

Username/Password Authentication for SOCKS V5
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1. Introduction

The protocol specification for SOCKS Version 5 specifies a generalized framework for the use of arbitrary authentication protocols in the initial socks connection setup. This document describes one of those protocols, as it fits into the SOCKS Version 5 authentication "subnegotiation".

2. Initial negotiation

Once the SOCKS V5 server has started, and the client has selected the Username/Password Authentication protocol, the Username/Password subnegotiation begins. This begins with the client producing a Username/Password request:

```
+-----+-----+-----+-----+-----+
|VER | ULEN |  UNAME  | PLEN |  PASSWD  |
+-----+-----+-----+-----+-----+
| 1   |  1   | 1 to 255 |  1   | 1 to 255 |
+-----+-----+-----+-----+-----+
```

The VER field contains the current version of the subnegotiation, which is X'01'. The ULEN field contains the length of the UNAME field that follows. The UNAME field contains the username as known to the source operating system. The PLEN field contains the length of the PASSWD field that follows. The PASSWD field contains the password association with the given UNAME.

The server verifies the supplied UNAME and PASSWD, and sends the following response:

```
+-----+
|VER | STATUS |
+-----+
| 1 | 1 |
+-----+
```

A STATUS field of X'00' indicates success. If the server returns a 'failure' (STATUS value other than X'00') status, it MUST close the connection.

3. Security Considerations

This document describes a subnegotiation that provides authentication services to the SOCKS protocol. Since the request carries the password in cleartext, this subnegotiation is not recommended for environments where "sniffing" is possible and practical.

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