

strongSwan - Bug #2457

strongSwan Sends Key Info With Update SA Though Disallowed By FreeBSD

02.11.2017 15:48 - Chinh Nguyen

Status:	Closed	Start date:	
Priority:	Normal	Due date:	
Assignee:	Tobias Brunner	Estimated time:	0.00 hour
Category:	libcharon	Resolution:	Fixed
Target version:	5.6.1		
Affected version:	5.6.0		

Description

With the update SA used to manage MOBIKE address/port change, strongSwan queries for the current SA info and then sends an update SA with new address/port changes. However, if there are key information in the response to the SA query, it will also include that in the SA update.

src/libcharon/plugins/kernel_pfkey/kernel_pfkey_ipsec.c:

```
if (response.key_encr)
{
    PFKEY_EXT_COPY(msg, response.key_encr);
}

if (response.key_auth)
{
    PFKEY_EXT_COPY(msg, response.key_auth);
}
```

But the FreeBSD 11.1 kernel explicitly disallows key updates to established SA and so rejects the pfkey message:

sys/netipsec/key.c:

```
/*
 * For DYING and MATURE SA we can change only state
 * and lifetimes. Report EINVAL if something else attempted
 * to change.
 */
if (!SADB_CHECKHDR(mhp, SADB_EXT_KEY_ENCRYPT) ||
    !SADB_CHECKHDR(mhp, SADB_EXT_KEY_AUTH)) {
    key_freesav(&sav);
    return (key_senderror(so, m, EINVAL));
}
```

Associated revisions

Revision 21a500a0 - 08.11.2017 16:34 - Tobias Brunner

kernel-pfkey: Don't include keys in SADB_UPDATE message to update IPs on FreeBSD

The FreeBSD kernel explicitly rejects messages containing keys for mature SAs.

Fixes #2457.

History

#1 - 03.11.2017 09:39 - Tobias Brunner

- Tracker changed from Issue to Bug
- Status changed from New to Feedback
- Assignee set to Tobias Brunner
- Target version set to 5.6.1

I see. I pushed a fix for this to the *2457-freebsd-sa-update* branch.

#2 - 08.11.2017 16:33 - Tobias Brunner

- *Status changed from Feedback to Closed*

- *Resolution set to Fixed*