Moikrug .NET Knowledge Base Freelansim habr Posts Hubs Companies Users Sandbox Log in kashtan404 May 28, 2019 at 10:06 AM Connect to Windows via SSH like in Linux Сапсан среди ивентов: TechTrain System administration, PowerShell, Server Administration, DevOps прибывает на IT-платформу **Tutorial** Запрыгнуть в поезд The most depressing thing for me is to connect to Windows hosts. I'm not an opponent or a fan of Microsoft and their's products. Every product has its own purpose. But it is really painful for me to connect to Windows servers, because of 2 points: it is hard to configure (Hi WinRM with HTTPS), and it is really unstable (Hello RDP to VMs across the ocean). Ads Fortunately, I found the project Win32-OpenSSH. I realized that I want to share my experience with it. I believe POPULAR RIGHT NOW it will help somebody and save a lot of nerves. Scrum vs Kanban: Keep Calm and **Choose What Suits You Better** 0 **©** 772 Web Worker easier than you thought 0 **365** What is Swoft? How I discovered an easter egg in Android's security and didn't land a job at Google **②** 21.5k **■** 0 **PVS-Studio Visits Apache Hive** Installation ways: 0 **120** How to Catch a Cat with TLA+ 1. Manually 0 **498** 2. Via Chocolatey package 3. Via Ansible, let us say the role jborean93.win_openssh I will explain the manual way because other ones are obvious. I must note, this project is on beta stage and it isn't recommended to use it in production. Well, let's download latest release. Currently it is 7.9.0.0p1-beta. It also has 32 and 64 bit versions. Then unpack it to C:\Program Files\OpenSSH. Important: It is necessary to grant write access to SYSTEM and Administers group only. Futher, install services via shell script install-sshd.ps1 which is located in the OpenSSH directory powershell.exe -ExecutionPolicy Bypass -File install-sshd.ps1 Let's allow incoming connections on 22 port: New-NetFirewallRule -Name sshd -DisplayName 'OpenSSH Server (sshd)' -Enabled True -Dire ction Inbound -Protocol TCP -Action Allow -LocalPort 22 Note: applet New-NetFirewallRule is for Windows Server 2012 and above only. For older or desktop OS, you can use the following command: netsh advfirewall firewall add rule name=sshd dir=in action=allow protocol=TCP localpor t=22 Start the service: net start sshd This will automatically generate host keys under *%programdata%\ssh* if they don't already exist. You can set up the service auto-start by command: Set-Service sshd -StartupType Automatic Also, you can change default shell (it is *cmd* by default after install): New-ItemProperty -Path "HKLM:\SOFTWARE\OpenSSH" -Name DefaultShell -Value "C:\Windows\S ystem32\WindowsPowerShell\v1.0\powershell.exe" -PropertyType String -Force Note: you must define absolut path.

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Also, directory C:\Program Files\OpenSSH contains 2 scripts (FixHostFilePermissions.ps1, FixUserFilePermissions.ps1), which should but not obliged fix permissions, including authorized_keys permissions, but they don't. Don't forget to restart *sshd* service to apply changes. ru-mbp-666:infrastructure\$ ssh Administrator@192.168.1.10 -i ~/.ssh/id_rsa Windows PowerShell Copyright (C) 2016 Microsoft Corporation. All rights reserved.

Then we create .ssh directory inside the user directory (C:\Users\<user_directory>) and authorized_keys file

Important: the only user in which directory it is, must have write permissions for this file.

By the way, if you can't fix it, you can disable permissions check via config:

: ConsoleHost Name Version : 5.1.14393.2791 : 653210bd-6f58-445e-80a0-66f66666f6f6 InstanceId : System.Management.Automation.Internal.Host.InternalHostUserInterface UΙ CurrentCulture : en-US CurrentUICulture : en-US : Microsoft.PowerShell.ConsoleHost+ConsoleColorProxy PrivateData DebuggerEnabled : True IsRunspacePushed : False : System.Management.Automation.Runspaces.LocalRunspace Runspace PS C:\Users\Administrator> Personal pros/cons. Pros:

So, here we go via ssh, but here via RDP, and generally speaking, it is the best-practice with bastions, firstly ssh-tunnel, then RDP via the tunnel. Oh kill me baby one more time.

What's next?

PasswordAuthentication no

PubkeyAuthentication yes

StrictModes no

inside it. We can paste public keys into this file.

PS C:\Users\Administrator> Get-Host

Standart way to connect to any server (Windows/Linux)

When you have a few Windows host, it's inconvenient:

E.g.:

We can configure *sshd_config*, which is located in *C:\ProgramData\ssh*.

 Easy to configure I think it is obvious. Connection speed to remote host Without GUI we save up host resources, and size of transmitted data Cons:

• It can't replace RDP in some cases. Not the all things you can do via PowerShell. I mean the cases when GUI is required.

Project on Github Ansible docs

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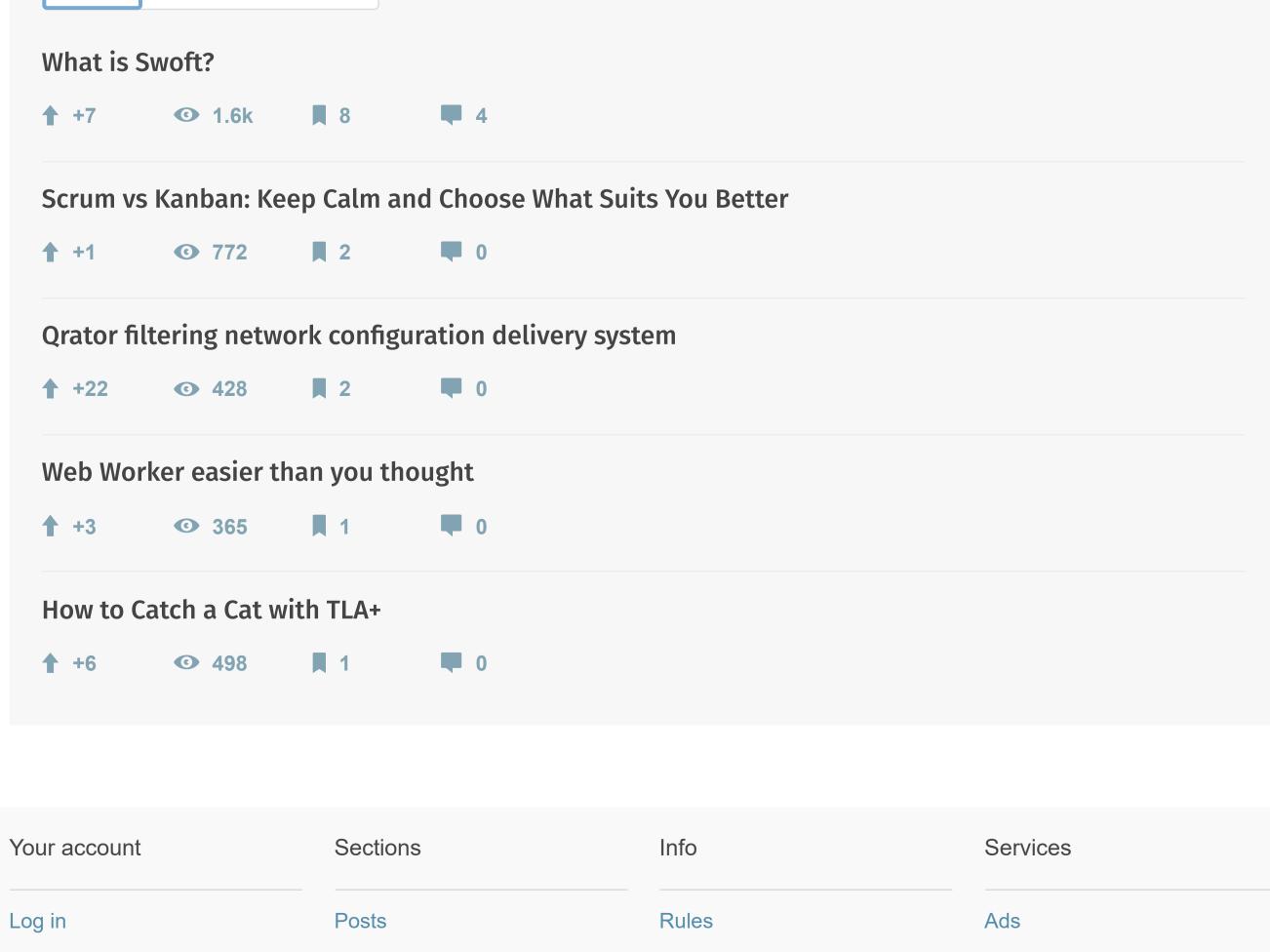
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