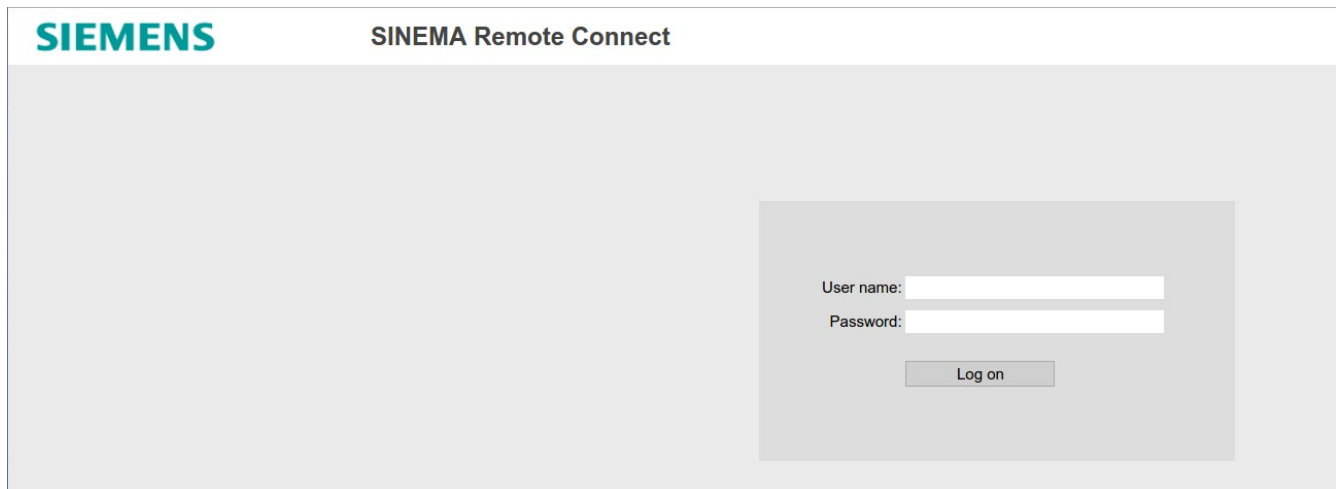


# OpenVPN from Debian Based Linux to Sinema Remote Connect

1. Web browse to Sinema RC



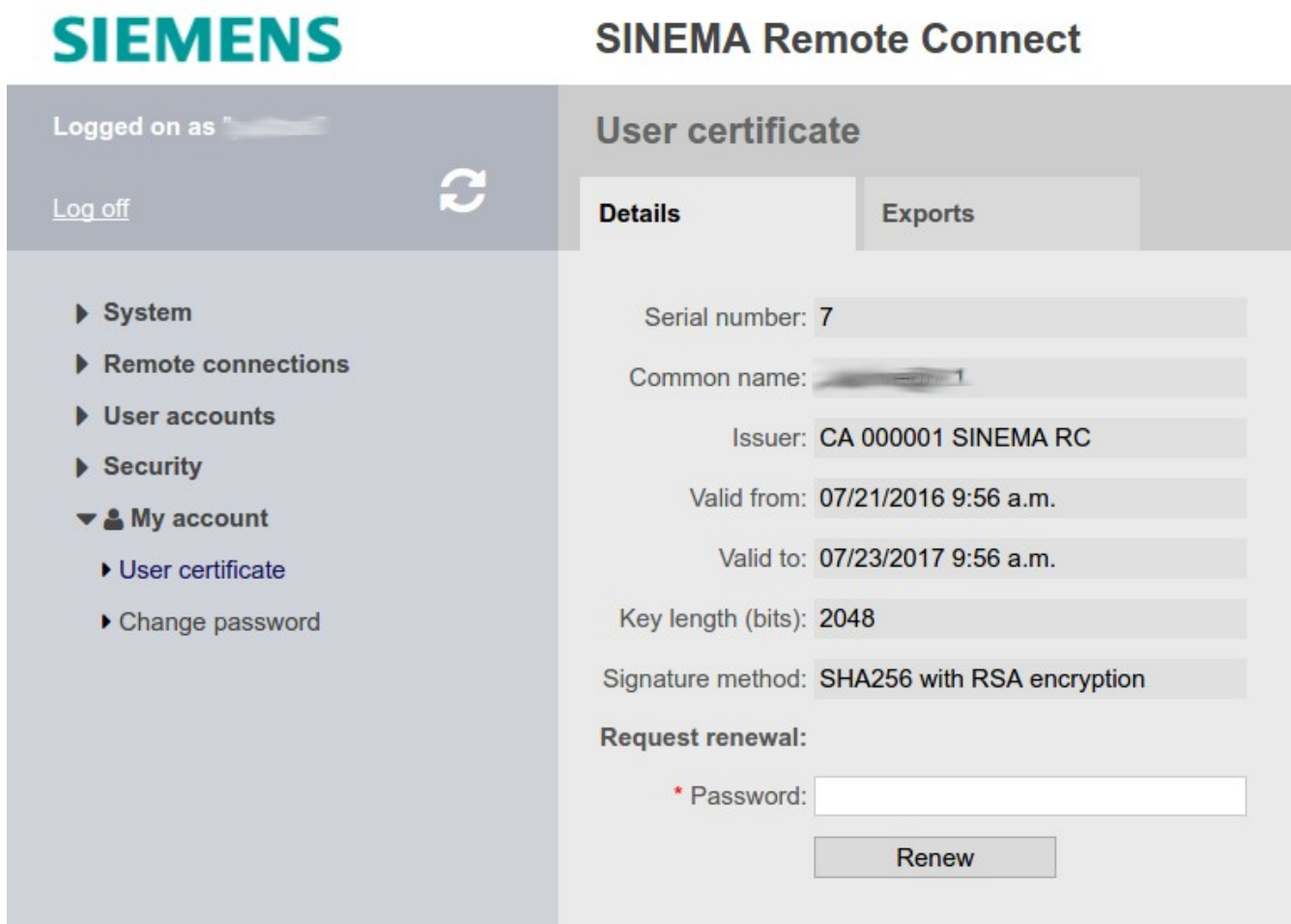
**SIEMENS** SINEMA Remote Connect

User name:


Password:


Log on

2. Login as your user and Browse to My Account



**SIEMENS** SINEMA Remote Connect

Logged on as 


[Log off](#) 

- ▶ System
- ▶ Remote connections
- ▶ User accounts
- ▶ Security
- ▼ **My account**
  - ▶ **User certificate**
  - ▶ Change password

### User certificate

**Details** Exports

Serial number: 7

Common name: 

Issuer: CA 000001 SINEMA RC

Valid from: 07/21/2016 9:56 a.m.

Valid to: 07/23/2017 9:56 a.m.

Key length (bits): 2048

Signature method: SHA256 with RSA encryption

**Request renewal:**

\* Password:

Renew

3. Click Exports and click on OVPN

The screenshot shows the SINEMA Remote Connect web interface. On the left is a navigation menu with options like System, Remote connections, User accounts, Security, and My account. The 'My account' section is expanded to show 'User certificate' and 'Change password'. The main content area is titled 'User certificate' and has two tabs: 'Details' and 'Exports'. The 'Exports' tab is active, displaying a table with two columns: 'Format' and 'Description'. The table lists three export options: PKCS #12, PEM, and OVPN.

Format	Description
<a href="#">PKCS #12</a>	Container in the Personal Information Exchange format (PFX)
<a href="#">PEM</a>	Certificates and key as Base64 encoded ASCII text
<a href="#">OVPN</a>	Export OpenVPN configuration

4. Save the .ovpn file (I used SinemaRC\_Hollywood.ovpn)
5. Open a terminal and cd to the directory where to ovpn file was saved
6. Check for OpenVPN installation

```
File Edit View Search Terminal Help
~$ openvpn --version
OpenVPN 2.3.10 x86_64-pc-linux-gnu [SSL (OpenSSL)] [LZO] [EPOLL] [PKCS11] [MH] [IPv6] built on Feb  2 2016
Library versions: OpenSSL 1.0.2g  1 Mar 2016, LZO 2.08
Originally developed by James Yonan
Copyright (C) 2002-2010 OpenVPN Technologies, Inc. <sales@openvpn.net>
Compile time defines: enable_crypto=yes enable_crypto_obj_cfb=yes enable_debug=yes enable_def_auth=yes enable_dependency_tracking=no enable_dlopen_unknown enable_dlopen_self unknown enable_dlopen_self_static unknown enable_fast_install=yes enable_fragment=yes enable_http_proxy=yes enable_iproute2=yes enable_libtool_lock=yes enable_lzo=yes enable_lzo_stub=no enable_maintainer_mode=no enable_management=yes enable_multi=yes enable_multihome=yes enable_pam_dlopen=no enable_password_save=yes enable_pedantic=no enable_pf=yes enable_pkcs11=yes enable_plugin_auth_pam=yes enable_plugin_down_root=yes enable_plugins=yes enable_port_share=yes enable_selinux=no enable_server=yes enable_shared=yes enable_shared_with_static_runtimes=no enable_silent_rules=no enable_small=no enable_socks=yes enable_ssl=yes enable_static=yes enable_strict=no enable_strict_options=no enable_systemd=yes enable_win32_dll=yes enable_x509_alt_username=yes with_crypto_library=openssl with_gnu_ld=yes with_mem_check=no with_plugindir='${prefix}/lib/openvpn' with_sysroot=no
~$
```

A. If not installed run “sudo apt install openvpn”

## 7. Run "sudo openvpn SinemaRC\_Hollywood.ovpn"

```
File Edit View Search Terminal Help
~/media/Shared/Siemens/Applications/SinemaRC_HollywoodLab $ sudo openvpn SinemaRC_Hollywood.ovpn
Fri Mar 31 10:54:42 2017 OpenVPN 2.3.10 x86_64-pc-linux-gnu [SSL (OpenSSL)] [LZO] [EPOLL] [PKCS11] [MH] [IPv6] built on Feb  2 2016
Fri Mar 31 10:54:42 2017 library versions: OpenSSL 1.0.2g  1 Mar 2016, LZO 2.08
Enter Private Key Password: *****
Fri Mar 31 10:54:48 2017 Socket Buffers: R=[212992->212992] S=[212992->212992]
Fri Mar 31 10:54:48 2017 UDPv4 link local: [undef]
Fri Mar 31 10:54:48 2017 UDPv4 link remote: [AF_INET]70.90.58.213:1194
Fri Mar 31 10:54:48 2017 TLS: Initial packet from [AF_INET]70.90.58.213:1194, sid=93f6cf4e 88b4de20
Fri Mar 31 10:54:48 2017 VERIFY OK: depth=1, CN=CA 000001 SINEMA RC
Fri Mar 31 10:54:48 2017 Validating certificate key usage
Fri Mar 31 10:54:48 2017 ++ Certificate has key usage 00a0, expects 00a0
Fri Mar 31 10:54:48 2017 VERIFY KU OK
Fri Mar 31 10:54:48 2017 Validating certificate extended key usage
Fri Mar 31 10:54:48 2017 ++ Certificate has EKU (str) TLS Web Server Authentication, expects TLS Web Server Authentication
Fri Mar 31 10:54:48 2017 VERIFY EKU OK
Fri Mar 31 10:54:48 2017 VERIFY OK: depth=0, CN=192.168.100.10
Fri Mar 31 10:54:48 2017 Data Channel Encrypt: Cipher 'AES-128-CBC' initialized with 128 bit key
Fri Mar 31 10:54:48 2017 Data Channel Encrypt: Using 256 bit message hash 'SHA256' for HMAC authentication
Fri Mar 31 10:54:48 2017 Data Channel Decrypt: Cipher 'AES-128-CBC' initialized with 128 bit key
Fri Mar 31 10:54:48 2017 Data Channel Decrypt: Using 256 bit message hash 'SHA256' for HMAC authentication
Fri Mar 31 10:54:48 2017 Control Channel: TLSv1, cipher TLSv1/SSLv3 DHE-RSA-AES256-SHA, 2048 bit RSA
Fri Mar 31 10:54:48 2017 [192.168.100.10] Peer Connection Initiated with [AF_INET]70.90.58.213:1194
Fri Mar 31 10:54:50 2017 SENT CONTROL [192.168.100.10]: 'PUSH REQUEST' (status=1)
Fri Mar 31 10:54:51 2017 PUSH: Received control message: 'PUSH_REPLY,topology subnet,route-gateway 10.8.1.1,route 10.8.0.0 255.255.255.0,ping 10,ping-restart 60,route 192.168.11.0 255.255.255.0,route 172.17.1.0 255.255.255.0,route 172.17.0.0 255.255.255.0,route 192.168.31.0 255.255.255.0,route 192.168.10.0 255.255.255.0,route 172.17.2.0 255.255.255.0,route 192.168.13.0 255.255.255.0,route 192.168.2.0 255.255.255.0,route 192.168.3.0 255.255.255.0,route 172.32.0.0 255.255.0.0,ifconfig 10.8.1.13 255.255.255.0'
Fri Mar 31 10:54:51 2017 OPTIONS IMPORT: timers and/or timeouts modified
Fri Mar 31 10:54:51 2017 OPTIONS IMPORT: --ifconfig/up options modified
Fri Mar 31 10:54:51 2017 OPTIONS IMPORT: route options modified
Fri Mar 31 10:54:51 2017 OPTIONS IMPORT: route-related options modified
Fri Mar 31 10:54:51 2017 ROUTE GATEWAY 192.168.1.1/255.255.255.0 IFACE=wlo1 HWADDR=c4:d9:87:cb:13:a8
Fri Mar 31 10:54:51 2017 TUN/TAP device tun0 opened
Fri Mar 31 10:54:51 2017 TUN/TAP TX queue length set to 100
Fri Mar 31 10:54:51 2017 do ifconfig, tt->ipv6=0, tt->did_ifconfig_ipv6_setup=0
Fri Mar 31 10:54:51 2017 /sbin/ip link set dev tun0 up mtu 1500
Fri Mar 31 10:54:51 2017 /sbin/ip addr add dev tun0 10.8.1.13/24 broadcast 10.8.1.255
Fri Mar 31 10:54:53 2017 /sbin/ip route add 10.8.0.0/24 via 10.8.1.1
Fri Mar 31 10:54:53 2017 /sbin/ip route add 192.168.11.0/24 via 10.8.1.1
Fri Mar 31 10:54:53 2017 /sbin/ip route add 172.17.1.0/24 via 10.8.1.1
Fri Mar 31 10:54:53 2017 /sbin/ip route add 172.17.0.0/24 via 10.8.1.1
Fri Mar 31 10:54:53 2017 /sbin/ip route add 192.168.31.0/24 via 10.8.1.1
Fri Mar 31 10:54:53 2017 /sbin/ip route add 192.168.10.0/24 via 10.8.1.1
Fri Mar 31 10:54:53 2017 /sbin/ip route add 172.17.2.0/24 via 10.8.1.1
Fri Mar 31 10:54:53 2017 /sbin/ip route add 192.168.13.0/24 via 10.8.1.1
Fri Mar 31 10:54:53 2017 /sbin/ip route add 192.168.2.0/24 via 10.8.1.1
Fri Mar 31 10:54:53 2017 /sbin/ip route add 192.168.3.0/24 via 10.8.1.1
Fri Mar 31 10:54:53 2017 /sbin/ip route add 172.32.0.0/16 via 10.8.1.1
Fri Mar 31 10:54:53 2017 Initialization Sequence Completed
```

A. "Initialization Sequence Completed" indicates a successful connection