



# Vývoj v Pythonu pod Windows

Jan Smitka

jan.smitka@lynt.cz

@jansmitka

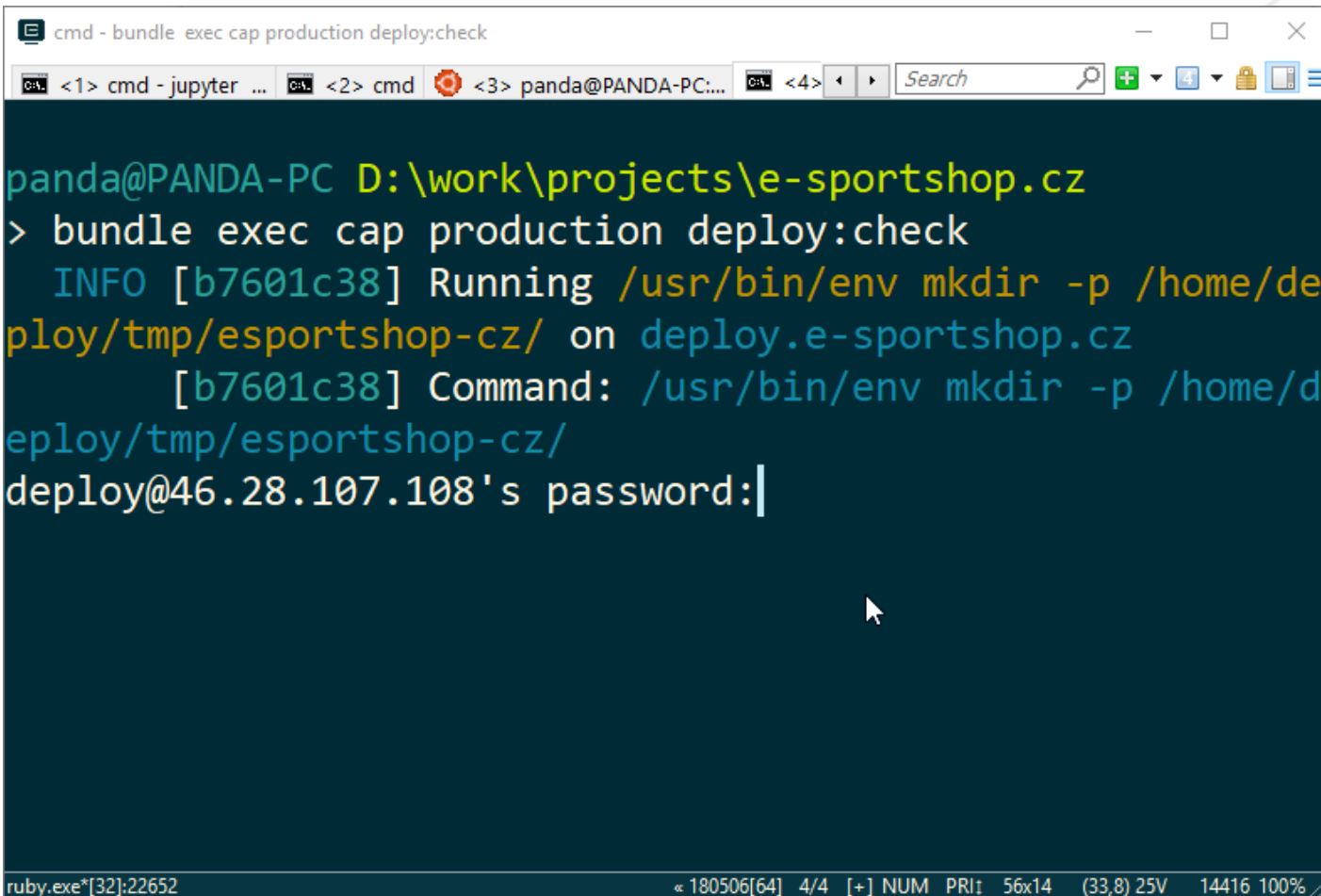
Lynt services s.r.o.



# KONZOLE

# ConEmu

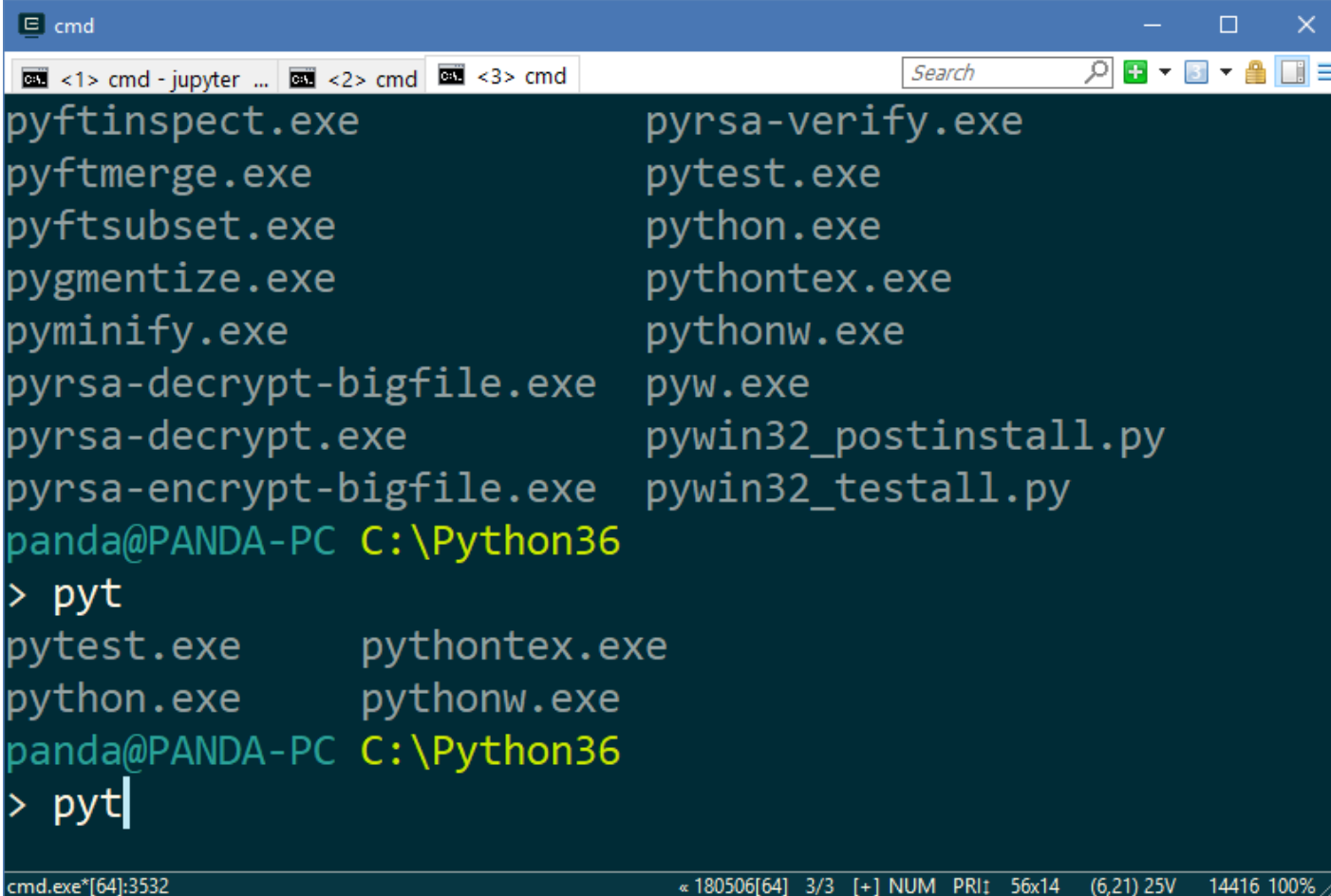
<https://conemu.github.io/>



```
cmd - bundle exec cap production deploy:check  
panda@PANDA-PC D:\work\projects\e-sportshop.cz  
> bundle exec cap production deploy:check  
INFO [b7601c38] Running /usr/bin/env mkdir -p /home/deploy/tmp/esportshop-cz/ on deploy.e-sportshop.cz  
[b7601c38] Command: /usr/bin/env mkdir -p /home/deploy/tmp/esportshop-cz/  
deploy@46.28.107.108's password:|  
ruby.exe*[32]:22652  « 180506[64] 4/4 [+] NUM PRI: 56x14 (33,8) 25V 14416 100%
```

# Clink – TAB

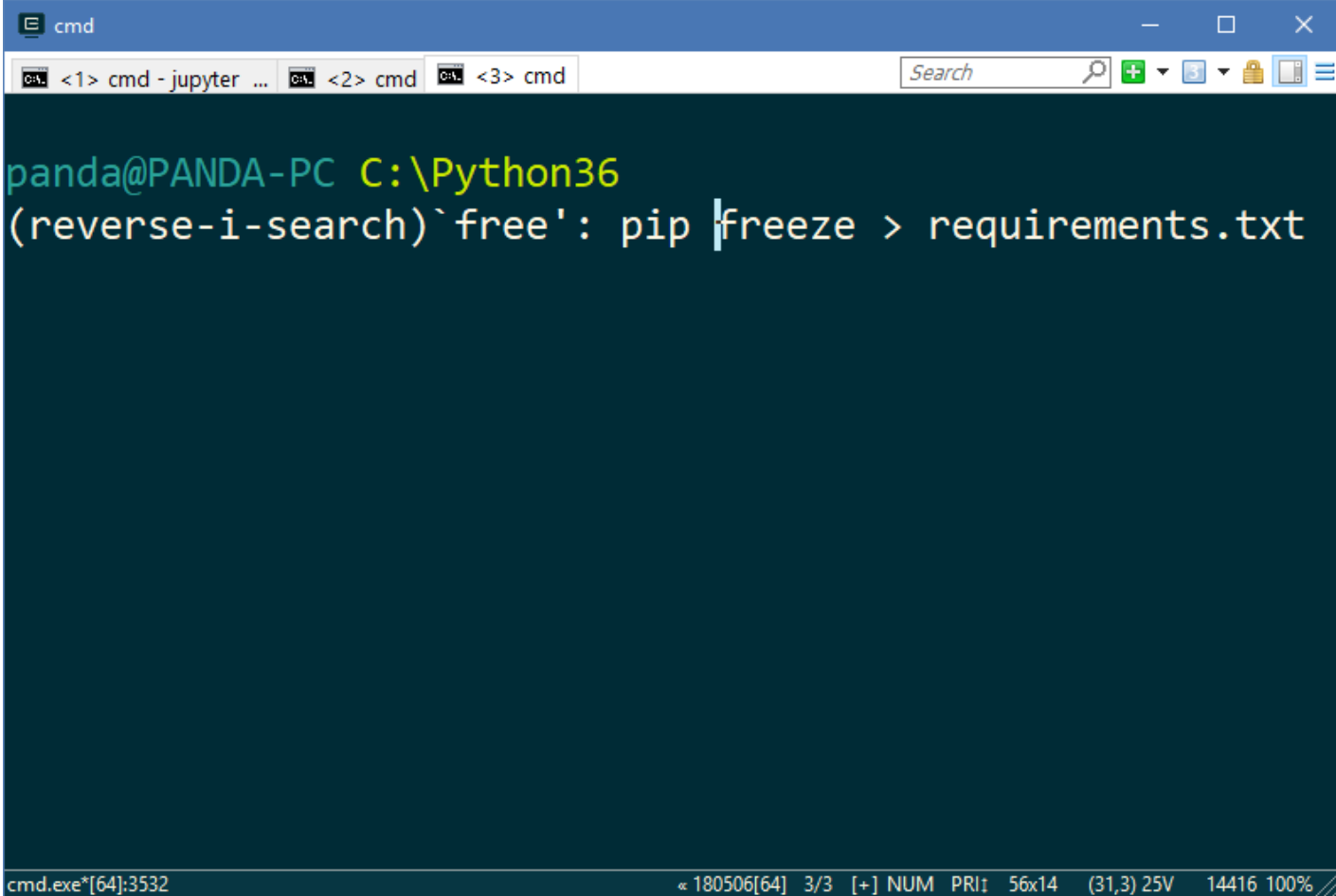
<https://mridgers.github.io/clink/>



```
cmd
cmd - jupyter ...
cmd <2> cmd
cmd <3> cmd
Search
pyftinspect.exe      pyrsa-verify.exe
pyftmerge.exe       pytest.exe
pyftsubset.exe      python.exe
pygmentize.exe      pythontex.exe
pyminify.exe        pythonw.exe
pyrsa-decrypt-bigfile.exe  pyw.exe
pyrsa-decrypt.exe   pywin32_postinstall.py
pyrsa-encrypt-bigfile.exe  pywin32_testall.py
panda@PANDA-PC C:\Python36
> pyt
pytest.exe          pythontex.exe
python.exe          pythonw.exe
panda@PANDA-PC C:\Python36
> pyt|
```

cmd.exe\*[64]:3532      « 180506[64] 3/3 [+] NUM PRI: 56x14 (6,21) 25V 14416 100%

# Clink – Reverse Search



```
cmd
C:\Python36
(reverse-i-search)`free': pip freeze > requirements.txt
```

cmd.exe\*[64]:3532      « 180506[64] 3/3 [+] NUM PRI: 56x14 (31,3) 25V 14416 100%

# Cmder

<http://cmder.net/>

```
λ cmder
```

*Portable console emulator for Windows*

```
Microsoft Windows [Version 6.2.9200]  
(c) 2012 Microsoft Corporation. All rights reserved.
```

```
C:\Users\Samuel
```

```
λ cd Desktop\web_projects\cmder\  
.git\ bin\ config\ test\ vendor\  
C:\Users\Samuel
```

```
C:\Users\Samuel
```

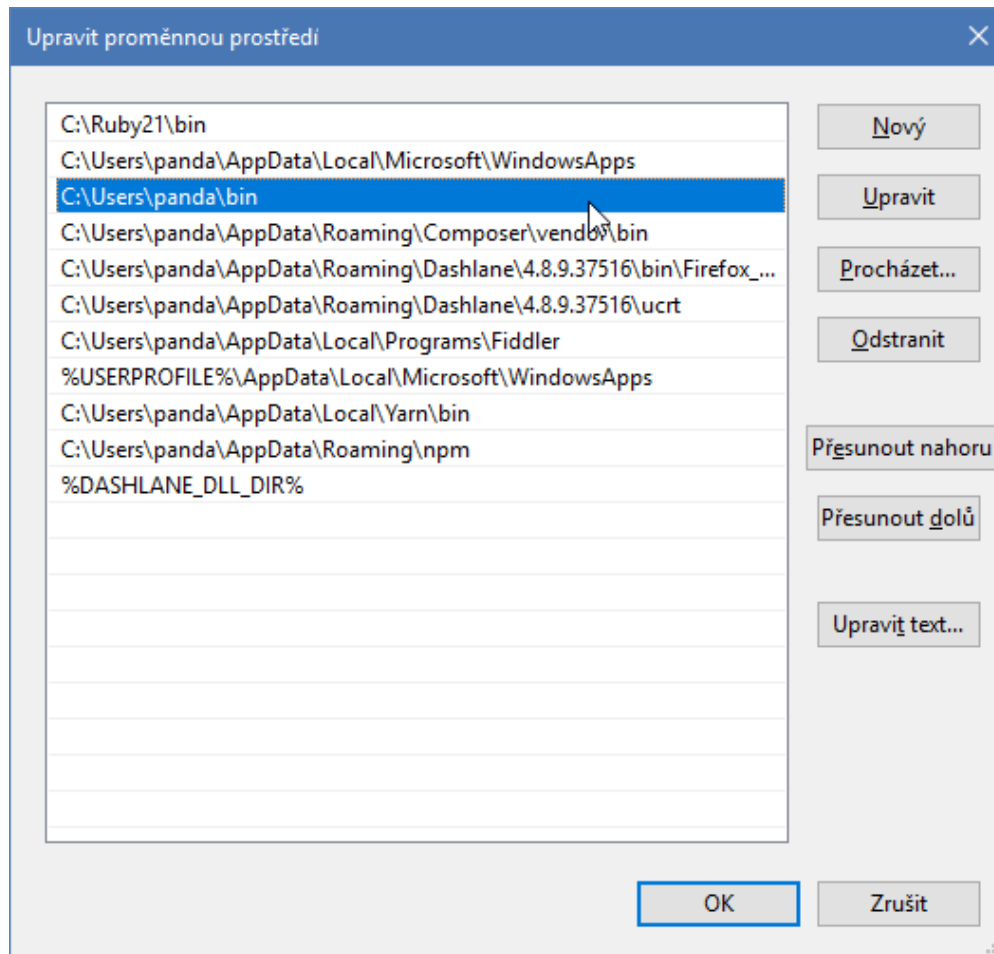
```
λ cd Desktop\web_projects\cmder\  
C:\Users\Samuel\Desktop\web_projects\cmder
```

```
C:\Users\Samuel\Desktop\web_projects\cmder
```

```
λ gl
```

```
* c2c0e1c (HEAD, origin/master, master) wrong slash  
* ec5f8f9 Git initiation  
* aefb0f2 Ignoring the .history file  
* 2cceaee Icon  
* 2c0a6d0 Changes for startup  
* e38aded meh  
* 5bb4808 (tag: v1.0.0-beta) Alias fix
```

# Vlastní binárky



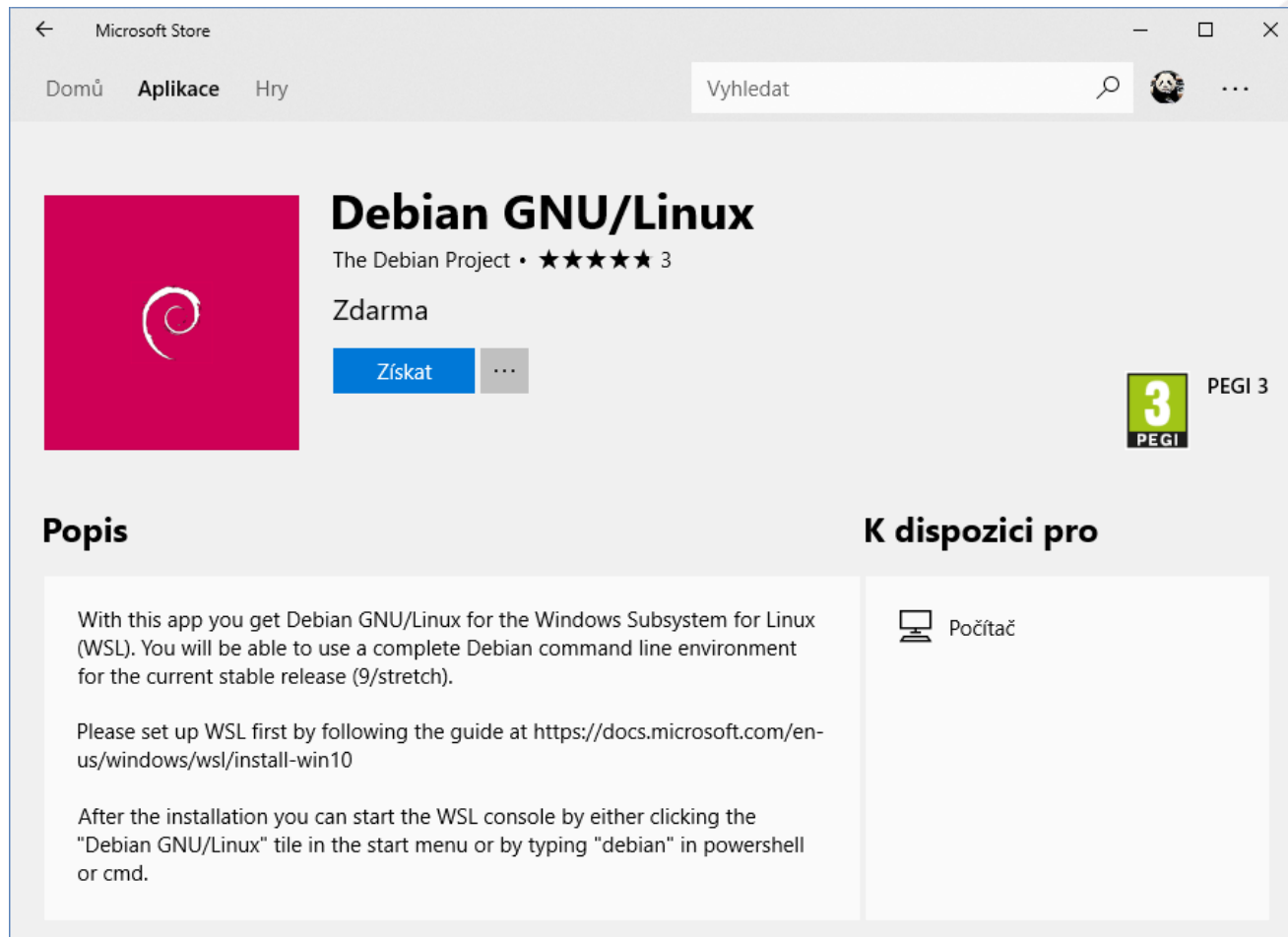
- make
- grep
- curl + wget
- dos2unix
- unix2dos
- chromedriver
- geckodriver
- elevate
- ...



# LINUX



# Windows Subsystem for Linux

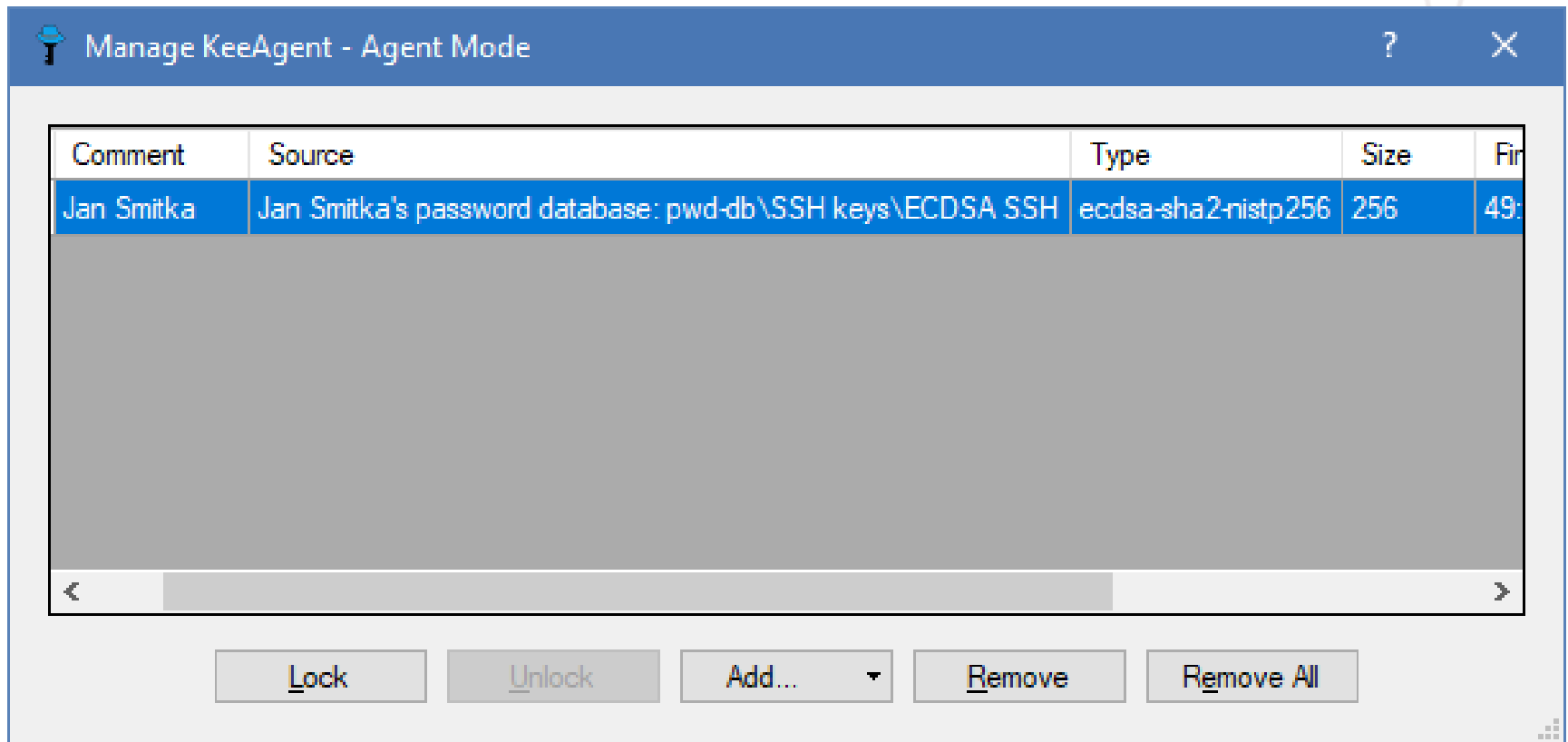




# SSH KLÍČE

# KeePass + KeeAgent

<https://lechnology.com/software/keeagent/>

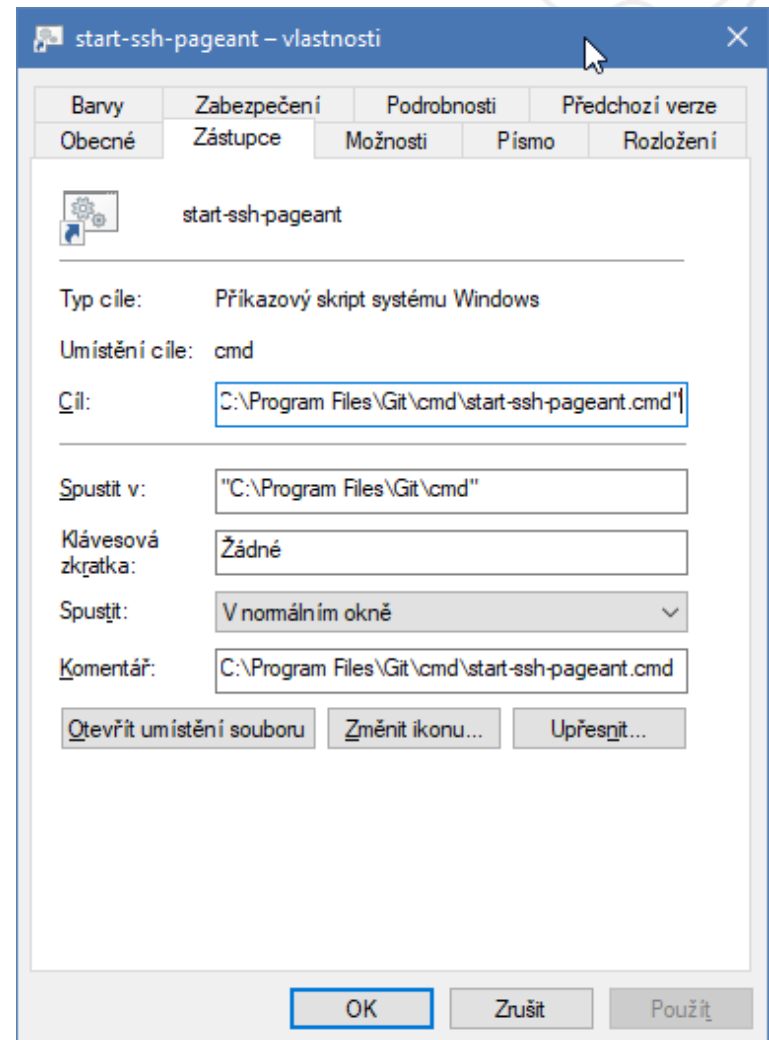


# Pageant/KeeAgent z konzole

Nastavit prom. prostředí

**SSL\_AUTH\_SOCKET**

na cestu k souboru,  
který má zastupovat socket





# VIRTUALENVS

# virtualenvwrapper-win

<https://pypi.org/project/virtualenvwrapper-win/>

## virtualenvwrapper-win 1.2.5



Latest version

```
pip install virtualenvwrapper-win
```



*Last released: Dec 7, 2017*

*Port of Doug Hellmann's virtualenvwrapper to Windows batch scripts*



# KOMPILACE ROZŠÍŘENÍ

# Visual Studio Build Tools

```
Command Prompt
c:\program files\python36\lib\distutils\dist.py:261: UserWarning: Unknown distribution option: 'define_macros'
  warnings.warn(msg)
running install
running build
running config_cc
unifing config_cc, config, build_clib, build_ext, build commands --compiler options
running config_fc
unifing config_fc, config, build_clib, build_ext, build commands --fcompiler options
running build_src
build_src
building py_modules sources
creating build
creating build\src
creating build\src.win-amd64-3.6\numpy\distutils
building library "npymath" sources
No module named 'numpy.distutils._msvccompiler' in numpy.distutils; trying from distutils
error: Microsoft Visual C++ 14.0 is required. Get it with "Microsoft Visual C++ Build Tools": http://landinghub.visualstudio.com/visual-cpp-build-tools

-----
Command ""c:\program files\python36\python.exe" -u -c "import setuptools, tokenize;__file__='C:\\Users\\IEUser\\AppData\\Local\\Temp\\pip-build-no6x0qq3\\numpy\\setup.py';f=getattr(tokenize, 'open', open)(__file__);code=f.read().replace('\r\n', '\n');f.close();exec(compile(code, __file__, 'exec'))" install --record C:\Users\IEUser\AppData\Local\Temp\pip-xqhvijq6-record\install-record.txt --single-version-externally-managed --compile" failed with error code 1 in C:\Users\IEUser\AppData\Local\Temp\pip-build-no6x0qq3\numpy\
You are using pip version 9.0.3, however version 10.0.1 is available.
You should consider upgrading via the 'python -m pip install --upgrade pip' command.
C:\Users\IEUser>
```



# vcpkg

<https://github.com/Microsoft/vcpkg>

README.md

Vcpkg 

## Overview

Vcpkg helps you manage C and C++ libraries on Windows, Linux and MacOS. This tool and ecosystem are currently in a preview state; your involvement is vital to its success!

For short description of available commands, run `vcpkg help`.

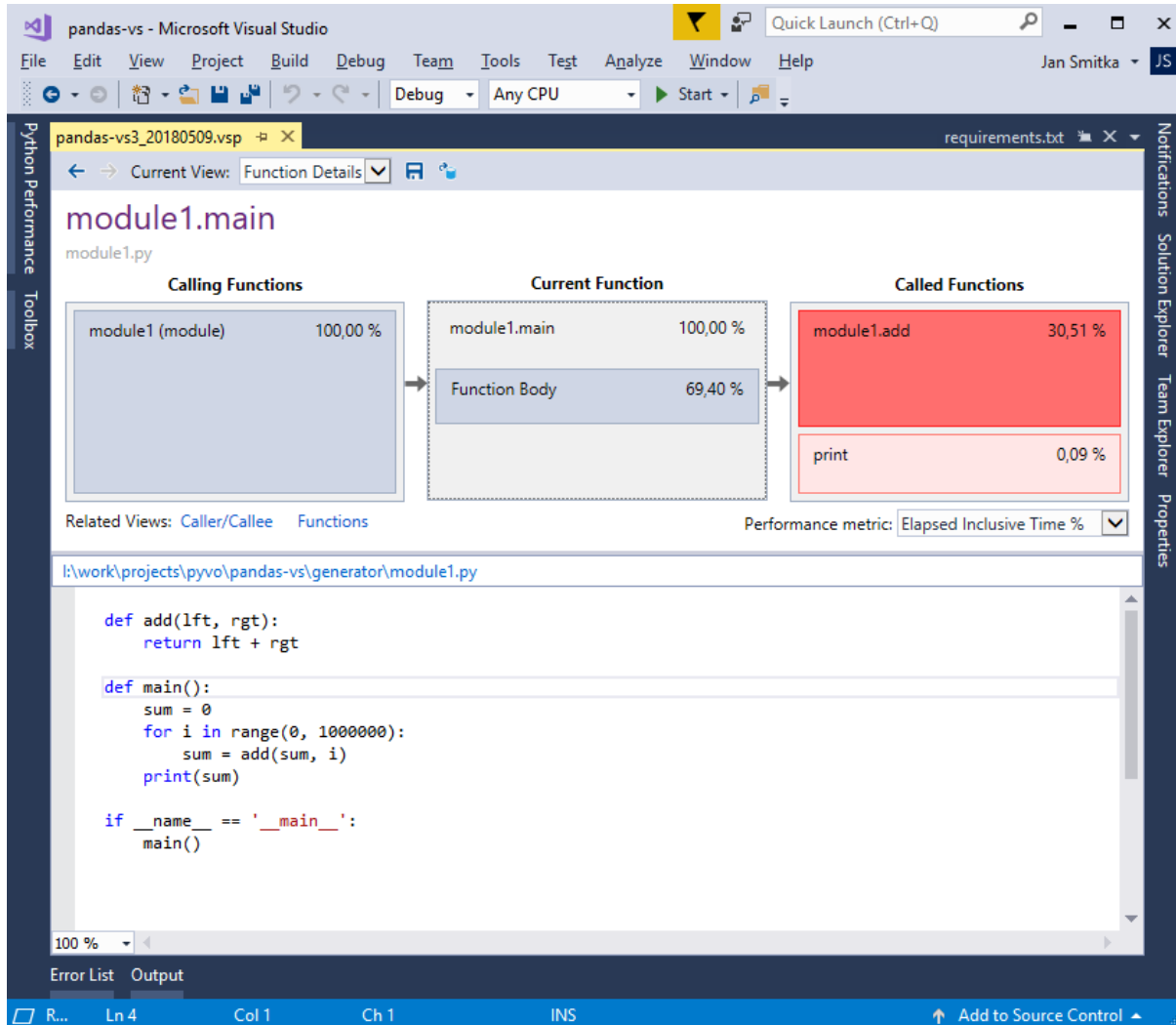


# IDE – VÝVOJOVÉ PROSTŘEDÍ

# PyCharm



# Visual Studio 2017 Community



The screenshot displays the Visual Studio Performance Profiler for a Python application. The main window shows a call stack diagram with three columns: Calling Functions, Current Function, and Called Functions.

Calling Functions	Current Function	Called Functions
module1 (module) 100,00 %	module1.main 100,00 % Function Body 69,40 %	module1.add 30,51 % print 0,09 %

Below the call stack, the source code for `module1.py` is visible:

```

def add(lft, rgt):
    return lft + rgt

def main():
    sum = 0
    for i in range(0, 1000000):
        sum = add(sum, i)
    print(sum)

if __name__ == '__main__':
    main()
    
```

# Thank you for listening!

## We are looking for Python Devs!

<https://lynt.cz/kariera>

