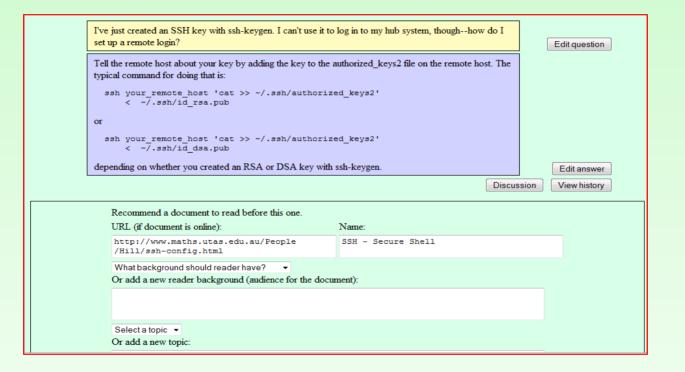
Growing participation, growing participants



Supporting the users of software projects through better communications

Barriers to recruiting project members

New software projects hit the Internet every day

Bringing new users up to speed is critical for success

But most projects unknowingly erect barriers that limit membership to a small group of experts

Information is hard to get from mailing lists, newsgroups, and documentation, because they are written by experts for other people like themselves



Project members can educate each other...

But the process can go faster with the right tools and formats Projects can increase participation by:

- 1. Making contributions more visible and easier to find
- 2. Providing pathways through related documents
- 3. Investing in improving the most important contributions
- 4. Measuring quality

Steps toward a better experience for visitors and users

- 1. Move technical questions from newsgroups to FAQs
- 2. Solicit references to other documents
- 3. Invest extra effort in popular postings
- 4. Check how well you're doing

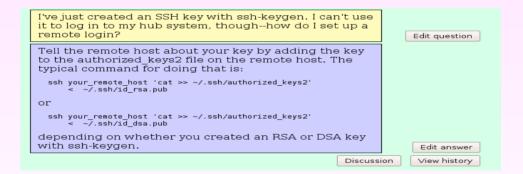
Step 1: Move technical questions

to FAQs

Email and postings lack context; they are hard to find and hard to read

They are useful for historically valuable postings such as announcements and design discussions

But technical questions should be on a FAQ



Professional support can be valuable for organizing the FAQ

Step 2: Solicit references to other

documents

The Internet lends itself naturally to short, loosely connected utterances

Some readers need background information to understand a posting

Others want pointers to more advanced information after reading the posting

Many users benefit from pointers to related material in other languages

Step 2: Solicit references to other

documents (continued)

Each FAQ question can offer a form where readers can suggest background and follow-up documents

WILLI SSII-Keygell. Edit al Discussion View h	
Recommend a document to read before this one. URL (if document is online): Name:	
http://www.maths.utas.edu.au/People Angle SSH - Secure Shell	
What background should reader have? Audience for the document): New to GNU/Linux and Unix Has basic GNU/Linux command-line skills	
GNU/Linux system administrator Solaris system administrator Select a topic V Or add a new topic:	
SSH	

Automated tools can generate paths for readers of different types; thus creating large virtual books out of small pieces written by different authors

Step 3: Invest extra effort in popular postings

Determine popularity by culling statistics from logs about visits and search terms

Find out through the editing histories who contributed the most to a FAQ entry

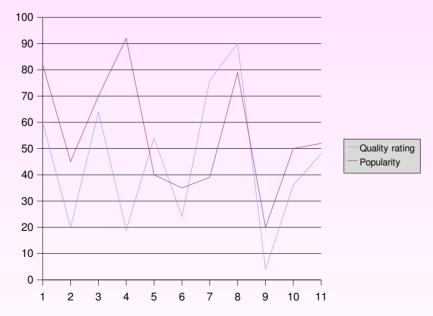
Ask successful contributors to write longer, more selfcontained documents

Solicit translations of popular documents

Step 3: Invest extra effort in

In the ratings shown below, document 4 deserves some extra work because it is viewed often but is rated as low quality

In contrast, document 9 is low-quality but is not viewed often, so an investment might not be worthwhile.



Professional editing and translation can add value

Andy Oram

Step 4: Check how well you're

doing

Ratings can be useful, but to really know whether a document is successful, try quizzing the reader

depending on whether you created an RSA or DSA key with ssh-keygen. Edit answer Reply Discussion View history		
Take this short quiz to find out whether you learned the key concepts in this document.		
What is the correct use of the private and public SSH keys?		
Share your public key with every system or user you want to communicate with, while keeping the private key in a secure place only you have access to.		
Publish the public key in web pages and email messages, while storing the private key on remote hosts that you want to log into using SSH.		
Store the public key on your local system for use in logging into remote systems, while keeping the private key in a secure place only you have access to.		

Professional support can be valuable for choosing, writing, and testing quiz questions

A comparison

A brief example follows to illustrate the value of Step 1: using a FAQ

We'll look at a typical attempt to educate a new user

First we'll walk through a typical sequence of five postings to a newsgroup, and then go through the same sequence in a FAQ

jacknewb@example.org posts a question to a traditional newsgroup

I've just created an <u>SSH</u> key with <u>ssh-keygen</u> . I can't use it to log in to my hub system, thoughhow do I set up a remote login?	
	Reply
View thread	

quickrespondent@example.edu posts a brief answer

I've just created an SSH key with ssh-keygen. I can't use it to log in to my hub system, though--how do I set up a remote login?

Posted by: jacknewb@example.org

Add an answer below.

For the remote host to recognize your key, you have to put it in the authorized_keys2 file.

View thr

slowrespondent@example.edu adds more detail

system, though--how do I set up a remote login?

Posted by: jacknewb@example.org

For the remote host to recognize your key, you have to put it in the authorized_keys2 file.

Posted by: quickrespondent@example.edu

Add an answer below.

To be more specific, the <u>authorized_</u>keys2 file is in a directory named .<u>ssh</u> (notice the initial dot) under your home directory. Your key is in ~/.<u>ssh/id_rsa</u>.pub or ~/.<u>ssh</u>/id_dsa.pub, depending on whether you created an <u>RSA</u> or <u>DSA</u> key with <u>ssh-keygen</u>.

View

jacknewb@example.org can't get the advice to work, and therefore posts a follow-up question

To be more specific, the authorized_keys2 file is in a directory named .ssh (notice the initial dot) under your home directory. Your key is in ~/.ssh/id_rsa.pub or ~/.ssh/id_dsa.pub, depending on whether you created an RSA or DSA key with ssh-keygen.

Posted by: slowrespondent@example.edu

Add an answer below.

I tried: <u>ssh-keygen</u> -t <u>rsa etc</u>. cat ~/.<u>ssh</u>/id<u>_rsa</u>.pub >> ~/.<u>ssh/authorized_</u>keys2 <u>ssh</u> my-remote-hub

but I still can't log in to the remote hub.

2

View t

slowrespondent@example.edu posts a fuller answer

i uicu.

ssh-keygen -t rsa etc. cat ~/.ssh/id_rsa.pub >> ~/.ssh/authorized_keys2 ssh my-remote-hub

but I still can't log in to the remote hub.

Posted by: jacknewb@example.org

Posted by: jacknewb@example.org

Tell the remote host about your key by adding the key to the <u>authorized_</u>keys2 file on the remote host. The typical command for doing that is:

ssh your_remote_host 'cat >> ~/.ssh/authorized_keys2' < ~/.ssh/id_rsa.pub</pre>

or

ssh your_remote_host 'cat >> ~/.ssh/authorized_keys2' < ~/.ssh/id_dsa.pub</pre>

~

Problems of using a mailing list or newsgroup

Anyone trying to find this information later has to read and synthesize five messages

Furthermore, the answers are buried in an archive and might not even turn up in a search

Solution

Provide a FAQ that is editable by everyone

Community self-help will be just as easy, and much more powerful because answers are easier to find and understand

The following example uses a FAQ to record the same exchange carried out before

jacknewb@example.org posts a question

	I've just created an SSH key with ssh-keygen. I can't use it to log in to my hub system, thoughhow do I set up a remote login?		
			Edit question
Repl	Discus	sion	View history

quickrespondent@example.edu posts a brief answer

I've just created an SSH key with ssh-keygen. I can't use it to log in to my hub system, thoughhow do I set up a remote login?	Edit question
Tell the remote host about the key by adding the key to the authorized_keys2 file.	Edit answer
Discussi	on View history

slowrespondent@example.edu edits the answer to add more detail

I've just created an SSH key with ssh-keygen. I can't use it to log in to my hub system, thoughhow do I set up a remote login?	Edit question
Tell the remote host about the key by adding the key to the authorized_keys2 file, in a directory named .ssh (notice the initial dot) under your home directory. Your key is in ~/.ssh/id_rsa.pub or ~/.ssh/id_dsa.pub, depending on whether you created an RSA or DSA key	
with ssh-keygen.	Edit answer
Discuss	on View history

jacknewb@example.org can't get the advice to work, and therefore adds a follow-up question

I've just created an SSH key with ssh-keygen. I can't use it to log in to my hub system, thoughhow do I set up a remote login?	Edit question
Tell the remote host about the key by adding the key to the authorized_keys2 file, in a directory named .ssh (notice the initial dot) under your home directory. Your key is in ~/.ssh/id_rsa.pub or ~/.ssh/id_dsa.pub, depending on whether you created an RSA or DSA key with ssh-keygen.	
There's still a problem.	
I tried	
ssh-keygen -t rsa etc. cat ~/.ssh/id_rsa.pub >> ~/.ssh/authorized_keys2 ssh my-remote-hub	
but I still can't log in to the remote hub.	Edit answer

slowrespondent@example.edu rewrites the answer

```
I've just created an SSH key with ssh-keygen. I can't use
it to log in to my hub system, though--how do I set up a
remote login?
                                                                  Edit question
Tell the remote host about your key by adding the key
to the authorized keys2 file on the remote host. The
typical command for doing that is:
 ssh your remote host 'cat >> ~/.ssh/authorized keys2'
     < ~/.ssh/id rsa.pub
or
 ssh your remote host 'cat >> ~/.ssh/authorized keys2'
     < ~/.ssh/id dsa.pub
depending on whether you created an RSA or DSA key
with ssh-keygen.
                                                                    Edit answer
                                                      Discussion
                                                                   View history
```

Summary

- Preserve valuable user exchanges through a FAQ
- Expand offerings through references
- Improve material on the most valuable topics
- Check the quality of the material

Status

The tools shown in this presentation are mock-ups

I am seeking help to create general interfaces that allow access to the features in this presentation from multiple tools (browsers, IDEs, editors, etc.)

For further information

Articles:

http://praxagora.com/community_documentation/

Contact:

andyo@oreilly.com

- End -