

sshd[902]: debug1:PAM: password authentication failed for an illegal user: Authentication failure

183 admin October 7, 2024 [Common Errors & Troubleshooting](#) 16860

Troubleshooting PAM authentication failures: Illegal user authentication in SSH

Overview: This article tackles SSH authentication failures due to pam_ldap configuration, specifically addressing errors such as "sshd[902]: debug1:PAM: password authentication failed for an illegal user: Authentication failure." It advises on adjusting /etc/ldap.conf for RFC 2307 mappings, restarting nscd, and verifying LDAP integration using getent passwd and finger commands.

If you are getting the error when you configured pam_ldap for the backend SSH authentication.

Step 1: Ensure to uncomment the following lines in /etc/ldap.conf

```
# RFC 2307 (AD) mappings
nss_map_objectclass posixAccount user
#nss_map_objectclass shadowAccount user
nss_map_attribute uid sAMAccountName
nss_map_attribute homeDirectory unixHomeDirectory
```

Step 2: Restart the nscd service.

```
root@gateway:~# service nscd restart
```

Step 3: The following commands should now return a result from AD/LDAP.

```
root@gateway:~# getent passwd james
```

```
james:*:10003:11000:james:/home/james:/usr/local/bin/ezsh
```

```
root@gateway:~# finger james
```

```
Login: james      Name: james  
Directory: /home/james      Shell: /usr/local/bin/ezsh  
On since Thu Feb 1 14:23 (IST) on pts/1 from 192.168.56.1  
  1 hour 47 minutes idle  
No mail.  
No Plan.
```

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