZhn
$ john hashes.txt
$ john --format=md5ns hashes.txt
```

```
$ cat hashes.txt
username:admin$nMjFM0rdC9i0c+xFsGEm3LtAeGZhn:::
$ john hashes.txt
$ john --format=md5ns hashes.txt
```

nsldap – Netscape LDAP SHA

Supported Hash Formats

```
$ cat hashes.txt
{SHA}cMiB1KJphN30eV9vcYF8nPRIDnk=
$ john hashes.txt
$ john --format=nsldap hashes.txt
```

```
$ cat hashes.txt
username:{SHA}cMiB1KJphN30eV9vcYF8nPRIDnk=
$ john hashes.txt
$ john --format=nsldap hashes.txt
```

```
$ cat hashes.txt
username:{SHA}cMiB1KJphN30eV9vcYF8nPRIDnk=:::::::
$ john hashes.txt
$ john --format=nsldap hashes.txt
```

ssha – Netscape LDAP SSHA

Supported Hash Formats

```
$ cat hashes.txt
{SSHA}WTT3B9JjR8g0t0Q7WMs9/XvukyHTQj0Ns0jMKQ==
$ john hashes.txt
$ john --format=ssha hashes.txt
```

```
$ cat hashes.txt
username:{SSHA}WTT3B9Jjr8g0t0Q7WMs9/XvukyhTQj0Ns0jMKQ==
$ john hashes.txt
$ john --format=ssha hashes.txt
```

```
$ cat hashes.txt
username:{SSHA}WTT3B9Jjr8g0t0Q7WMs9/XvukyhTQj0Ns0jMKQ==:::
$ john hashes.txt
$ john --format=ssh hashes.txt
```

nt – NT MD4

Supported Hash Formats

```
$ cat hashes.txt
$NT$8846f7eaae8fb117ad06bdd830b7586c
$ john hashes.txt
$ john --format=nt hashes.txt
```

```
$ cat hashes.txt
username:$NT$8846f7eaae8fb117ad06bdd830b7586c
$ john hashes.txt
$ john --format=nt hashes.txt
```

```
$ cat hashes.txt
username:$NT$8846f7eaae8fb117ad06bdd830b7586c:::::::::
$ john hashes.txt
$ john --format=nt hashes.txt
```

openssha – OpenLDAP SSHA

Supported Hash Formats

```
$ cat hashes.txt
{SSHA}hHSEPW3qei0o5Pl2MpHQCXh0vgfyVR/X
$ john hashes.txt
$ john --format=openssha hashes.txt
```

```
$ cat hashes.txt
username:{SSHA}hHSEPW3qei0o5Pl2MpHQCXh0vgfyVR/X
$ john hashes.txt
$ john --format=openssha hashes.txt
```

```
$ cat hashes.txt
username:{SSHA}hHSEPW3qei0o5Pl2MpHQCXh0vgfyVR/X:::
$ john hashes.txt
$ john --format=openssha hashes.txt
```

oracle11 – Oracle 11g

Supported Hash Formats

```
$ cat hashes.txt
5FDAB69F543563582BA57894FE1C1361FB8ED57B903603F2C52ED1B4D642
$ john hashes.txt
$ john --format=oracle11 hashes.txt
```

```
$ cat hashes.txt
username:5FDAB69F543563582BA57894FE1C1361FB8ED57B903603F2C52ED1B4D642
$ john hashes.txt
$ john --format=oracle11 hashes.txt
```

```
$ cat hashes.txt
username:5FDAB69F543563582BA57894FE1C1361FB8ED57B903603F2C52ED1B4D642:::
$ john hashes.txt
$ john --format=oracle11 hashes.txt
```

oracle – Oracle

Supported Hash Formats

```
$ cat hashes.txt
0$SIMON#4F8BC1809CB2AF77
$ john hashes.txt
$ john --format=oracle hashes.txt
```

```
$ cat hashes.txt
username:0$SIMON#4F8BC1809CB2AF77
$ john hashes.txt
$ john --format=oracle hashes.txt
```

```
$ cat hashes.txt
username:0$SIMON#4F8BC1809CB2AF77:::
$ john hashes.txt
$ john --format=oracle hashes.txt
```

pdf – pdf

Supported Hash Formats

```
$ cat hashes.txt
$pdf$Standard*badad1e86442699427116d3e5d5271bc80a27814fc5e80f815efeeef839354c5f*289ece9b5ce451a5d7064693da
b3badf101112131415161718191a1b1c1d1e1f*16*34b1b6e593787af681a9b63fa8bf563b*1*1*0*1*4*128*-4*3*2
$ john hashes.txt
$ john --format=pdf hashes.txt
```

```
$ cat hashes.txt
username:$pdf$Standard*badad1e86442699427116d3e5d5271bc80a27814fc5e80f815efeeef839354c5f*289ece9b5ce451a5d
7064693dab3badf101112131415161718191a1b1c1d1e1f*16*34b1b6e593787af681a9b63fa8bf563b*1*1*0*1*4*128*-4*3*2
$ john hashes.txt
$ john --format=pdf hashes.txt
```

```
$ cat hashes.txt
username:$pdf$Standard*badad1e86442699427116d3e5d5271bc80a27814fc5e80f815efeeef839354c5f*289ece9b5ce451a5d
7064693dab3badf101112131415161718191a1b1c1d1e1f*16*34b1b6e593787af681a9b63fa8bf563b*1*1*0*1*4*128*-4*3*2:
::::::
$ john hashes.txt
$ john --format=pdf hashes.txt
```

phpass-md5 – PHPass MD5

Supported Hash Formats

```
$ cat hashes.txt
$H$9aaaaaSXBjgypwqm.JsMssPLiS8YQ00
$ john hashes.txt
$ john --format=phpass-md5 hashes.txt
```

```
$ cat hashes.txt
username:$H$9aaaaaSXBjgypwqm.JsMssPLiS8YQ00
$ john hashes.txt
$ john --format=phpass-md5 hashes.txt
```

```
$ cat hashes.txt
username:$H$9aaaaaSXBjgypwqm.JsMssPLiS8YQ00:::::::
```

```
$ john hashes.txt
$ john --format=phpass-md5 hashes.txt
```

phps – PHPS MD5

Supported Hash Formats

```
$ cat hashes.txt
$PHPS$433925$5d756853cd63acee76e6dcd6d3728447
$ john hashes.txt
$ john --format=phps hashes.txt
```

```
$ cat hashes.txt
username:$PHPS$433925$5d756853cd63acee76e6dcd6d3728447
$ john hashes.txt
$ john --format=phps hashes.txt
```

```
$ cat hashes.txt
username:$PHPS$433925$5d756853cd63acee76e6dcd6d3728447:::::::::
$ john hashes.txt
$ john --format=phps hashes.txt
```

pix-md5 – PIX MD5

Supported Hash Formats

```
$ cat hashes.txt
NuLKvvWGg.x9HEK0
```



```
$ john hashes.txt
$ john --format=pix-md5 hashes.txt
```

```
$ cat hashes.txt
username:NuLKvvWg.x9HEK0
$ john hashes.txt
$ john --format=pix-md5 hashes.txt
```

```
$ cat hashes.txt
username:NuLKvvWg.x9HEK0::::::
$ john hashes.txt
$ john --format=pix-md5 hashes.txt
```

po – Post.Office MD5

Supported Hash Formats

```
$ cat hashes.txt
0c78bdef7d5448105cfbbc9aaa490a44550c41c11bab48f9dbd8203ed313eef0
$ john hashes.txt
$ john --format=po hashes.txt
```

```
$ cat hashes.txt
username:0c78bdef7d5448105cfbbc9aaa490a44550c41c11bab48f9dbd8203ed313eef0
$ john hashes.txt
$ john --format=po hashes.txt
```

```
$ cat hashes.txt
username:0c78bdef7d5448105cfbbc9aaa490a44550c41c11bab48f9dbd8203ed313eef0:.....
$ john hashes.txt
$ john --format=po hashes.txt
```

rar – rar

Supported Hash Formats

```
$ cat hashes.txt
$rar3$*0*c9dea41b149b53b4*fcdb66122d8ebdb32532c22ca7ab9ec*24
$ john hashes.txt
$ john --format=rar hashes.txt
```

```
$ cat hashes.txt
username:$rar3$*0*c9dea41b149b53b4*fcdb66122d8ebdb32532c22ca7ab9ec*24
$ john hashes.txt
$ john --format=rar hashes.txt
```

```
$ cat hashes.txt
username:$rar3$*0*c9dea41b149b53b4*fcdb66122d8ebdb32532c22ca7ab9ec*24:.....
$ john hashes.txt
$ john --format=rar hashes.txt
```

raw-md4 – Raw MD4

Supported Hash Formats

```
$ cat hashes.txt
8a9d093f14f8701df17732b2bb182c74
$ john hashes.txt # Doesn't work. JTR detects hash as "LM DES".
$ john --format=raw-md4 hashes.txt
```

```
$ cat hashes.txt
username:8a9d093f14f8701df17732b2bb182c74
$ john hashes.txt # Doesn't work. JTR detects hash as "LM DES".
$ john --format=raw-md4 hashes.txt
```

```
$ cat hashes.txt
username:8a9d093f14f8701df17732b2bb182c74:::::::::
$ john hashes.txt # Doesn't work. JTR detects hash as "LM DES".
$ john --format=raw-md4 hashes.txt
```

raw-md5 – Raw MD5

Supported Hash Formats

```
$ cat hashes.txt
5a105e8b9d40e1329780d62ea2265d8a
$ john hashes.txt # Doesn't work. JTR detects hash as "LM DES".
$ john --format=raw-md5 hashes.txt
```

```
$ cat hashes.txt
username:5a105e8b9d40e1329780d62ea2265d8a
$ john hashes.txt # Doesn't work. JTR detects hash as "LM DES".
$ john --format=raw-md5 hashes.txt
```

```
$ cat hashes.txt
username:5a105e8b9d40e1329780d62ea2265d8a:::::::
$ john hashes.txt # Doesn't work. JTR detects hash as "LM DES".
$ john --format=raw-md5 hashes.txt
```

raw-md5-unicode – Raw MD5 of Unicode plaintext

Supported Hash Formats

```
$ cat hashes.txt
16c47151c18ac087cd12b3a70746c790
$ john hashes.txt # Doesn't work. JTR detects hash as "LM DES".
$ john --format=raw-md5-unicode hashes.txt
```

```
$ cat hashes.txt
username:16c47151c18ac087cd12b3a70746c790
$ john hashes.txt # Doesn't work. JTR detects hash as "LM DES".
$ john --format=raw-md5-unicode hashes.txt
```

```
$ cat hashes.txt
username:16c47151c18ac087cd12b3a70746c790:::::::
$ john hashes.txt # Doesn't work. JTR detects hash as "LM DES".
$ john --format=raw-md5-unicode hashes.txt
```

raw-sha1 – Raw SHA-1

Supported Hash Formats

```
$ cat hashes.txt
A9993E364706816ABA3E25717850C26C9CD0D89D
$ john hashes.txt
$ john --format=raw-sha1 hashes.txt
```

```
$ cat hashes.txt
username:A9993E364706816ABA3E25717850C26C9CD0D89D
$ john hashes.txt
$ john --format=raw-sha1 hashes.txt
```

```
$ cat hashes.txt
username:A9993E364706816ABA3E25717850C26C9CD0D89D:.....
$ john hashes.txt
$ john --format=raw-sha1 hashes.txt
```

raw-sha224 – Raw SHA-224

Supported Hash Formats

```
$ cat hashes.txt
d63dc919e201d7bc4c825630d2cf25fdc93d4b2f0d46706d29038d01
$ john hashes.txt
$ john --format=raw-sha224 hashes.txt
```

```
$ cat hashes.txt
username:d63dc919e201d7bc4c825630d2cf25fdc93d4b2f0d46706d29038d01
$ john hashes.txt
$ john --format=raw-sha224 hashes.txt
```

```
$ cat hashes.txt
username:d63dc919e201d7bc4c825630d2cf25fdc93d4b2f0d46706d29038d01:::
$ john hashes.txt
$ john --format=raw-sha224 hashes.txt
```

raw-sha256 – Raw SHA-256

Supported Hash Formats

```
$ cat hashes.txt
5e884898da28047151d0e56f8dc6292773603d0d6aabbdd62a11ef721d1542d8
$ john hashes.txt # Doesn't work. JTR detects hash as "Post.Office MD5".
$ john --format=raw-sha256 hashes.txt
```

```
$ cat hashes.txt
username:5e884898da28047151d0e56f8dc6292773603d0d6aabbdd62a11ef721d1542d8
$ john hashes.txt # Doesn't work. JTR detects hash as "Post.Office MD5".
$ john --format=raw-sha256 hashes.txt
```

```
$ cat hashes.txt
username:5e884898da28047151d0e56f8dc6292773603d0d6aabbdd62a11ef721d1542d8:::
$ john hashes.txt # Doesn't work. JTR detects hash as "Post.Office MD5".
$ john --format=raw-sha256 hashes.txt
```

raw-sha384 – Raw SHA-384

Supported Hash Formats

```
$ cat hashes.txt
a8b64babd0aca91a59bdbb7761b421d4f2bb38280d3a75ba0f21f2bebc45583d446c598660c94ce680c47d19c30783a7
$ john hashes.txt
$ john --format=raw-sha384 hashes.txt
```

```
$ cat hashes.txt
username:a8b64babd0aca91a59bdbb7761b421d4f2bb38280d3a75ba0f21f2bebc45583d446c598660c94ce680c47d19c30783a7
$ john hashes.txt
$ john --format=raw-sha384 hashes.txt
```

```
$ cat hashes.txt
username:a8b64babd0aca91a59bdbb7761b421d4f2bb38280d3a75ba0f21f2bebc45583d446c598660c94ce680c47d19c30783a7
:~::~:
$ john hashes.txt
$ john --format=raw-sha384 hashes.txt
```

raw-sha512 – Raw SHA-512

Supported Hash Formats

```
$ cat hashes.txt
b109f3bbbc244eb82441917ed06d618b9008dd09b3befd1b5e07394c706a8bb980b1d7785e5976ec049b46df5f1326af5a2ea6d10
3fd07c95385ffab0cacbc86
$ john hashes.txt
$ john --format=raw-sha512 hashes.txt
```

```
$ cat hashes.txt
username:b109f3bbbc244eb82441917ed06d618b9008dd09b3befd1b5e07394c706a8bb980b1d7785e5976ec049b46df5f1326af
5a2ea6d103fd07c95385ffab0cacbc86
```

```
$ john hashes.txt
$ john --format=raw-sha512 hashes.txt
```

```
$ cat hashes.txt
username:b109f3bbbc244eb82441917ed06d618b9008dd09b3befd1b5e07394c706a8bb980b1d7785e5976ec049b46df5f1326af
5a2ea6d103fd07c95385ffab0cacbc86:::::::::
$ john hashes.txt
$ john --format=raw-sha512 hashes.txt
```

```
$ cat hashes.txt
$SHA512$fa585d89c851dd338a70dcf535aa2a92fee7836dd6aff1226583e88e0996293f16bc009c652826e0fc5c706695a03cddc
e372f139eff4d13959da6f1f5d3eabe
$ john hashes.txt
$ john --format=raw-sha512 hashes.txt
```

```
$ cat hashes.txt
username:$SHA512$fa585d89c851dd338a70dcf535aa2a92fee7836dd6aff1226583e88e0996293f16bc009c652826e0fc5c7066
95a03cddce372f139eff4d13959da6f1f5d3eabe
$ john hashes.txt
$ john --format=raw-sha512 hashes.txt
```

```
$ cat hashes.txt
username:$SHA512$fa585d89c851dd338a70dcf535aa2a92fee7836dd6aff1226583e88e0996293f16bc009c652826e0fc5c7066
95a03cddce372f139eff4d13959da6f1f5d3eabe:::::::::
$ john hashes.txt
$ john --format=raw-sha512 hashes.txt
```

salted-sha – Salted SHA

Supported Hash Formats

```
$ cat hashes.txt
{SSHA}hHSEPW3qei0o5Pl2MpHCXh0vgfyVR/X
$ john hashes.txt # Doesn't work. JTR detects hash as "OpenLDAP SSHA".
$ john --format=salted-sha hashes.txt
```

```
$ cat hashes.txt
username:{SSHA}hHSEPW3qei0o5Pl2MpHCXh0vgfyVR/X
$ john hashes.txt # Doesn't work. JTR detects hash as "OpenLDAP SSHA".
$ john --format=salted-sha hashes.txt
```

```
$ cat hashes.txt
username:{SSHA}hHSEPW3qei0o5Pl2MpHCXh0vgfyVR/X:::
$ john hashes.txt # Doesn't work. JTR detects hash as "OpenLDAP SSHA".
$ john --format=salted-sha hashes.txt
```

sapb – SAP BCODE

Supported Hash Formats

```
$ cat hashes.txt
ROOT                                     $8366A4E9E6B72CB0
$ john hashes.txt
$ john --format=sapb hashes.txt
```

```
$ cat hashes.txt
username:ROOT                                     $8366A4E9E6B72CB0
```

```
$ john hashes.txt  
$ john --format=sapb hashes.txt
```

```
$ cat hashes.txt  
username:R00T $8366A4E9E6B72CB0:::~::~  
$ john hashes.txt  
$ john --format=sapb hashes.txt
```

sapg – SAP CODVN G (PASSCODE)

Supported Hash Formats

```
$ cat hashes.txt  
R00T $1194E38F14B9F3F8DA1B181F14DEB70E7BDCC239  
$ john hashes.txt  
$ john --format=sapg hashes.txt
```

```
$ cat hashes.txt  
username:R00T $1194E38F14B9F3F8DA1B181F14DEB70E7BDCC239  
$ john hashes.txt  
$ john --format=sapg hashes.txt
```

```
$ cat hashes.txt  
username:R00T $1194E38F14B9F3F8DA1B181F14DEB70E7BDCC239:::~::~  
$ john hashes.txt  
$ john --format=sapg hashes.txt
```

sha1-gen – Generic salted SHA-1

Supported Hash Formats

```
$ cat hashes.txt
$SHA1p$salt$59b3e8d637cf97edbe2384cf59cb7453dfe30789
$ john hashes.txt
$ john --format=sha1-gen hashes.txt
```

```
$ cat hashes.txt
username:$SHA1p$salt$59b3e8d637cf97edbe2384cf59cb7453dfe30789
$ john hashes.txt
$ john --format=sha1-gen hashes.txt
```

```
$ cat hashes.txt
username:$SHA1p$salt$59b3e8d637cf97edbe2384cf59cb7453dfe30789:::
$ john hashes.txt
$ john --format=sha1-gen hashes.txt
```

skey – S/Key

Supported Hash Formats

TODO: No working example yet.
TODO: No working example yet.
TODO: No working example yet.
TODO: No working example yet.

ssh – ssh

Supported Hash Formats

```
$ cat hashes.txt
$ssh2$2d2d2d2d424547494e204453412050524956415445204b45592d2d2d2d0a50726f632d547970653a20342c454e43525
9505445440a44454b2d496e666f3a204145532d3132382d4342432c35413830363832373943304634364539383230373135304133
433245433631340a0a2f756954696e4a3452556a6f5a76302b705931694d763163695661724369347a2f62365a694c41615659707
94a31685854327463692b593266334c61614578630a6f357772316141464d3437786d526d476f3832492f76434847413952786735
776147433970574f475a5675555172447355367463556b434d422b325a344753390a354f44474364444b32674e6574446e62324a7
64873714154736d3443633633476468695a30734346594c71796d2b576531774359616c78734f3231572b4f676f0a42336f674646
4977327232462b714a7a714d37415543794c466869357a476d7536534e6558765534477a784750464a4e47306d414f55497761614
e3161446a630a4e326b3462437266796271337a366e436533444273384b3232694e2b3875526e534162434f717a5a584564597155
5959354b6b6a326e654354525458494e64670a512b61535359673379355937626f4b6b6a494f727650555748654f796475512b746
57273414577376e43564a7a72394e387452673271563450557631434b66700a4f49467742372f39736f6d6a59496a71576f61537a
6a784b30633852777a305331706d722b7571726277792b50656f75354d3373656d486c426b4769553237660a776f684b792b4d554
e4862734e6a7973535a53456c4e4b734d4950715449567a5a45316d5646412f30754d477164705133627a424f6a58325a6f366564
46434f0a6d4a34775961765735774d2b6a6d75564b5056564e7939395a78796570304645644c50354b623263345a6c30533966313
42f62366836415069785665377a75760a5662536b4279664a6e797a68494f5942497954374d64773134723441584a56362b5a6f45
7730397769774d3d0a2d2d2d2d454e44204453412050524956415445204b45592d2d2d2d0a*771
$ john hashes.txt
$ john --format=ssh hashes.txt
```

```
$ cat hashes.txt
username:$ssh2$2d2d2d2d424547494e204453412050524956415445204b45592d2d2d2d0a50726f632d547970653a20342c
454e435259505445440a44454b2d496e666f3a204145532d3132382d4342432c35413830363832373943304634364539383230373
135304133433245433631340a0a2f756954696e4a3452556a6f5a76302b705931694d763163695661724369347a2f62365a694c41
61565970794a31685854327463692b593266334c61614578630a6f357772316141464d3437786d526d476f3832492f76434847413
952786735776147433970574f475a5675555172447355367463556b434d422b325a344753390a354f44474364444b32674e657444
6e62324a764873714154736d3443633633476468695a30734346594c71796d2b576531774359616c78734f3231572b4f676f0a423
36f6746464977327232462b714a7a714d37415543794c466869357a476d7536534e6558765534477a784750464a4e47306d414f55
497761614e3161446a630a4e326b3462437266796271337a366e436533444273384b3232694e2b3875526e534162434f717a5a584
5645971555959354b6b6a326e654354525458494e64670a512b61535359673379355937626f4b6b6a494f727650555748654f7964
75512b74657273414577376e43564a7a72394e387452673271563450557631434b66700a4f49467742372f39736f6d6a59496a715
76f61537a6a784b30633852777a305331706d722b7571726277792b50656f75354d3373656d486c426b4769553237660a776f684b
792b4d554e4862734e6a7973535a53456c4e4b734d4950715449567a5a45316d5646412f30754d477164705133627a424f6a58325
a6f36656446434f0a6d4a34775961765735774d2b6a6d75564b5056564e7939395a78796570304645644c50354b623263345a6c30
53396631342f62366836415069785665377a75760a5662536b4279664a6e797a68494f5942497954374d64773134723441584a563
62b5a6f457730397769774d3d0a2d2d2d2d454e44204453412050524956415445204b45592d2d2d2d0a*771
```

```
$ john hashes.txt
$ john --format=ssh hashes.txt
```

```
$ cat hashes.txt
username:$ssh2$2d2d2d2d424547494e204453412050524956415445204b45592d2d2d2d0a50726f632d547970653a20342c
454e435259505445440a44454b2d496e666f3a204145532d3132382d4342432c35413830363832373943304634364539383230373
135304133433245433631340a0a2f756954696e4a3452556a6f5a76302b705931694d763163695661724369347a2f62365a694c41
61565970794a31685854327463692b593266334c61614578630a6f357772316141464d3437786d526d476f3832492f76434847413
952786735776147433970574f475a567555172447355367463556b434d422b325a344753390a354f44474364444b32674e657444
6e62324a764873714154736d3443633633476468695a30734346594c71796d2b576531774359616c78734f3231572b4f676f0a423
36f6746464977327232462b714a7a714d37415543794c466869357a476d7536534e6558765534477a784750464a4e47306d414f55
497761614e3161446a630a4e326b3462437266796271337a366e436533444273384b3232694e2b3875526e534162434f717a5a584
5645971555959354b6b6a326e654354525458494e64670a512b61535359673379355937626f4b6b6a494f727650555748654f7964
75512b74657273414577376e43564a7a72394e387452673271563450557631434b66700a4f49467742372f39736f6d6a59496a715
76f61537a6a784b30633852777a305331706d722b7571726277792b50656f75354d3373656d486c426b4769553237660a776f684b
792b4d554e4862734e6a7973535a53456c4e4b734d4950715449567a5a45316d5646412f30754d477164705133627a424f6a58325
a6f36656446434f0a6d4a34775961765735774d2b6a6d75564b5056564e7939395a78796570304645644c50354b623263345a6c30
53396631342f62366836415069785665377a75760a5662536b4279664a6e797a68494f5942497954374d64773134723441584a563
62b5a6f457730397769774d3d0a2d2d2d2d454e44204453412050524956415445204b45592d2d2d2d0a*771:::~::~:
$ john hashes.txt
$ john --format=ssh hashes.txt
```

sybasease – sybasease

Supported Hash Formats

```
$ cat hashes.txt
0xc0074BE393C06BE420AD541671aa5e6f1a19a4a73bb51c59f45790f0887cfb70e0599747c6844d4556b3
$ john hashes.txt
$ john --format=sybasease hashes.txt
```

```
$ cat hashes.txt
username:0xc0074BE393C06BE420AD541671aa5e6f1a19a4a73bb51c59f45790f0887cfb70e0599747c6844d4556b3
$ john hashes.txt
$ john --format=sybasease hashes.txt
```

```
$ cat hashes.txt
username:0xc0074BE393C06BE420AD541671aa5e6f1a19a4a73bb51c59f45790f0887cfb70e0599747c6844d4556b3:::
$ john hashes.txt
$ john --format=sybasease hashes.txt
```

xsha – Mac OS X 10.4+ salted SHA-1

Supported Hash Formats

```
$ cat hashes.txt
12345678F9083C7F66F46A0A102E4CC17EC08C8AF120571B
$ john hashes.txt
$ john --format=xsha hashes.txt
```

```
$ cat hashes.txt
username:12345678F9083C7F66F46A0A102E4CC17EC08C8AF120571B
$ john hashes.txt
$ john --format=xsha hashes.txt
```

```
$ cat hashes.txt
username:12345678F9083C7F66F46A0A102E4CC17EC08C8AF120571B:::
$ john hashes.txt
$ john --format=xsha hashes.txt
```

zip – zip

Supported Hash Formats

```
$ cat hashes.txt
$zip$*0*1*8005b1b7d077708d*dee4
$ john hashes.txt
$ john --format=zip hashes.txt
```

```
$ cat hashes.txt
username:$zip$*0*1*8005b1b7d077708d*dee4
$ john hashes.txt
$ john --format=zip hashes.txt
```

```
$ cat hashes.txt
username:$zip$*0*1*8005b1b7d077708d*dee4:::::::::
$ john hashes.txt
$ john --format=zip hashes.txt
```

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