

README **technicolor version** Improved hashing for VISTA sign-on, XUSHSH:

Rapid recipe for the already-believer.

For long-winded (and unfinished) cookbook see [xushsh_pbkdf2.pdf](#).

We will replace XUSHSH with a new version and create a global node, ^VA(200,"VWHSH"), that controls its behavior. After a demonstration of pbkdf2, we will set it to return the old hash unchanged.

GT.M host, this example was run on dEWDrop virtual machine:

Python is already installed and in the PATH

You can copy and paste the **green stuff**.

```
vista@dEWDrop:~$ mkdir git
:~$ cd git
~/git$ git clone git://github.com/grapaZ/xushsh.git
~/git$ cd xushsh
~/git/xushsh$ cp xushsh.py ~/bin
~/git/xushsh$ python ~/bin/xushsh.py <<<-- testing w defaults in xushsh.py
f4ca507c07d0bd31bc779a08756826a6fd9dd97d43ac25e4
~/git/xushsh$
~/git/xushsh$ cp *.m ~/p/
```

Now go into MUMPS:

```
~/git/xushsh$ mumps -dir
```

```
MU-beta3>zlink "VWHSH8.m","VWHSH0.m","VWHSHLEG.m"
>W $$EN^XUSHSH("test") <<<-----LEGACY hash
115116101116
>W $$EN^VWHSHLEG("test")
115116101116
```

^VWHSH8 will be able to replace ^XUSHSH once global node ^VA(200,"VWHSH") is properly configured by the following call to ^VWHSH0:

```
>DO BUILD^VWHSH0() <<<-----configuration will default to "LEGACY"
<<<-----and that is what ^VWHSH8 will return.
115116101116

>DO SET^VWHSH0("PBKDF2") <<<-----LEGACY, NONE, and PBKDF2 are supplied by BUILD()
>W $$EN^VWHSH8("test")
f054d357dfc8464f110cd32b36423acead8e1bcbf1bd8197
```

Lots of other stuff could be done with ^VA(200,"VWHSH"), but KeepItSimple for now. I recommend looking at ^("VWHSH") with VPE. Some VISTA configurations may require Put LEGACY (or NONE if you are using, for example, openvista.)

```
>DO SET^VWHSH0("LEGACY")
```

We are now ready to replace the old XUSHSH.

```
>zsy "cp ~/p/VWHSH8.m ~/p/XUSHSH.m" <<<-----overwrite ^XUSHSH with ^VWHSH8
>zlink "XUSHSH.m"
```

We now have the new XUSHSH replacing the legacy version and capable of switching to PBKDF2 as soon as the NEW PERSON file is converted.