

, Syskey!

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Windows 10 Fall Creators Update Windows Server 2016 RS3 Microsoft

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Syskey

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2.1

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[Syskey.](#) Syskey

SAM

2.2

syskey.exe



Syskey

Windows NT 4.0 SP3. -
Windows XP

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Microsoft

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2.3

Syskey

128- Syskey Syskey. syskey.exe :

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2.3.1

- , Syskey

HKEY_LOCAL_MACHINE\System\CurrentControlSet\Control\Lsa\JD
HKEY_LOCAL_MACHINE\System\CurrentControlSet\Control\Lsa\Skew1
HKEY_LOCAL_MACHINE\System\CurrentControlSet\Control\Lsa\Data
HKEY_LOCAL_MACHINE\System\CurrentControlSet\Control\Lsa\GBG

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2.3.2

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syskey.exe

Windows 10 Windows Server 2016
syskey.exe Syskey.
Syskey, ! " ?", -
Syskey
EFS,

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syskey.exe

syskey.exe, Microsoft.

3.1

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" Syskey
Syskey, skype/IE/chrome/wifi/lan Syskey,
Syskey Windows Syskey
Windows Syskey

3.2

" Syskey "

Syskey SAM
SHA-256 AES. RC4. MD5
10 Windows
Syskey Syskey.

10-20). (-
 Syskey Windows. Syskey 100. 100 'Letmein123'
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3.3

" "

Microsoft.
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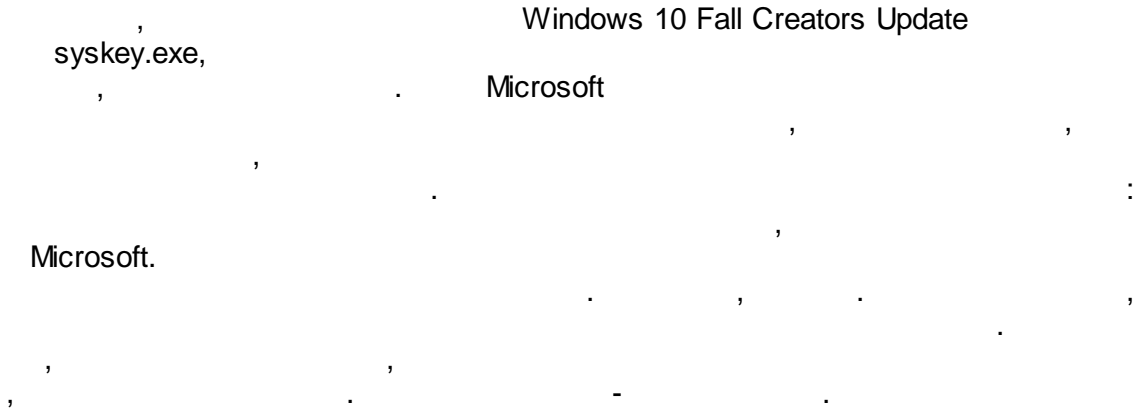
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" "

2014-2017 Windows syskey.exe. ,
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net user USERNAME NEWPASSWORD

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```

1.
SAM           Syskey

BYTE hash[16], pDecodedData[32];
static BYTE samc1[]="!@#%&^*()qwertyUIOPAzxcvbnmQQQQQQQQQQQQ)(*@&%";
static BYTE samc2[]="0123456789012345678901234567890123456789";

//Generate decrypt key
Md5Init();
Md5Update(pSamSessionKey+8,16);
Md5Update(samc1,0x2F);
Md5Update(m_pSyskey,16);
Md5Update(samc2,0x29);
Md5Final(hash);

//Decrypt
memcpy(pDecodedData,pSamSessionKey+24,32);
Rc4SetKey(hash,16);
Rc4Decrypt(pDecodedData,32);

//Check sign
Md5Init();
Md5Update(pDecodedData,16);
Md5Update(samc2,0x29);
Md5Update(pDecodedData,16);
Md5Update(samc1,0x2F);
Md5Final(hash);
    
```

```

if( memcmp(pDecodedData+16,hash,16)==0 )
{
    memcpy(pDecodedSamSessionKey,pDecodedData,16);
    return TRUE;
}
return FALSE;

```

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2.

Syskey

```

BOOL DecryptSyskey(LPCTSTR szJD, LPCTSTR szSkew1, LPCTSTR szGBG, LPCTSTR szData)
{
    BYTE p[]={0xb,0x6,0x7,0x1,0x8,0xa,0xe,0x0,0x3,0x5,0x2,0xf,0xd,0x9,0xc,0x4};
    BYTE pEncryptedKey[16];

    if( !szJD || !szSkew1 || !szGBG || !szData )
        return FALSE;

    //convert to binary
    _stscanf_s(szJD,_T("%X"),(LPDWORD)&pEncryptedKey[0]);
    _stscanf_s(szSkew1,_T("%X"),(LPDWORD)&pEncryptedKey[4]);
    _stscanf_s(szGBG,_T("%X"),(LPDWORD)&pEncryptedKey[8]);
    _stscanf_s(szData,_T("%X"),(LPDWORD)&pEncryptedKey[12]);

    //Permutate
    for( int i=0; i<16; i++ )
        m_pSyskey[i]=pEncryptedKey[p[i]];

    return TRUE;
}

```