

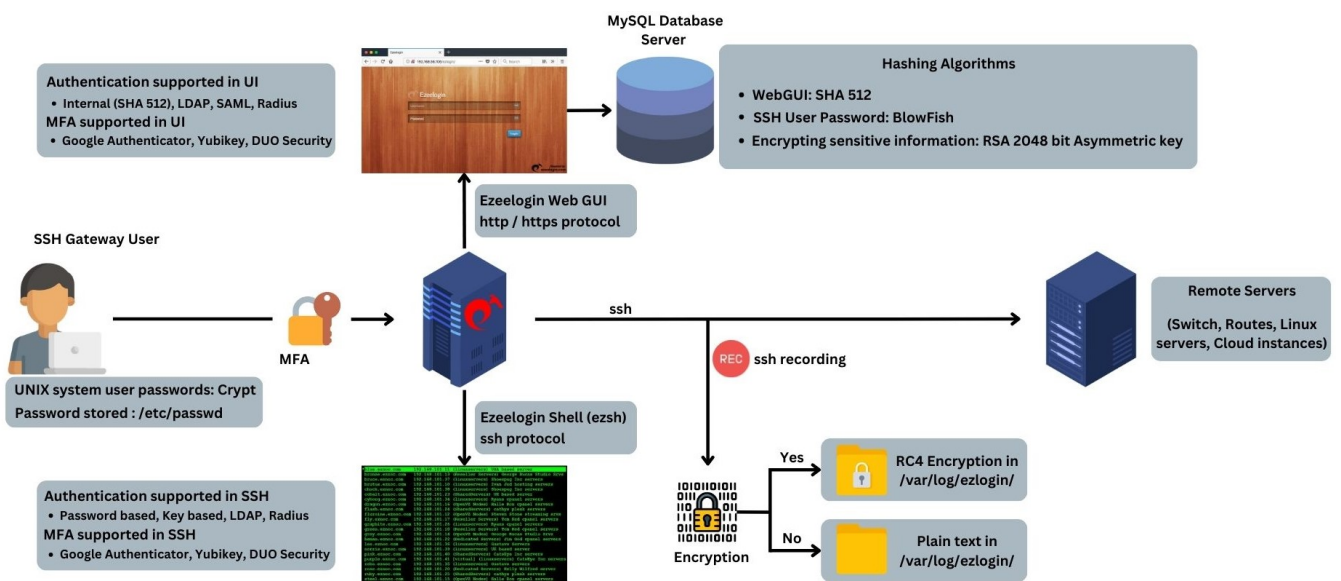
Encryption Technologies used in Ezeelogin

98 admin November 22, 2024 [Security Compliances](#), [Security Features](#) 7252

What are the Encryption algorithms used in Ezeelogin?


Overview: This article outlines the encryption technologies used for SSH gateway users.

The user **passwords** and **security codes** stored in the gateway server database use multiple rounds **SHA512**, **SHA256**, **BLOWFISH**, or **DES** depending on what's supported in the SSH gateway OS.



The UNIX System User passwords uses Crypt.

The parameter after the " : " in `/etc/shadow` refers to the hashing function in use.



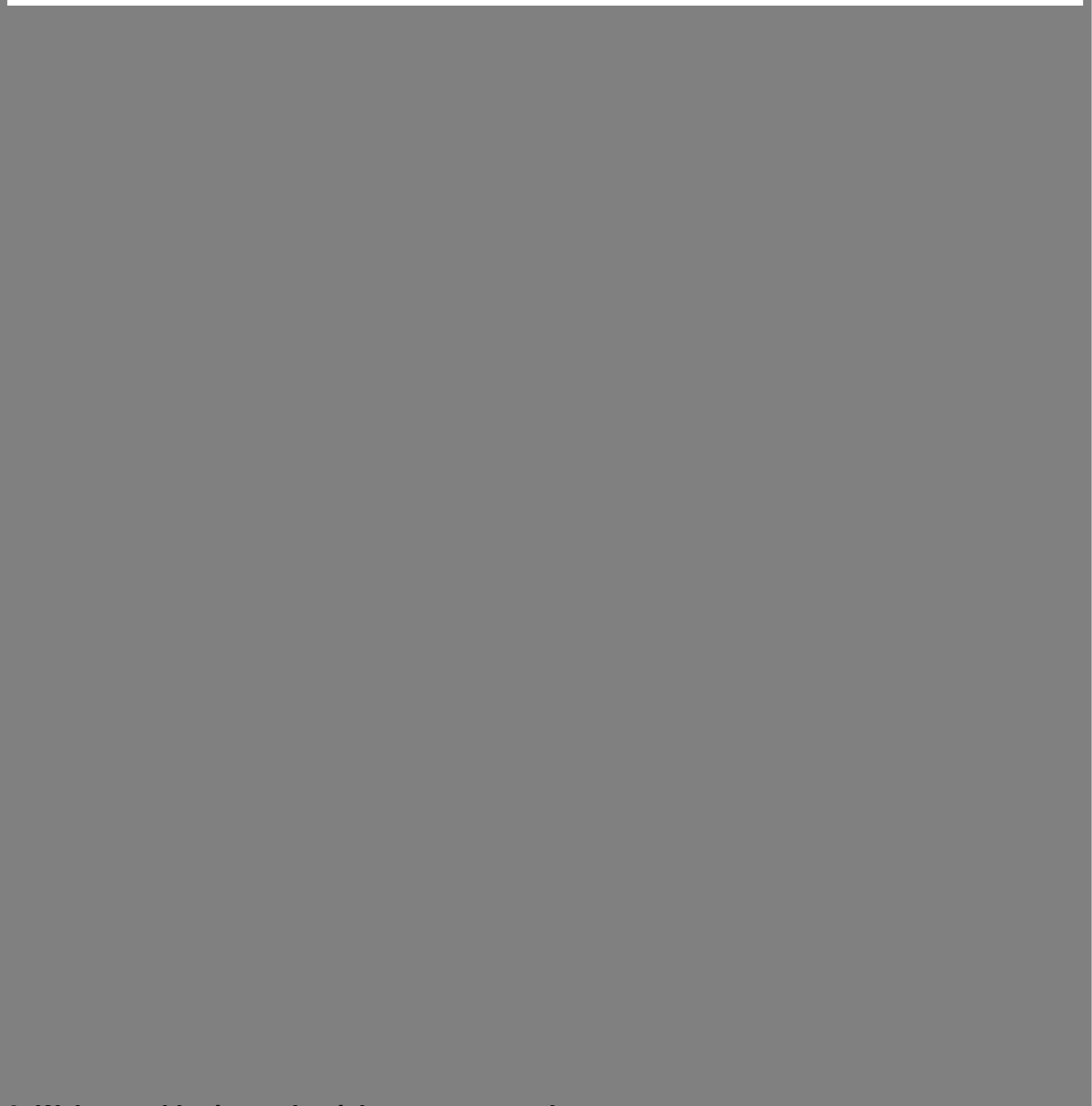
User credentials on the database are encrypted.



2. The SSH private keys, server credentials are encrypted with 4096 bit RSA keys.



devops.myserver.com



3. Web portal login credentials are encrypted.



4. The Gateway User SSH logs are encrypted using RC4 which is recognized as the most commonly utilized stream cipher in the world of cryptography. You may read more about RC4 <http://en.wikipedia.org/wiki/RC4>

Step 4(A): Run the following command to find the default Ciphers, MAC , Kex Algorithms supported in the gateway OS.

```
root@gateway:~# sshd -T | grep "(ciphers|macs|kexalgorithms)"

gssapikexalgorithms gss-gex-sha1-,gss-group1-sha1-,gss-group14-sha1-ciphers chacha20-poly1305@openssh.com,aes128-ctr,aes192-ctr,aes256-ctr,aes128-gcm@openssh.com,aes256-gcm@openssh.com,aes128-cbc,aes192-cbc,aes256-cbc,blowfish-cbc,cast128-cbc,3des-cbc

macs umac-64-etm@openssh.com,umac-128-etm@openssh.com,hmac-sha2-256-etm@openssh.com,hmac-sha2-512-etm@openssh.com,hmac-sha1-etm@openssh.com,umac-64@openssh.com,umac-128@openssh.com,hmac-sha2-256,hmac-sha2-512,hmac-sha1

kexalgorithms curve25519-sha256,curve25519-sha256@libssh.org,ecdh-sha2-nistp256,ecdh-sha2-nistp384,ecdh-sha2-nistp521,diffie-hellman-group-exchange-sha256,diffie-hellman-group16-sha512,diffie-hellman-group18-sha512,diffie-hellman-group-exchange-sha1,diffie-hellman-group14-sha256,diffie-hellman-group14-sha1,diffie-hellman-group1-sha1
```

SSH logs are stored in an encrypted format within the database, as depicted below.

```
root@gateway:~# cat /var/log/ezlogin/full/ezadmin/devops_myserver.com~Wed_May_17_12:24:48_2023

lvQRn!.V;=C6!/?/0kTNC'Xk?p?z?o?:?)s?&?+?e?j?)f?qY?o?S0?-/?/Wy[? :7A?/?/nj?M?bT?} ?n! ?S?/?t?P?i?^?s?fh?Y?'?r?P?A?G?,?uQ?xJ ?v? /f? s6>?K?;uQ?R?w?Ws(?Y?7?=?0[?7?4zV?1?δJ?UI<?o? ?/4_? (?;M?*?CJB? d?'?2cuJ ?H ,?L'?a?}??C3`! ?E?'?@?d?
```

p^I?F?J?o?TJ%??P9?d?;=?0T??g?
o?????Δ?ξ_?9?شB?D??} e?%*?%????d-l?
6?;cItP??Z?V??&??F?H(? ?A??q?? ?nC<{K-.D?a?f??Co
?AnCf2??;T?S??L4??I?0~? c?d.??w??A5" a?Qa?_3?!pB
<QU?Jg??>?;4\$?Y??Z??}F?????pOo?=??I?7?
??c9?5??d?t'???=??h8?C?m??N?IB?[EX??
J(?t~?z??aOV

Related Articles:

[Encryption type used for securing users' SSH logs in ezeelogin](#)

[Why is Ezeelogin the most secure SSH gateway?](#)

Online URL: <https://www.ezeelogin.com/kb/article/encryption-technologies-used-in-ezeelogin-98.html>