

datasheet

mGuard *secure cloud public*

Highly secure instant remote services



MGUARD SECURE CLOUD QUICK START GUIDE – OCTOBER 2016

The mGuard Secure Cloud offers secure, remote access worldwide in a simple to use format.

This quick start guide covers the basic configuration for one site

(Machine Connection) and one user (Technician Connection)

This is based on the entry level “BASIC EDITION” which allows one machine connection at a time with unlimited user and machine configurations. Further options are available just ask!

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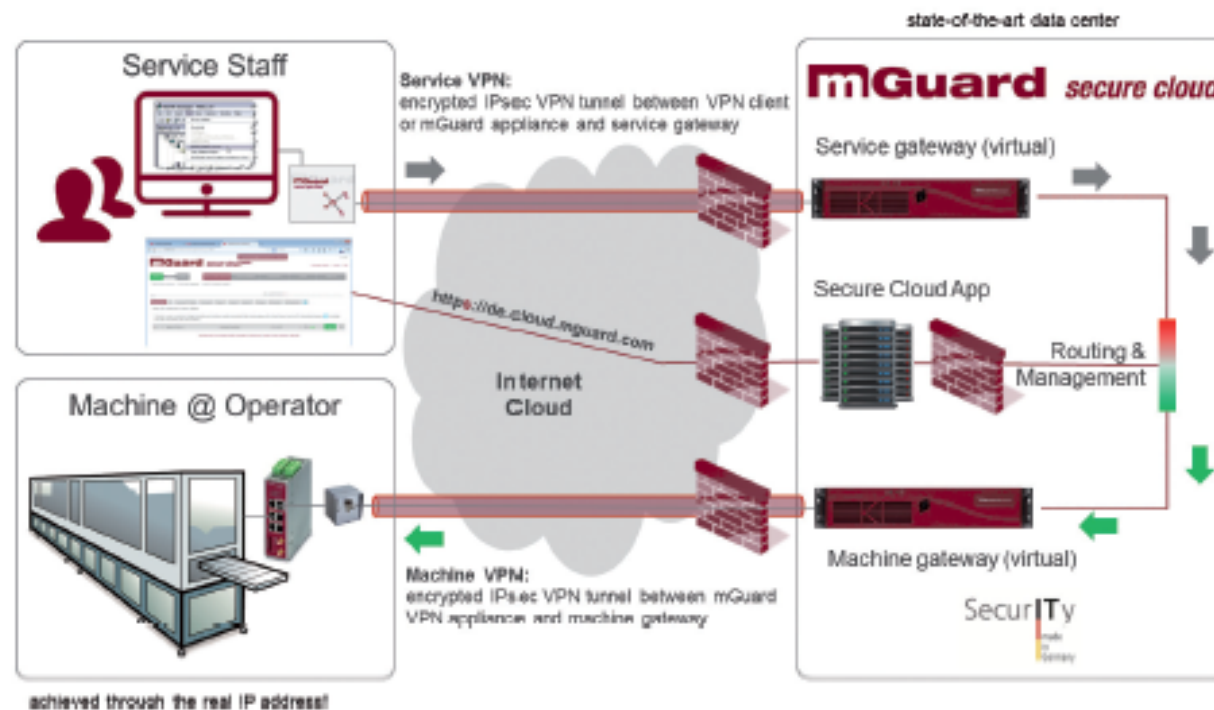
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MGUARD SECURE CLOUD QUICK START GUIDE INTRO

The mGuard Secure Cloud is managed by Phoenix Contact Cyber Security based in Berlin.

The hardware is maintained by a third party hosting centre to ensure 24/7 /365 day reliability.

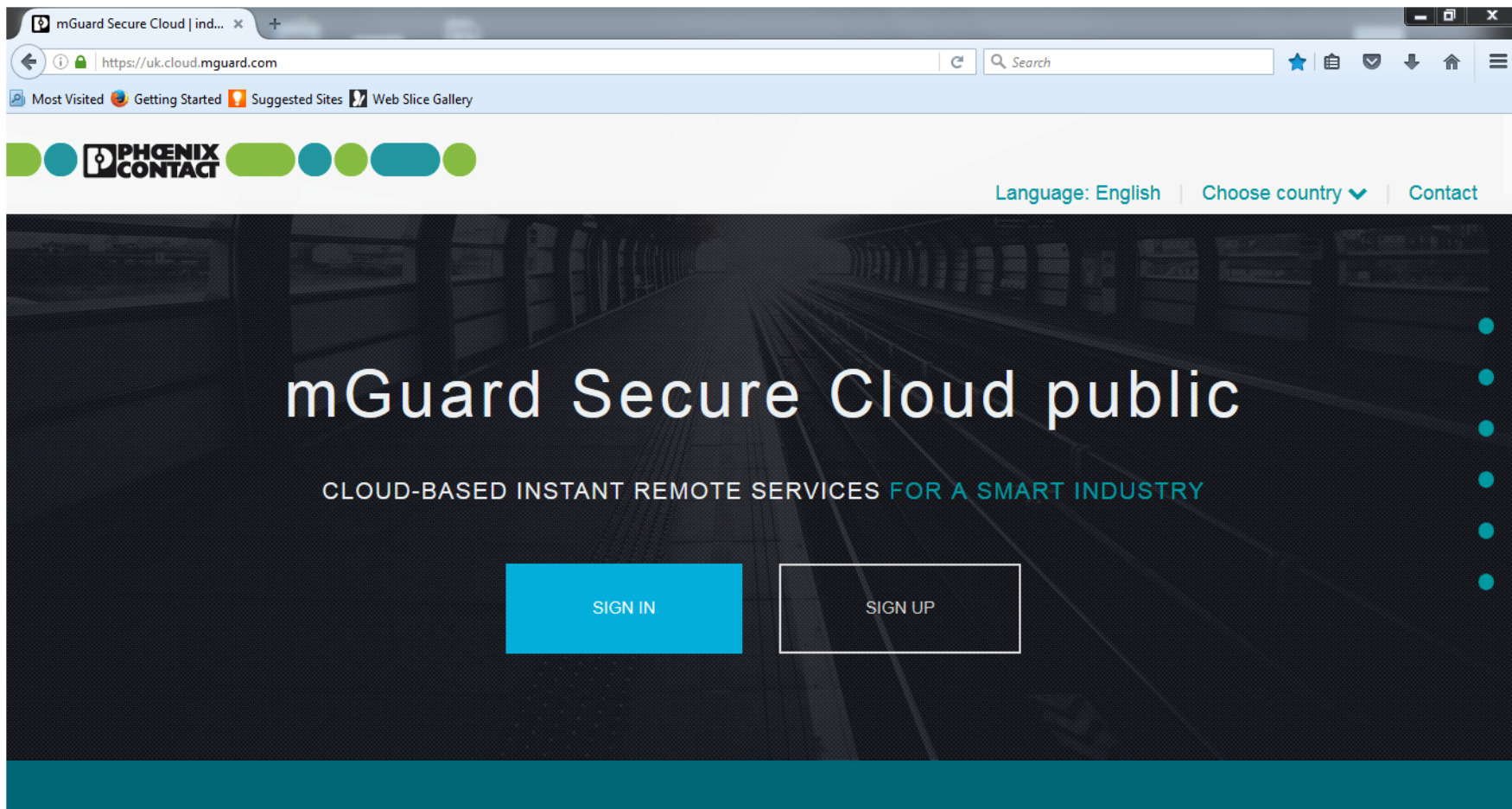
The diagram below shows the standard topology used for standard remote access.



MGUARD SECURE CLOUD QUICK START GUIDE - ACCOUNT REGISTRATION

The first step is to get registered on the cloud. Go to <https://uk.cloud.mguard.com>

Click on “SIGN UP” and fill in your company details etc. as prompted



MGUARD SECURE CLOUD QUICK START GUIDE - ACCOUNT REGISTRATION

REGISTRATION FORM

Company name: *

Department: *

Street, house number: *

Zip code: *

City: *

State: *

Germany | Deutschland ▼

Billing information (alternative address):

Valid e-mail address: *

First name: *

Last name: *

Phone number: *

Fax:

Password: *

Repeat password: *

How did you hear about us? *

* = mandatory field
- passwords must be at least 8 characters long and should contain letters, numbers and special characters.

Machine network

Please enter the destination network, which you want to reach through your VPN connection, for example, *IP address of the network: 192.168.1.0* and *Netmask: 255.255.255.0*.

Note that the IP address of the network must be a private IP address, i.e. within the following subnets:
10.0.0.0/8, 172.16.0.0/12, 192.168.0.0/16

IP address of the network: *

192.168.1.0

Netmask: *

255.255.255.0 ▼

Machine network

Please enter the destination network, which you want to reach through your VPN connection, for example, *IP address of the network: 192.168.1.0* and *Netmask: 255.255.255.0*.

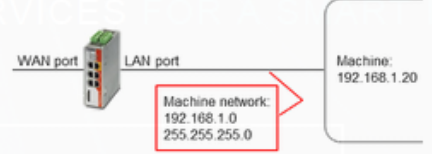
Note that the IP address of the network must be a private IP address, i.e. within the following subnets:
10.0.0.0/8, 172.16.0.0/12, 192.168.0.0/16

IP address of the network: *

192.168.1.0

Netmask: *

255.255.255.0 ▼

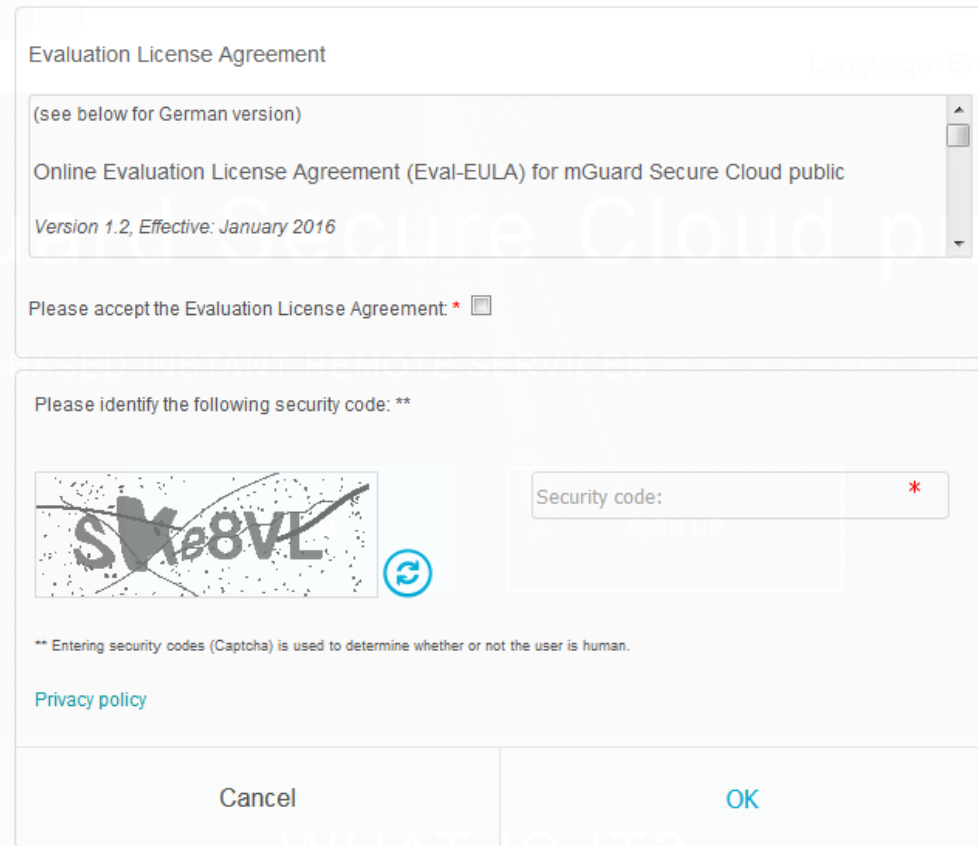


IMPORTANT

You will need to specify the network you will use at your target machine/s. This is essential for the Cloud to produce the correct configurations for your mGuard device and technician connections.

MGUARD SECURE CLOUD QUICK START GUIDE - ACCOUNT REGISTRATION

You will need to accept the evaluation license agreement, enter the security code and then "OK"



Evaluation License Agreement

(see below for German version)

Online Evaluation License Agreement (Eval-EULA) for mGuard Secure Cloud public

Version 1.2, Effective: January 2016

Please accept the Evaluation License Agreement: *

Please identify the following security code: **

Security code: *

** Entering security codes (Captcha) is used to determine whether or not the user is human.

[Privacy policy](#)

Cancel OK

Your registration is complete and in a short time you will receive a welcome e-mail containing several attachments:

1. The secure cloud user guide
2. User license agreement form
3. Price list for enhanced services

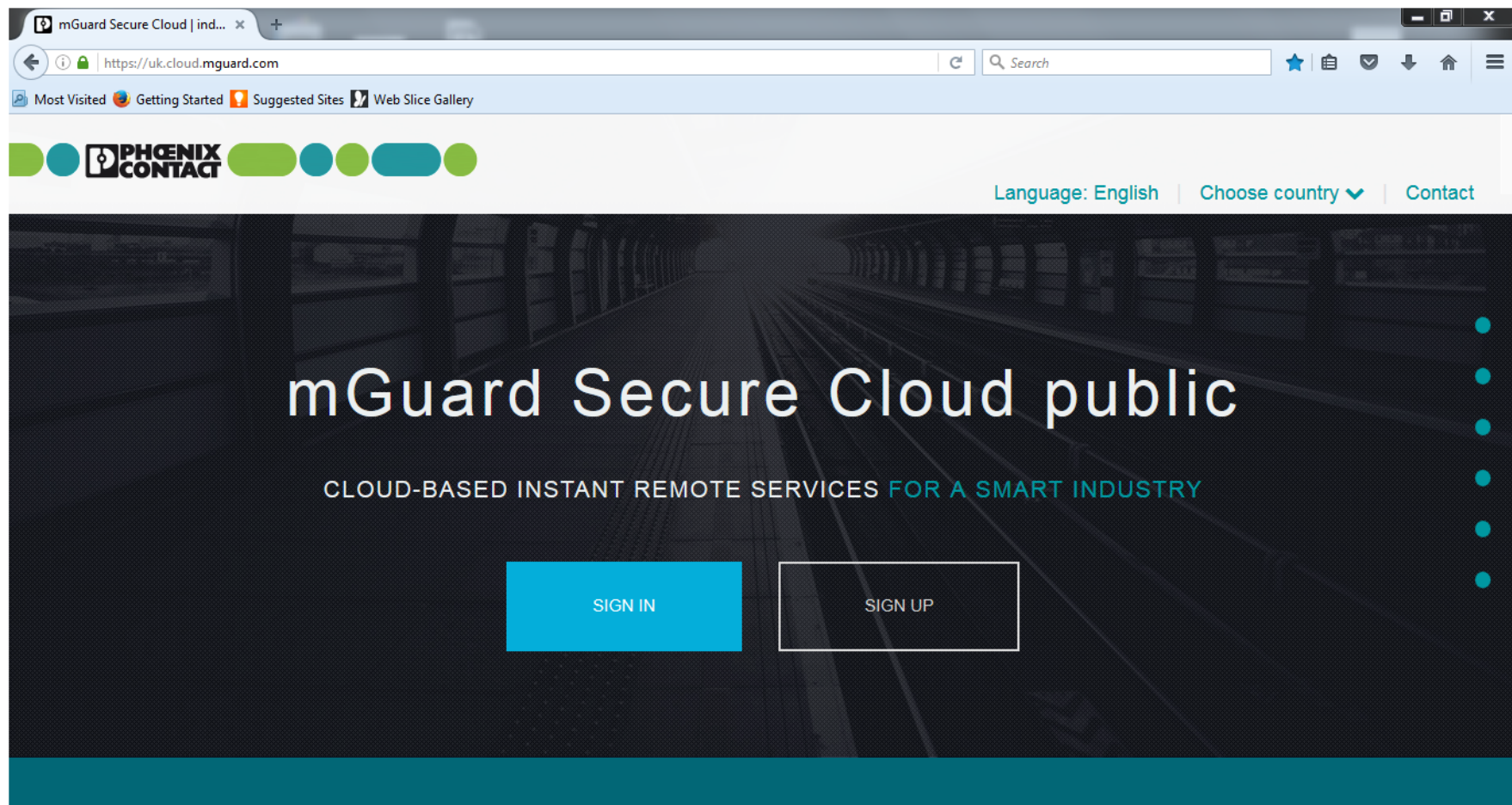
IMPORTANT – You must sign and return the license agreement form as instructed if you wish to continue using the cloud after the 30 day trial period.

Otherwise your account will be frozen after the 30 days expires.

There are no financial implications when signing this form.
It is purely agreeing to the terms of use.

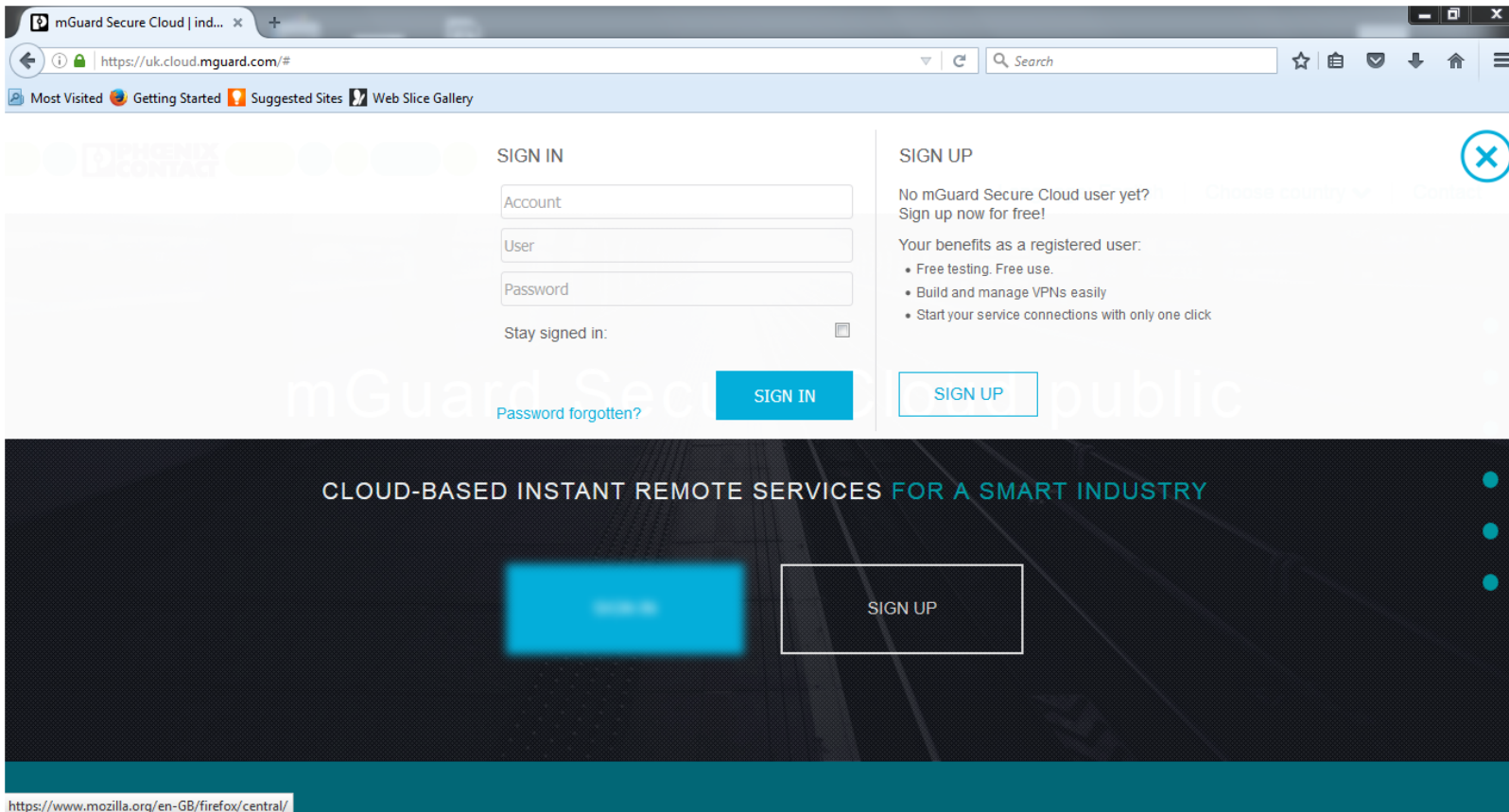
MGUARD SECURE CLOUD QUICK START GUIDE

Now you are registered “SIGN IN”



MGUARD SECURE CLOUD QUICK START GUIDE

Use the account number provided in your welcome email and the user and password you used to create your account.



mGuard Secure Cloud | ind... x

https://uk.cloud.mguard.com/#

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SIGN IN

Account

User

Password

Stay signed in: ☐

[Password forgotten?](#)

SIGN IN

SIGN UP

No mGuard Secure Cloud user yet? [Choose country](#) [Contact](#)

Sign up now for free!

Your benefits as a registered user:

- Free testing. Free use.
- Build and manage VPNs easily
- Start your service connections with only one click

SIGN UP

CLOUD-BASED INSTANT REMOTE SERVICES FOR A SMART INDUSTRY

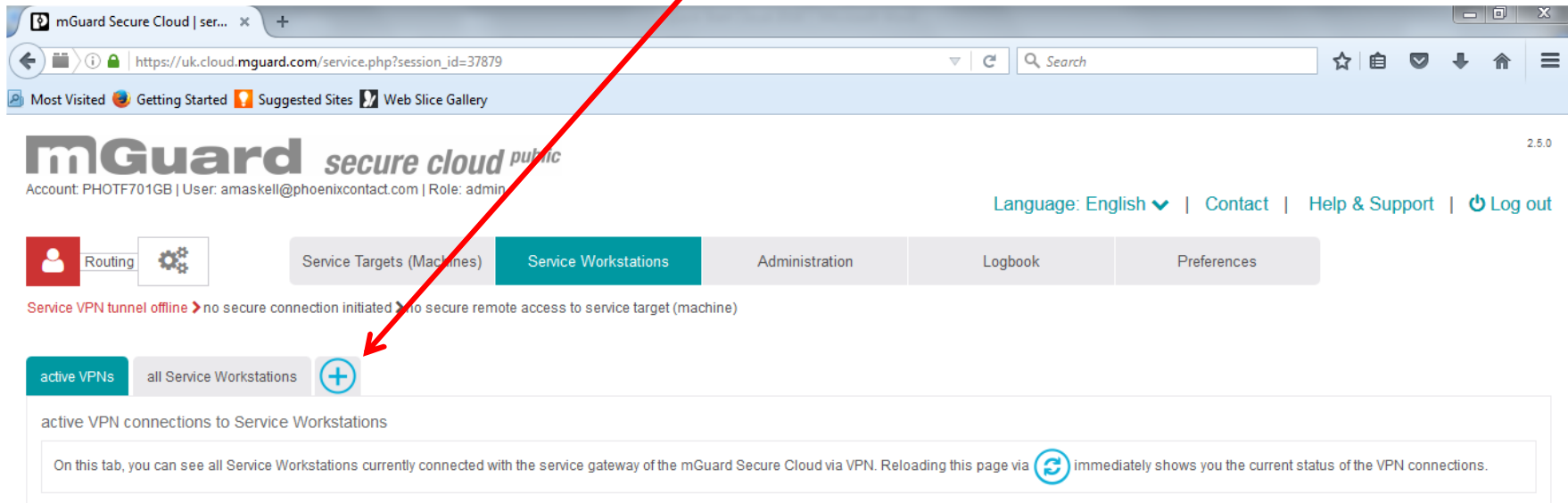
SIGN IN

SIGN UP

https://www.mozilla.org/en-GB/firefox/central/

MGUARD SECURE CLOUD QUICK START GUIDE – Creating an operator profile (SERVICE WORKSTATION)

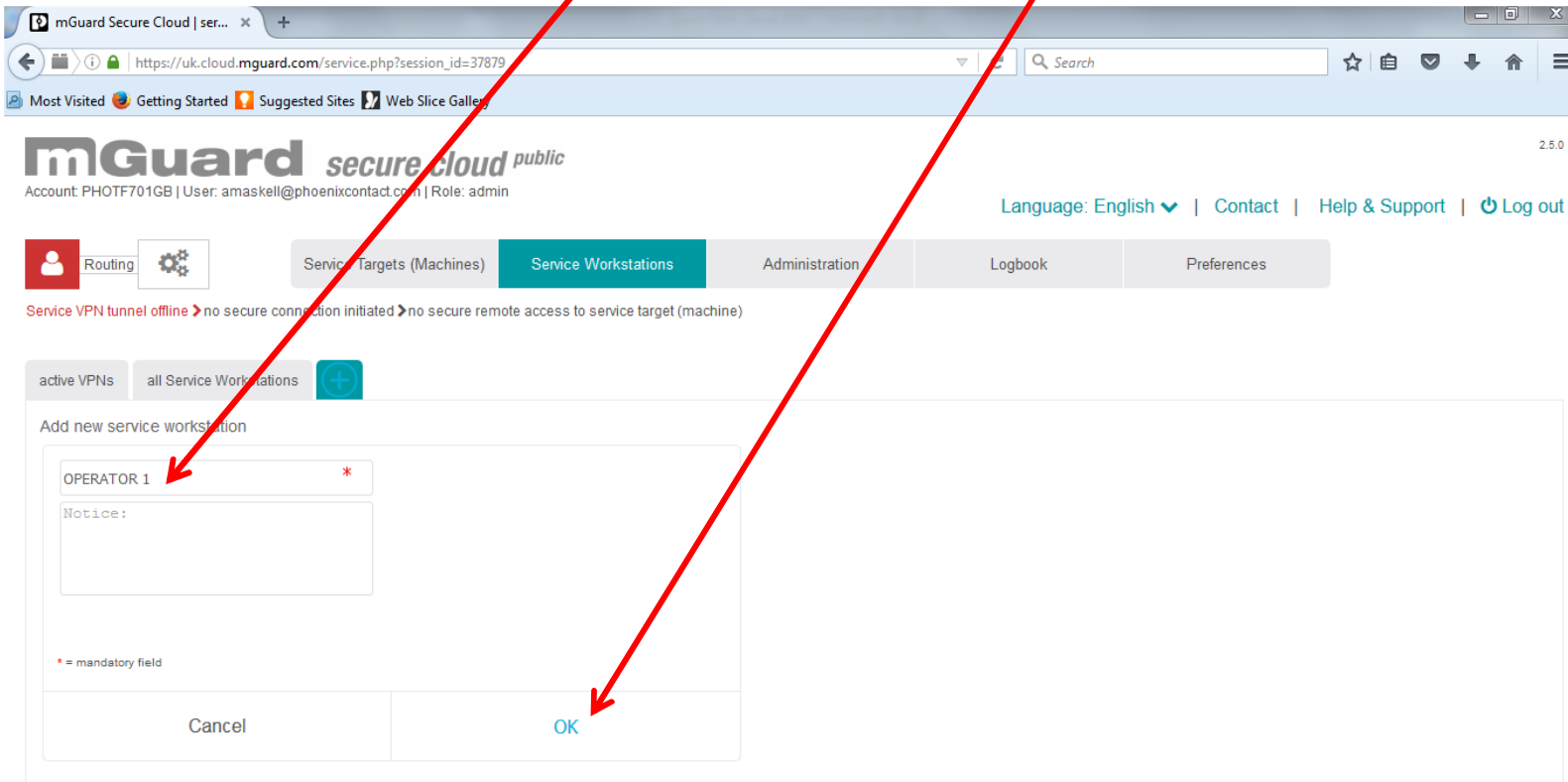
Select Service Workstations and click the +



The Service Workstation is necessary to create a secure VPN between the remote user and the cloud server to enable routing through to your chosen site configuration.

MGUARD SECURE CLOUD QUICK START GUIDE – Creating an operator profile (SERVICE WORKSTATION)

Add the new operator name and press OK



mGuard Secure Cloud | ser... x +

https://uk.cloud.mguard.com/service.php?session_id=37879

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mGuard secure cloud public 2.5.0

Account: PHOTF701GB | User: amaskell@phoenixcontact.com | Role: admin

Language: English | Contact | Help & Support | Log out

Routing Service Targets (Machines) Service Workstations Administration Logbook Preferences

Service VPN tunnel offline > no secure connection initiated > no secure remote access to service target (machine)

active VPNs all Service Workstations

Add new service workstation

OPERATOR 1 *

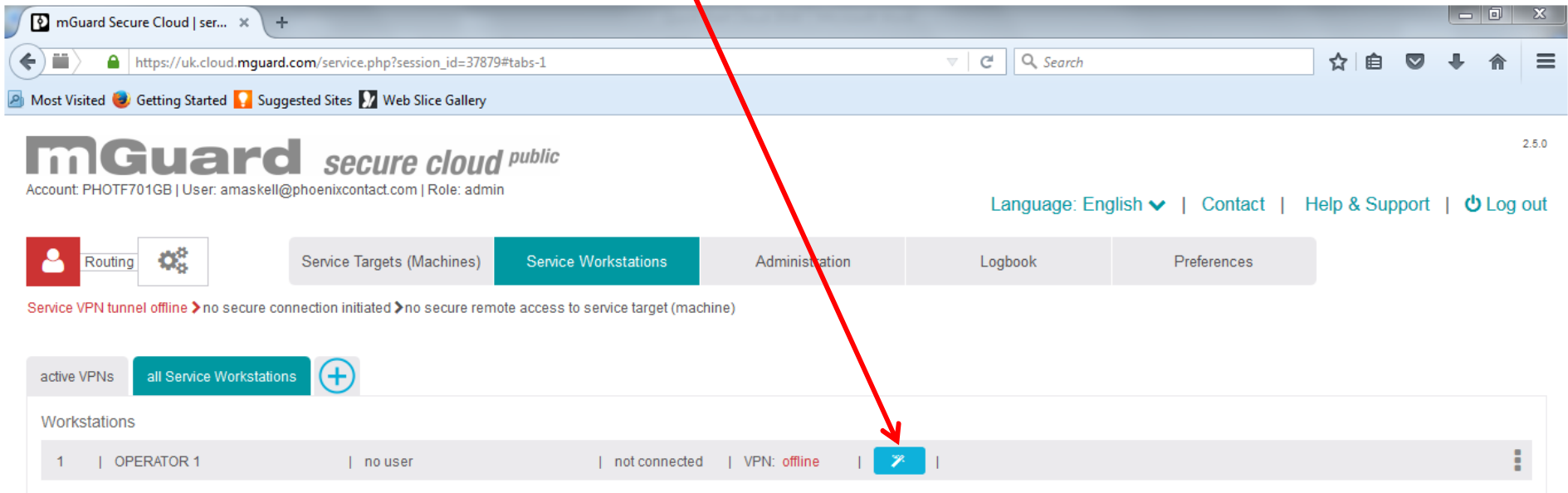
Notice:

* = mandatory field

Cancel OK

MGUARD SECURE CLOUD QUICK START GUIDE – Creating an operator profile (SERVICE WORKSTATION)

Click on the Wizard symbol to create your operator profile

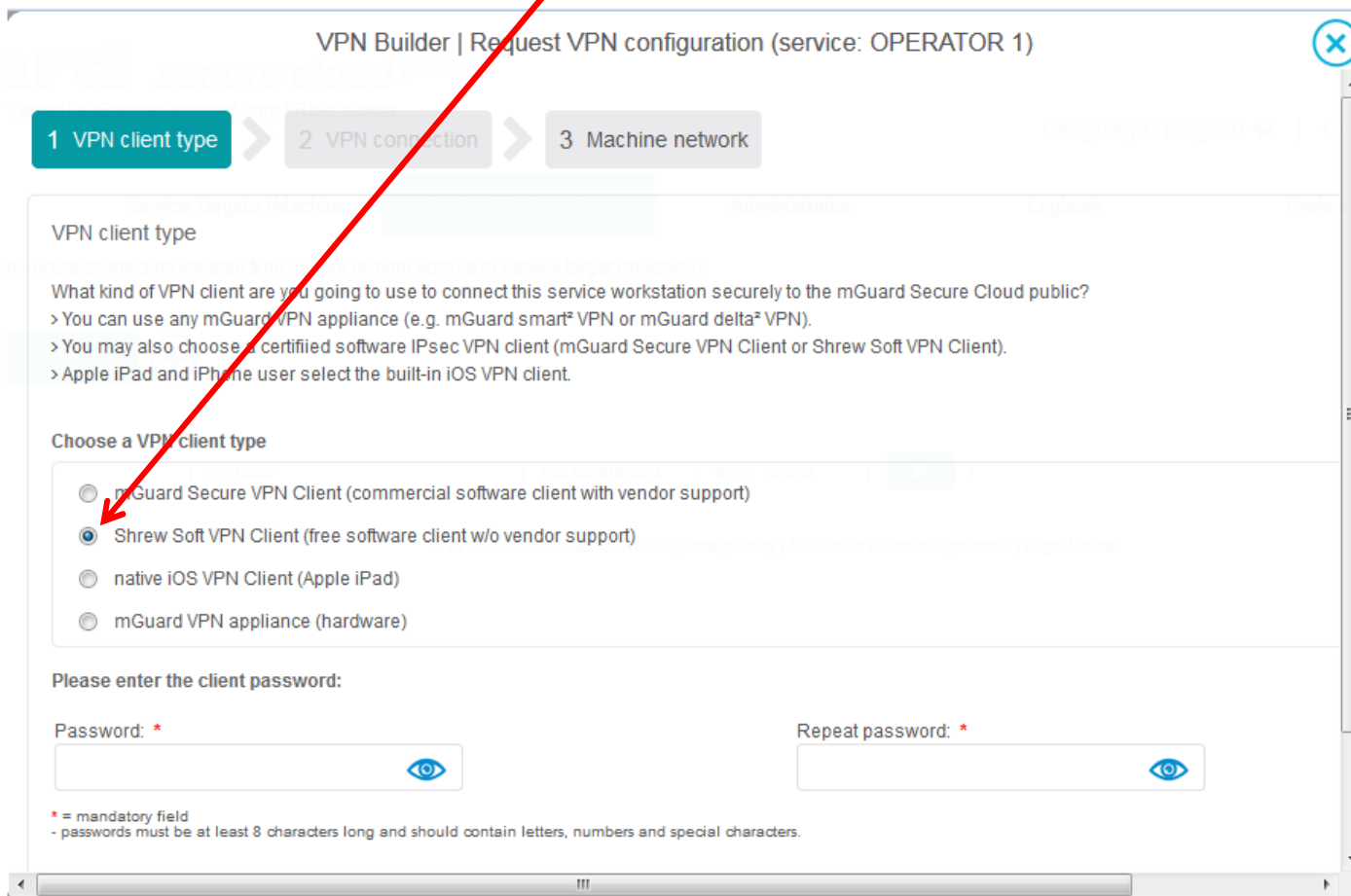


The screenshot shows the mGuard Secure Cloud web interface. The browser address bar displays the URL: https://uk.cloud.mguard.com/service.php?session_id=37879#tabs-1. The page header includes the mGuard logo, account information (Account: PHOTF701GB | User: amaskell@phoenixcontact.com | Role: admin), and navigation links (Language: English, Contact, Help & Support, Log out). The main navigation bar has tabs for Routing, Service Targets (Machines), Service Workstations (selected), Administration, Logbook, and Preferences. Below the navigation bar, a status message reads: "Service VPN tunnel offline > no secure connection initiated > no secure remote access to service target (machine)". The "all Service Workstations" tab is active, showing a table of workstations. The table has columns for ID, Name, User, Status, and VPN. The first row is for "OPERATOR 1" with status "not connected" and VPN "offline". A red arrow points to the "Wizard" icon (a blue square with a white pencil) in the actions column for "OPERATOR 1".

ID	Name	User	Status	VPN	Actions
1	OPERATOR 1	no user	not connected	VPN: offline	Wizard

MGUARD SECURE CLOUD QUICK START GUIDE – Creating an operator profile (SERVICE WORKSTATION) (SHREWSOFT VPN CLIENT)

Select the VPN client you wish to use – In this case we will select shrewsoft
Create a password and then click next



VPN Builder | Request VPN configuration (service: OPERATOR 1)

1 VPN client type > 2 VPN connection > 3 Machine network

VPN client type


What kind of VPN client are you going to use to connect this service workstation securely to the mGuard Secure Cloud public?


- > You can use any mGuard VPN appliance (e.g. mGuard smart² VPN or mGuard delta² VPN).
- > You may also choose a certified software IPsec VPN client (mGuard Secure VPN Client or Shrew Soft VPN Client).
- > Apple iPad and iPhone user select the built-in iOS VPN client.

Choose a VPN client type

- ☐ mGuard Secure VPN Client (commercial software client with vendor support)
- ☒ Shrew Soft VPN Client (free software client w/o vendor support)
- ☐ native iOS VPN Client (Apple iPad)
- ☐ mGuard VPN appliance (hardware)

Please enter the client password:

Password: * 

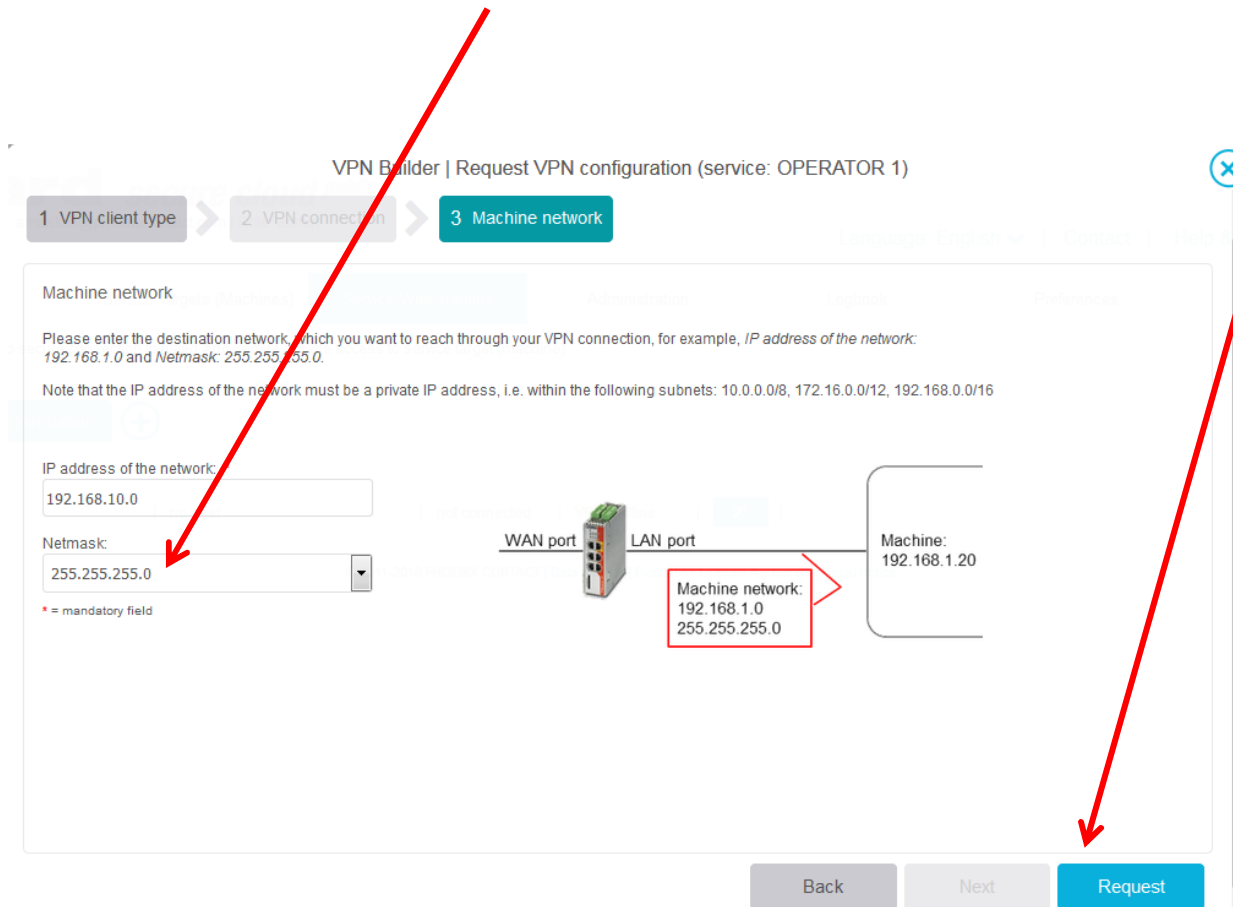
Repeat password: * 

* = mandatory field
- passwords must be at least 8 characters long and should contain letters, numbers and special characters.

MGUARD SECURE CLOUD QUICK START GUIDE – Creating an operator profile (SERVICE WORKSTATION) (SHREWSOFT VPN CLIENT)

Select the IP address of the network you want to reach

This is the IP address range you selected when you created the account – Then click REQUEST



VPN Builder | Request VPN configuration (service: OPERATOR 1)

1 VPN client type > 2 VPN connection > 3 Machine network

Machine network

Please enter the destination network, which you want to reach through your VPN connection, for example, IP address of the network: 192.168.1.0 and Netmask: 255.255.255.0.

Note that the IP address of the network must be a private IP address, i.e. within the following subnets: 10.0.0.0/8, 172.16.0.0/12, 192.168.0.0/16

IP address of the network: 192.168.10.0

Netmask: 255.255.255.0

* = mandatory field

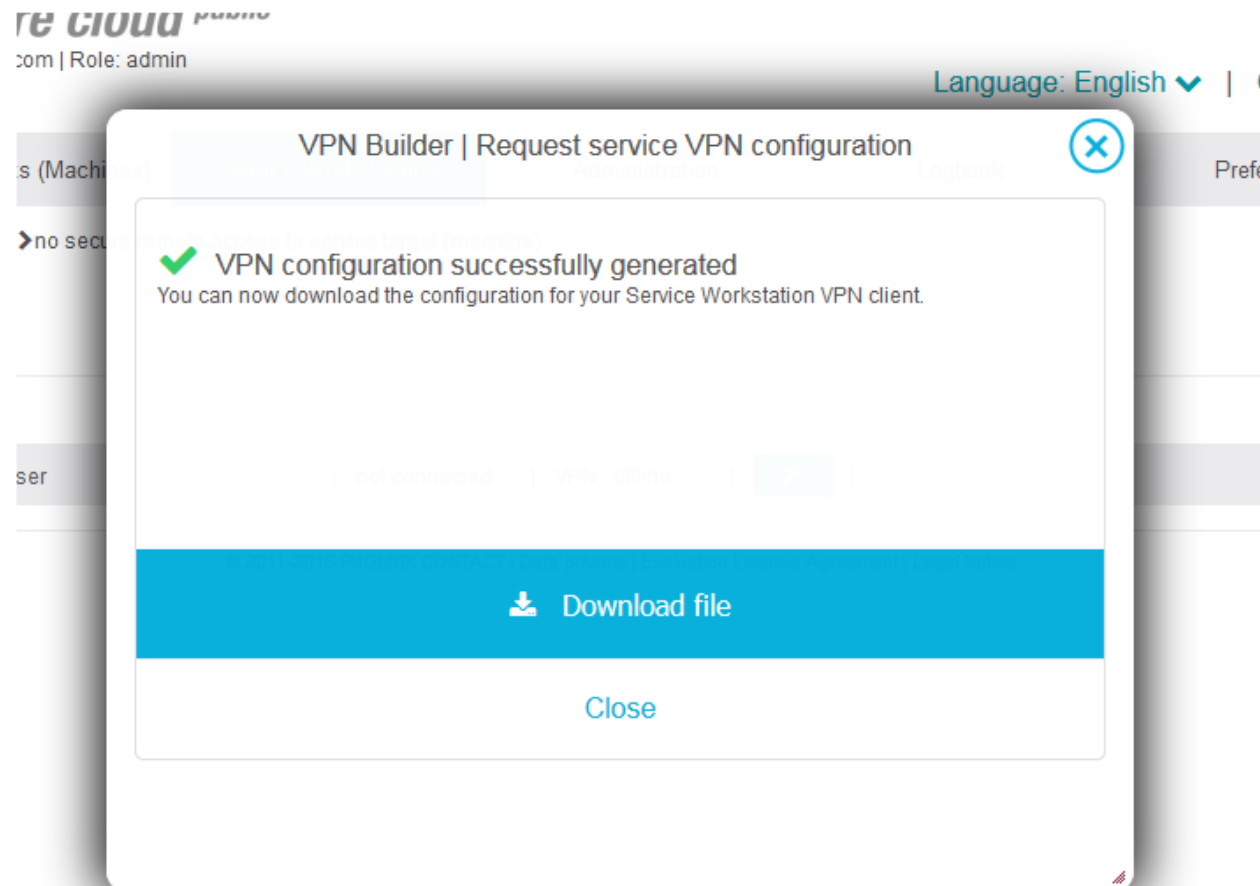
Machine network: 192.168.1.0 255.255.255.0

Machine: 192.168.1.20

Back Next Request

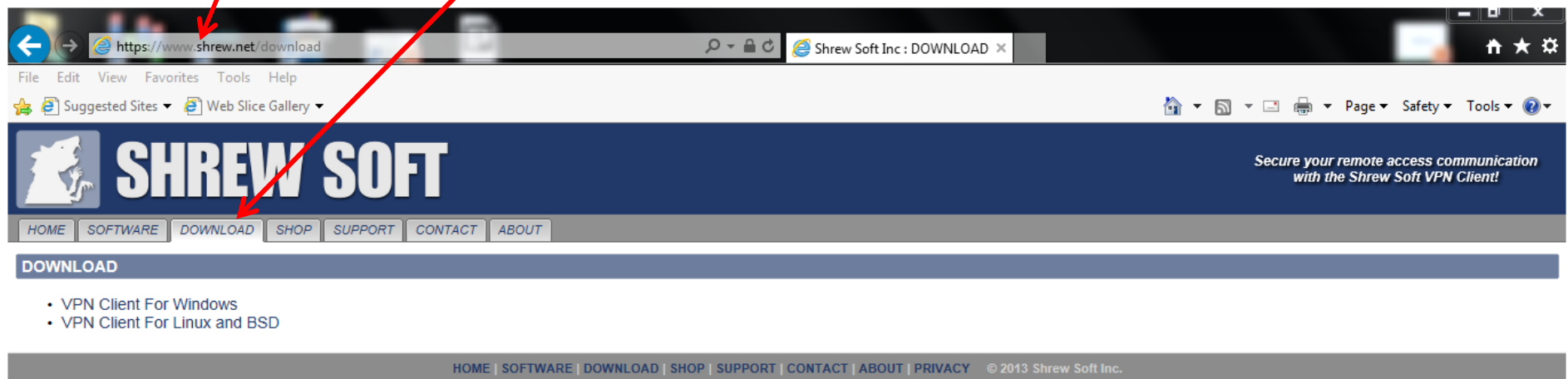
MGUARD SECURE CLOUD QUICK START GUIDE – Creating an operator profile (SERVICE WORKSTATION) (SHREWSOFT VPN CLIENT)

Your user profile has been created – Download this to your PC ready to import to the shrewsoft VPN Client

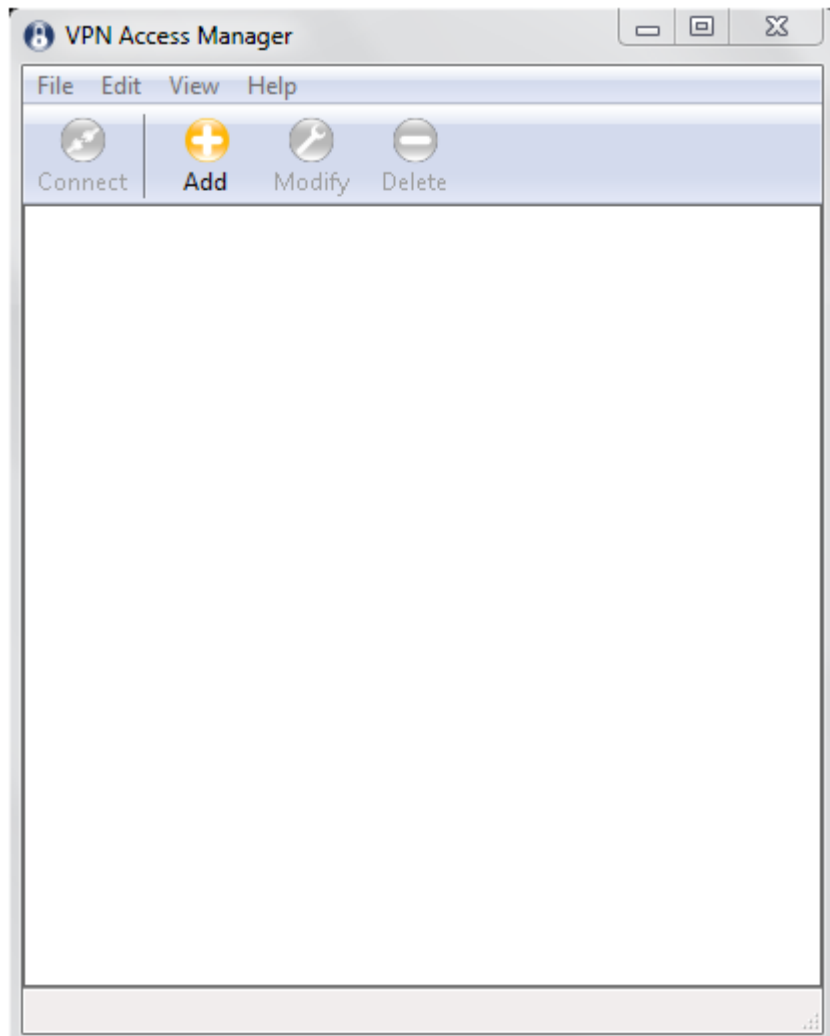


MGUARD SECURE CLOUD QUICK START GUIDE – Creating an operator profile (SERVICE WORKSTATION) (SHREWSOFT VPN CLIENT)

Go to the shrewsoft website and download the latest shrewsoft VPN client for your OS
and install.



MGUARD SECURE CLOUD QUICK START GUIDE – Creating an operator profile (SERVICE WORKSTATION) (SHREWSOFT VPN CLIENT)

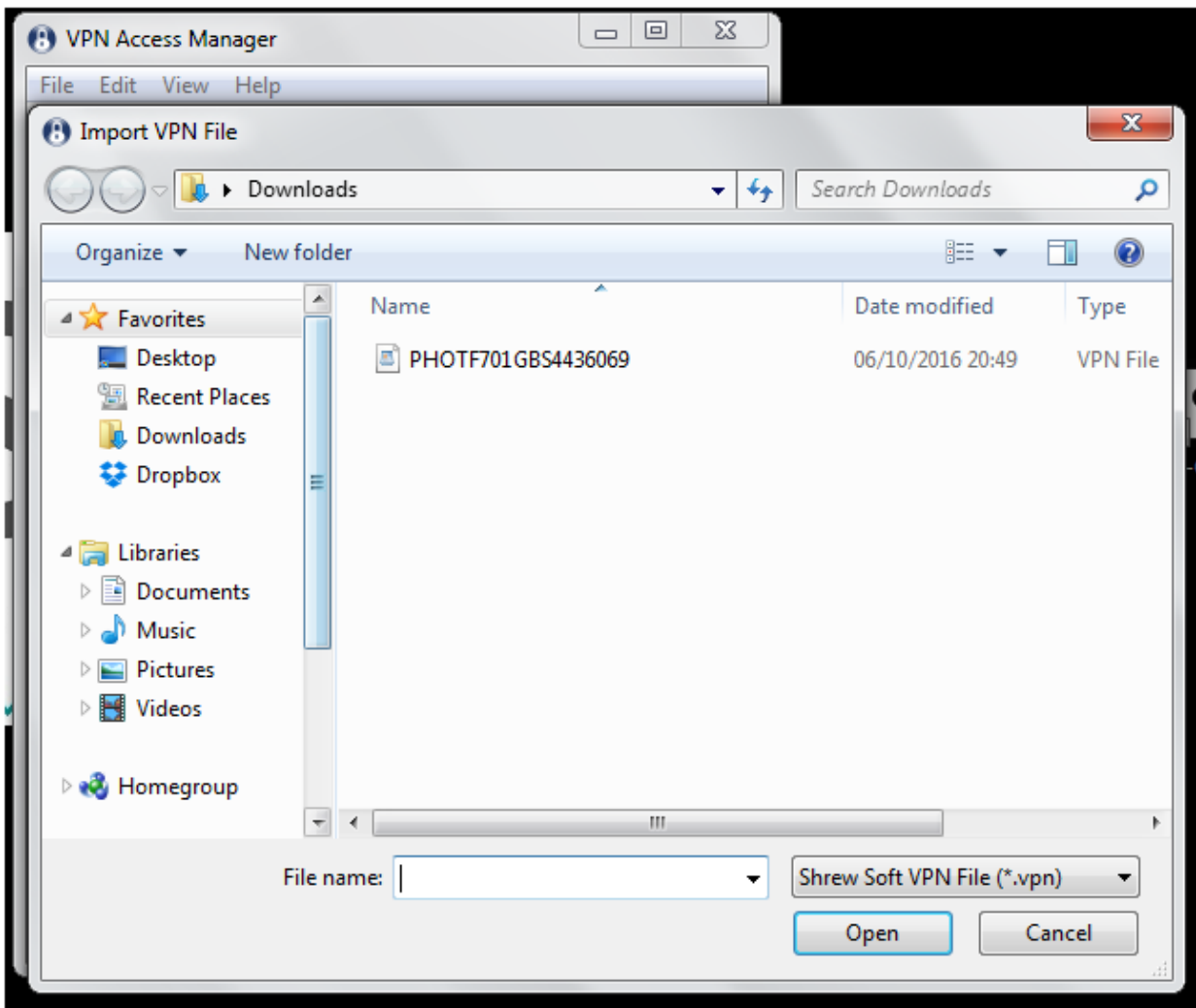


Once installed open the shrewsoft VPN client.

Click on “FILE” and then “IMPORT”

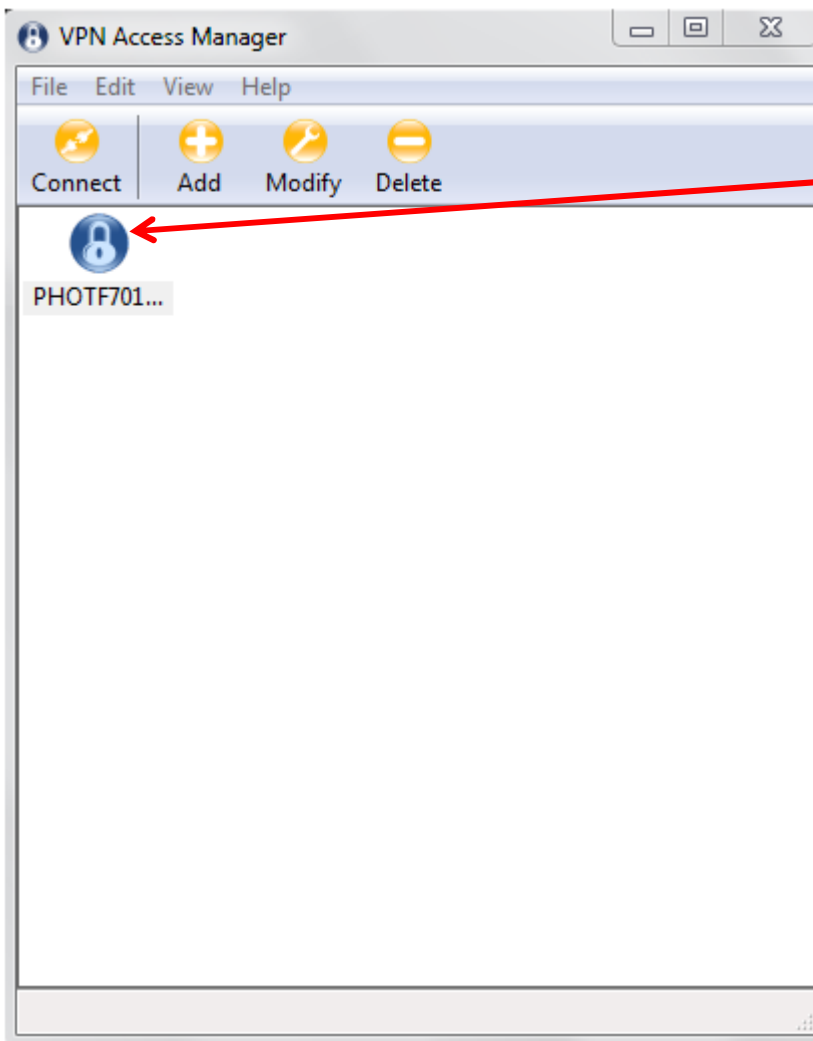
Find the client configuration you created and downloaded on
page 13.

MGUARD SECURE CLOUD QUICK START GUIDE – Creating an operator profile (SERVICE WORKSTATION) (SHREWSOFT VPN CLIENT)



“IMPORT” this file.

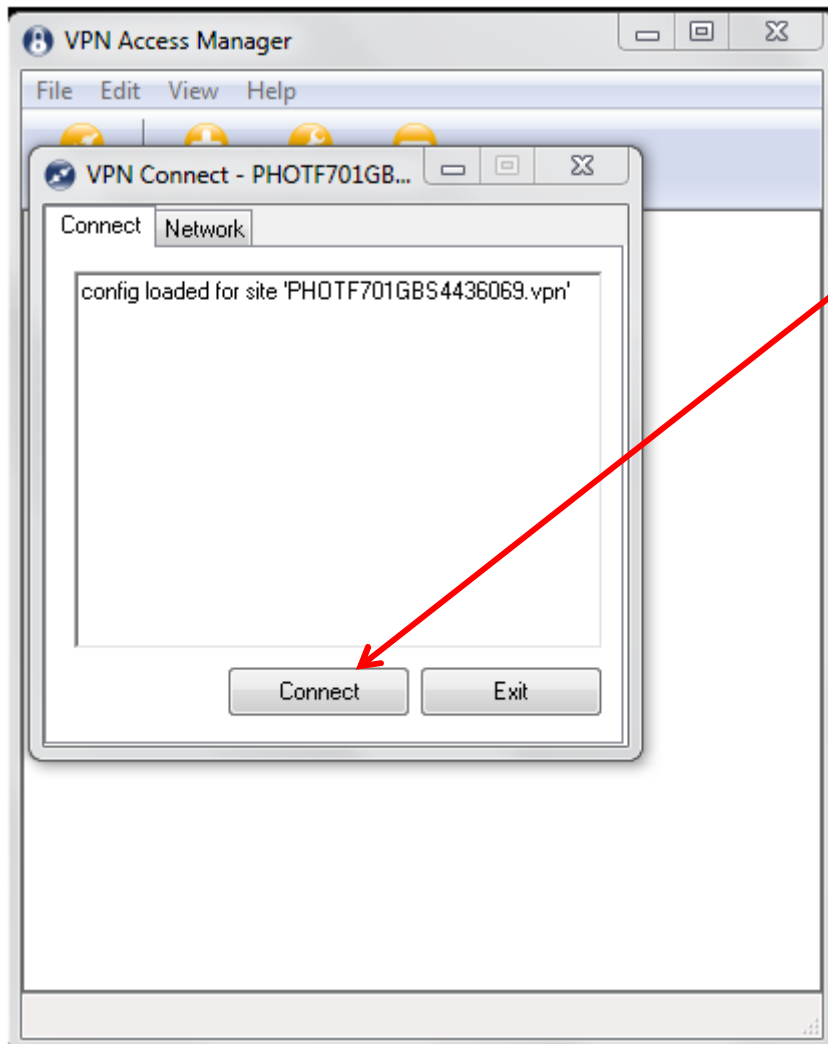
MGUARD SECURE CLOUD QUICK START GUIDE – Creating an operator profile (SERVICE WORKSTATION)
(SHREWSOFT VPN CLIENT)



Now click on the the "ICON" to initiate the VPN connection to the
CLOUD server. This creates a secure VPN from your PC to the
CLOUD Server.

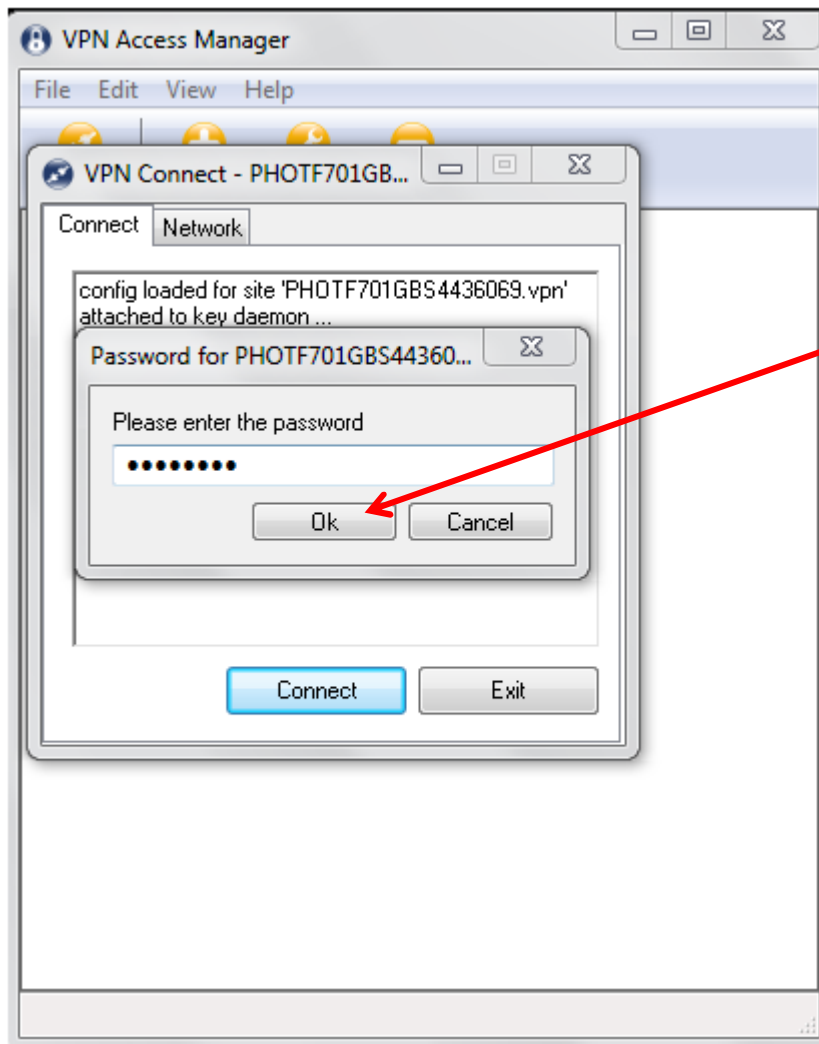
MGUARD SECURE CLOUD QUICK START GUIDE – Creating an operator profile (SERVICE WORKSTATION)

(SHREWSOFT VPN CLIENT)



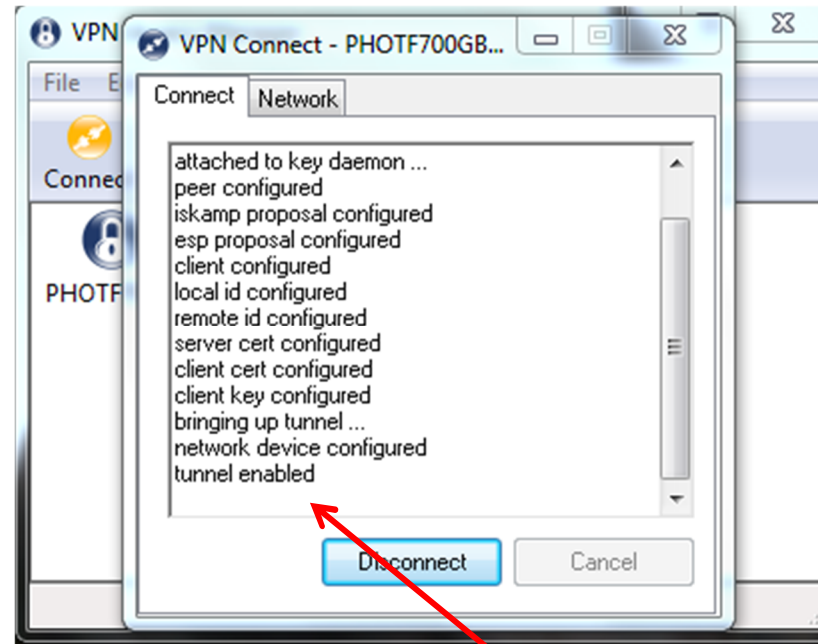
Click "Connect"

MGUARD SECURE CLOUD QUICK START GUIDE – Creating an operator profile (SERVICE WORKSTATION) (SHREWSOFT VPN CLIENT)



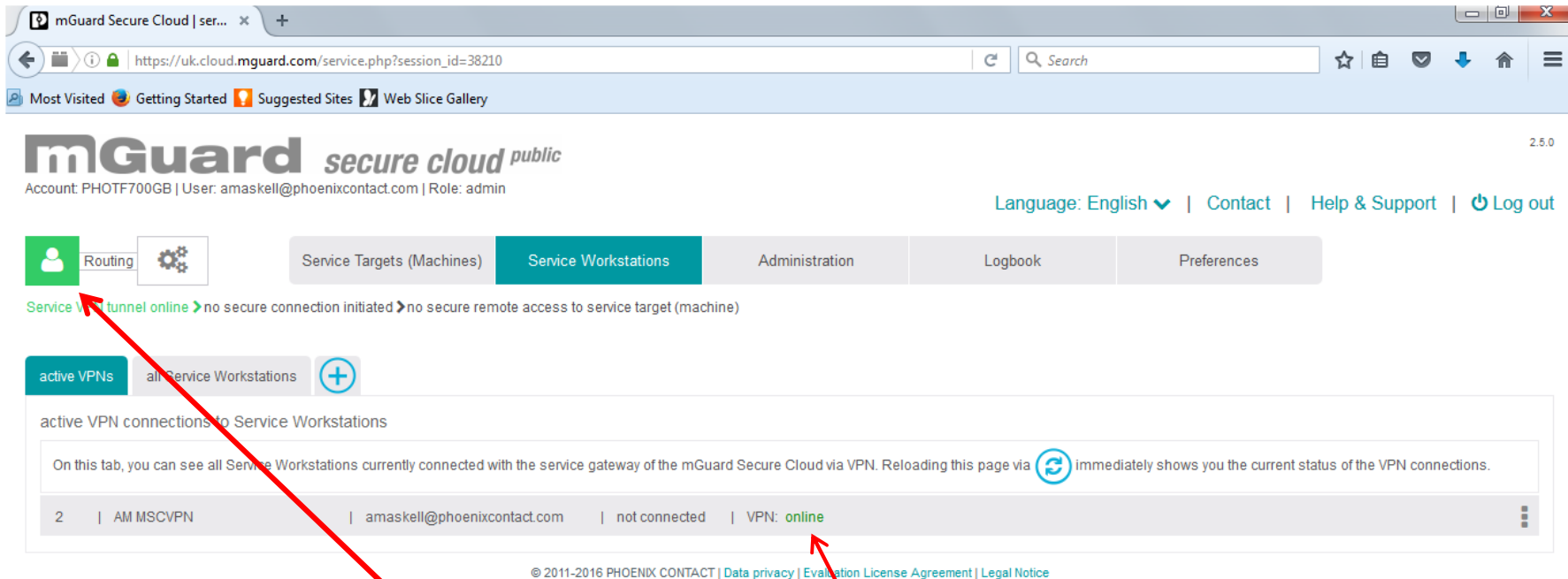
You will be prompted for your password. Enter your password and click on "OK"

MGUARD SECURE CLOUD QUICK START GUIDE – Creating an operator profile (SERVICE WORKSTATION) (SHREWSOFT VPN CLIENT)



You will see as above "tunnel enabled"

MGUARD SECURE CLOUD QUICK START GUIDE – Creating an operator profile (SERVICE WORKSTATION) (SHREWSOFT VPN CLIENT)



mGuard secure cloud public

Account: PHOTF700GB | User: amaskell@phoenixcontact.com | Role: admin


Language: English | Contact | Help & Support | Log out

Routing Service Targets (Machines) Service Workstations Administration Logbook Preferences

Service Workstation online > no secure connection initiated > no secure remote access to service target (machine)

active VPNs all Service Workstations

active VPN connections to Service Workstations

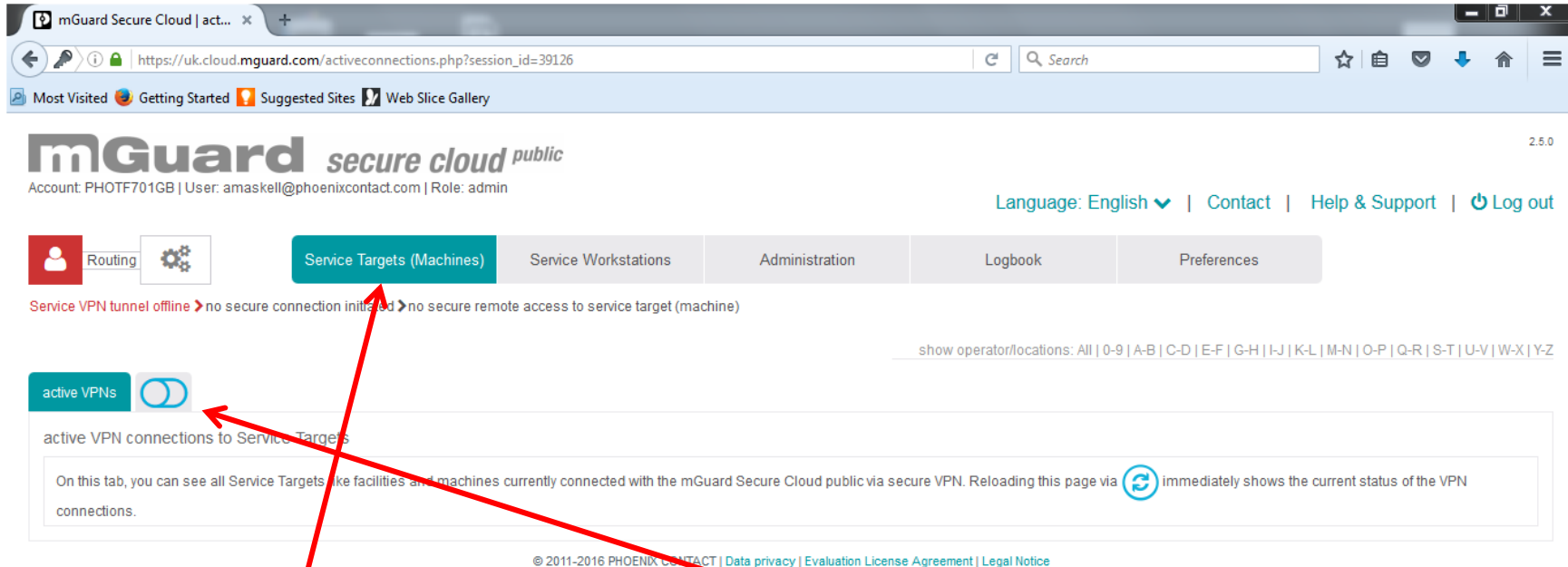
On this tab, you can see all Service Workstations currently connected with the service gateway of the mGuard Secure Cloud via VPN. Reloading this page via  immediately shows you the current status of the VPN connections.

2	AM MSCVPN	amaskell@phoenixcontact.com	not connected	VPN: online
---	-----------	-----------------------------	---------------	-------------

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You have now connected to the CLOUD from your PC. You will see the icon turn green to indicate the connection and the connections that are active listed below.

MGUARD SECURE CLOUD QUICK START GUIDE – Creating an operator profile (SERVICE TARGETS/MACHINES) (mGuard configuration)



mGuard Secure Cloud | act... x

https://uk.cloud.mguard.com/activeconnections.php?session_id=39126

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mGuard *secure cloud* public 2.5.0

Account: PHOTF701GB | User: amaskell@phoenixcontact.com | Role: admin

Language: English ▼ | Contact | Help & Support | Log out


Routing Service Targets (Machines) Service Workstations Administration Logbook Preferences

Service VPN tunnel offline > no secure connection initiated > no secure remote access to service target (machine)

show operator/locations: All | 0-9 | A-B | C-D | E-F | G-H | I-J | K-L | M-N | O-P | Q-R | S-T | U-V | W-X | Y-Z

active VPNs

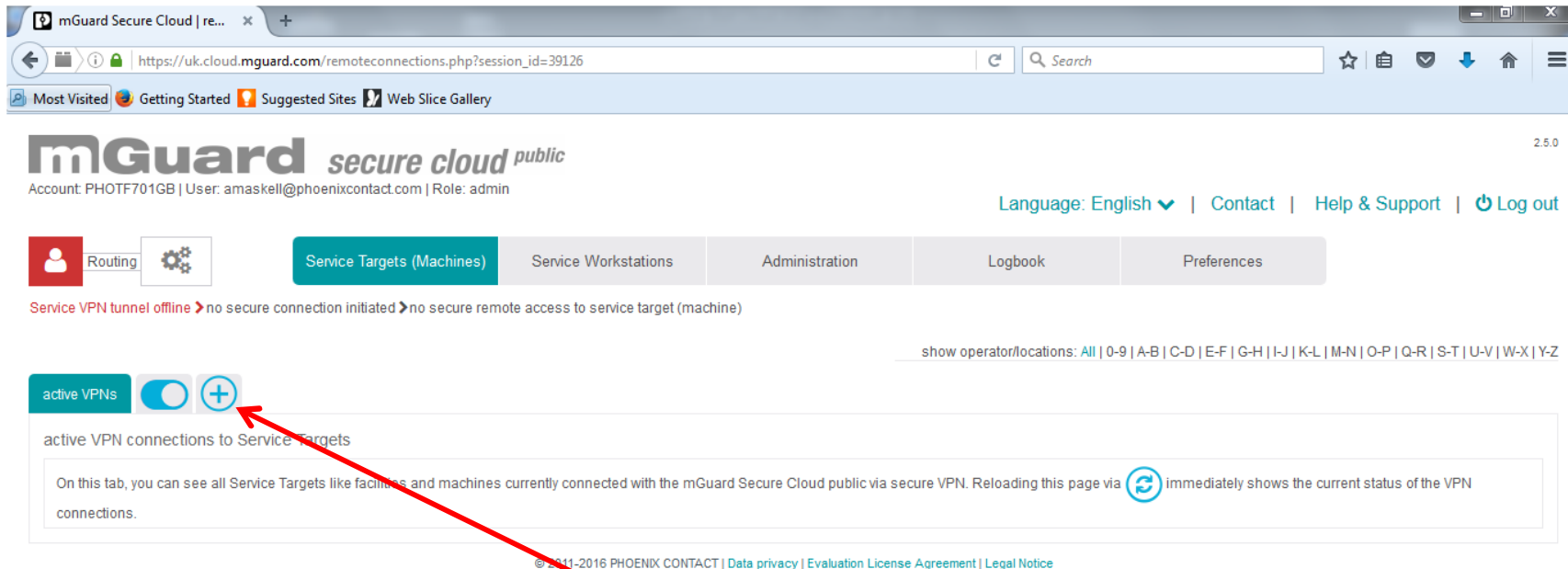
active VPN connections to Service Targets

On this tab, you can see all Service Targets, like facilities and machines currently connected with the mGuard Secure Cloud public via secure VPN. Reloading this page via  immediately shows the current status of the VPN connections.

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Click on the Service Target (MACHINES) tab and then the slider below

MGUARD SECURE CLOUD QUICK START GUIDE – Creating an operator profile (SERVICE TARGETS/MACHINES) (mGuard configuration)



mGuard secure cloud public 2.5.0

Account: PHOTF701GB | User: amaskell@phoenixcontact.com | Role: admin

Language: English | Contact | Help & Support | Log out


Routing Service Targets (Machines) Service Workstations Administration Logbook Preferences

Service VPN tunnel offline > no secure connection initiated > no secure remote access to service target (machine)

show operator/locations: All | 0-9 | A-B | C-D | E-F | G-H | I-J | K-L | M-N | O-P | Q-R | S-T | U-V | W-X | Y-Z

active VPNs

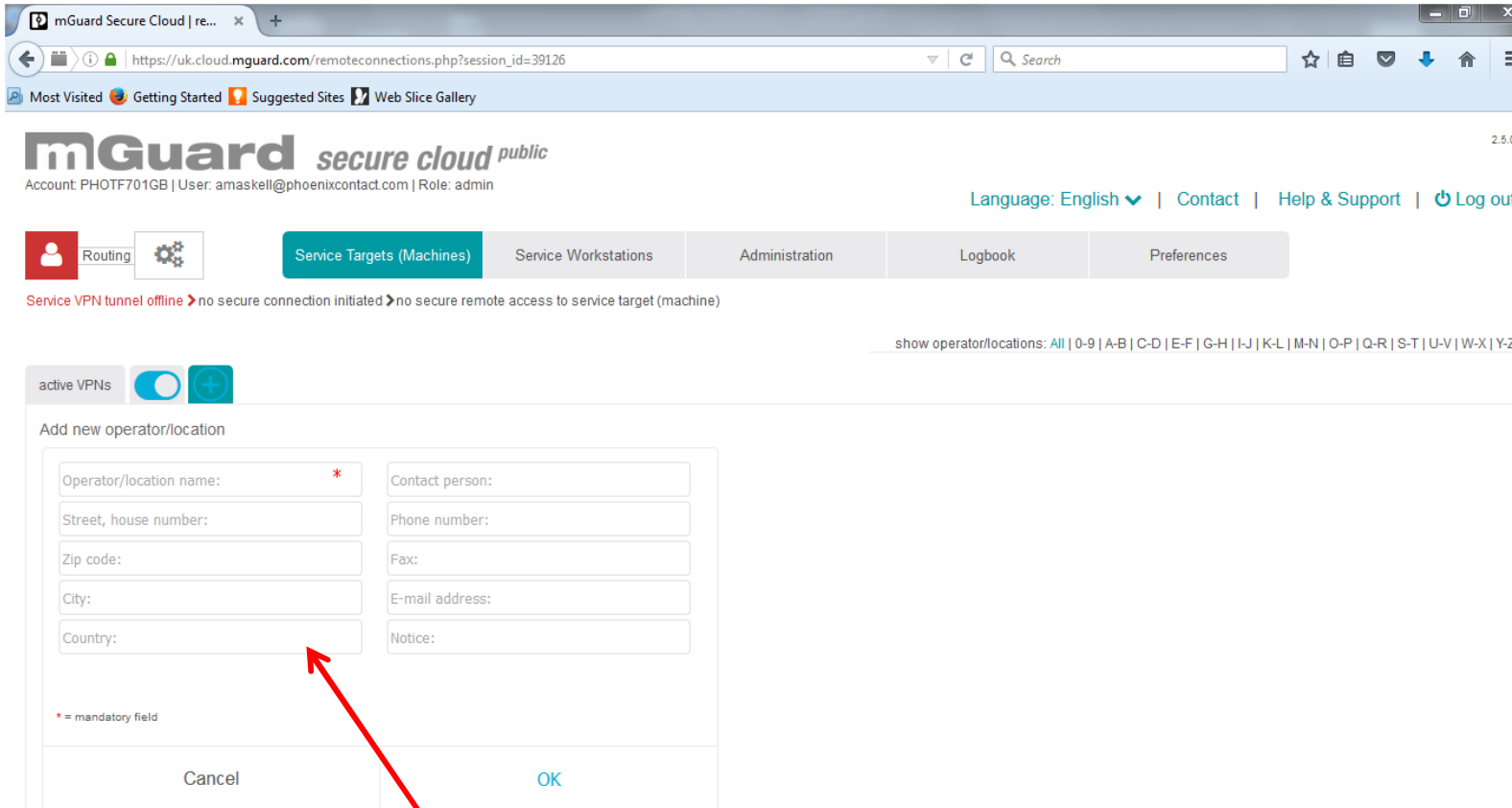
active VPN connections to Service Targets

On this tab, you can see all Service Targets like facilities and machines currently connected with the mGuard Secure Cloud public via secure VPN. Reloading this page via  immediately shows the current status of the VPN connections.

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Click on the add configuration icon

MGUARD SECURE CLOUD QUICK START GUIDE – Creating an operator profile (SERVICE TARGETS/MACHINES) (mGuard configuration)



mGuard Secure Cloud | re... x +

https://uk.cloud.mguard.com/remoteconnections.php?session_id=39126

Most Visited Getting Started Suggested Sites Web Slice Gallery

mGuard *secure cloud* public 2.5.0

Account: PHOTF701GB | User: amaskell@phoenixcontact.com | Role: admin

Language: English v | Contact | Help & Support | Log out

Routing Service Targets (Machines) Service Workstations Administration Logbook Preferences

Service VPN tunnel offline > no secure connection initiated > no secure remote access to service target (machine)

show operator/locations: All | 0-9 | A-B | C-D | E-F | G-H | I-J | K-L | M-N | O-P | Q-R | S-T | U-V | W-X | Y-Z

active VPNs

Add new operator/location

Operator/location name: * Contact person:

Street, house number: Phone number:

Zip code: Fax:

City: E-mail address:

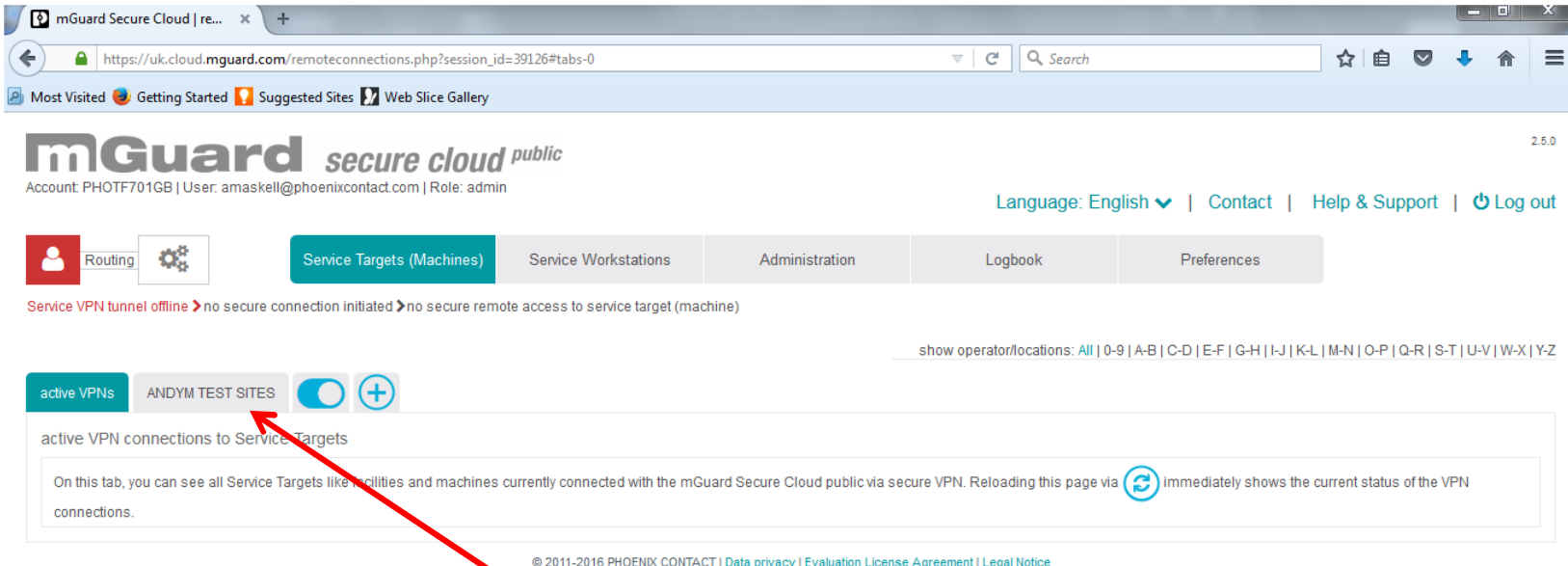
Country: Notice:

* = mandatory field

Cancel OK

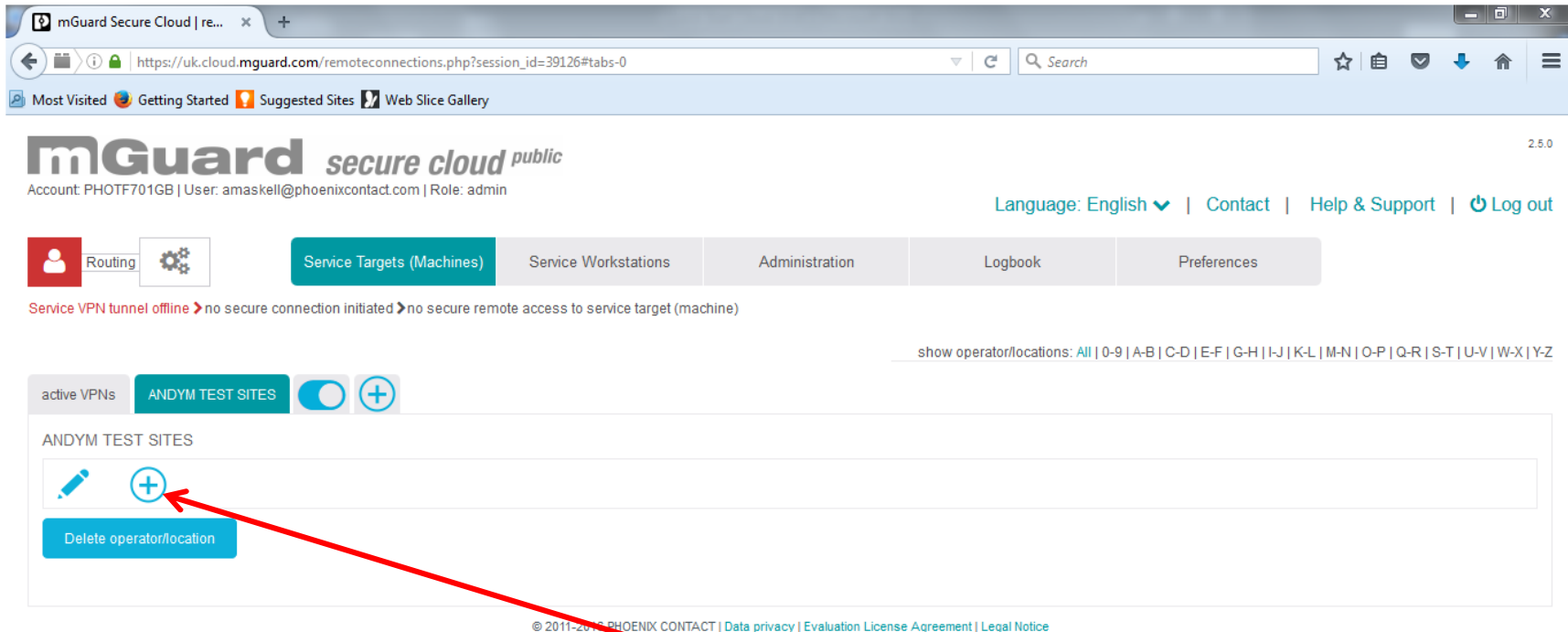
Fill in your OPERATOR details as required. This creates the user profile/location for machine connections

MGUARD SECURE CLOUD QUICK START GUIDE – Creating an operator profile (SERVICE TARGETS/MACHINES) (mGuard configuration)



Now the user profile has been created. Click on the tab and begin to create your machine connection.

MGUARD SECURE CLOUD QUICK START GUIDE – Adding a new machine (mGuard configuration)



The screenshot shows the mGuard Secure Cloud public interface. The browser address bar displays `https://uk.cloud.mguard.com/remoteconnections.php?session_id=39126#tabs-0`. The page header includes the mGuard logo, account information (PHOTF701GB | User: amaskell@phoenixcontact.com | Role: admin), and navigation links for Language, Contact, Help & Support, and Log out. The main navigation bar features tabs for Routing, Service Targets (Machines), Service Workstations, Administration, Logbook, and Preferences. A status message indicates the Service VPN tunnel is offline. Below this, a filter for 'show operator/locations' is visible. The 'active VPNs' section shows 'ANDYM TEST SITES' with a toggle switch and an add icon. A red arrow points to the add icon, which is a blue circle with a white plus sign. Below the add icon is a 'Delete operator/location' button.

Service VPN tunnel offline ➤ no secure connection initiated ➤ no secure remote access to service target (machine)

show operator/locations: All | 0-9 | A-B | C-D | E-F | G-H | I-J | K-L | M-N | O-P | Q-R | S-T | U-V | W-X | Y-Z

active VPNs ANDYM TEST SITES

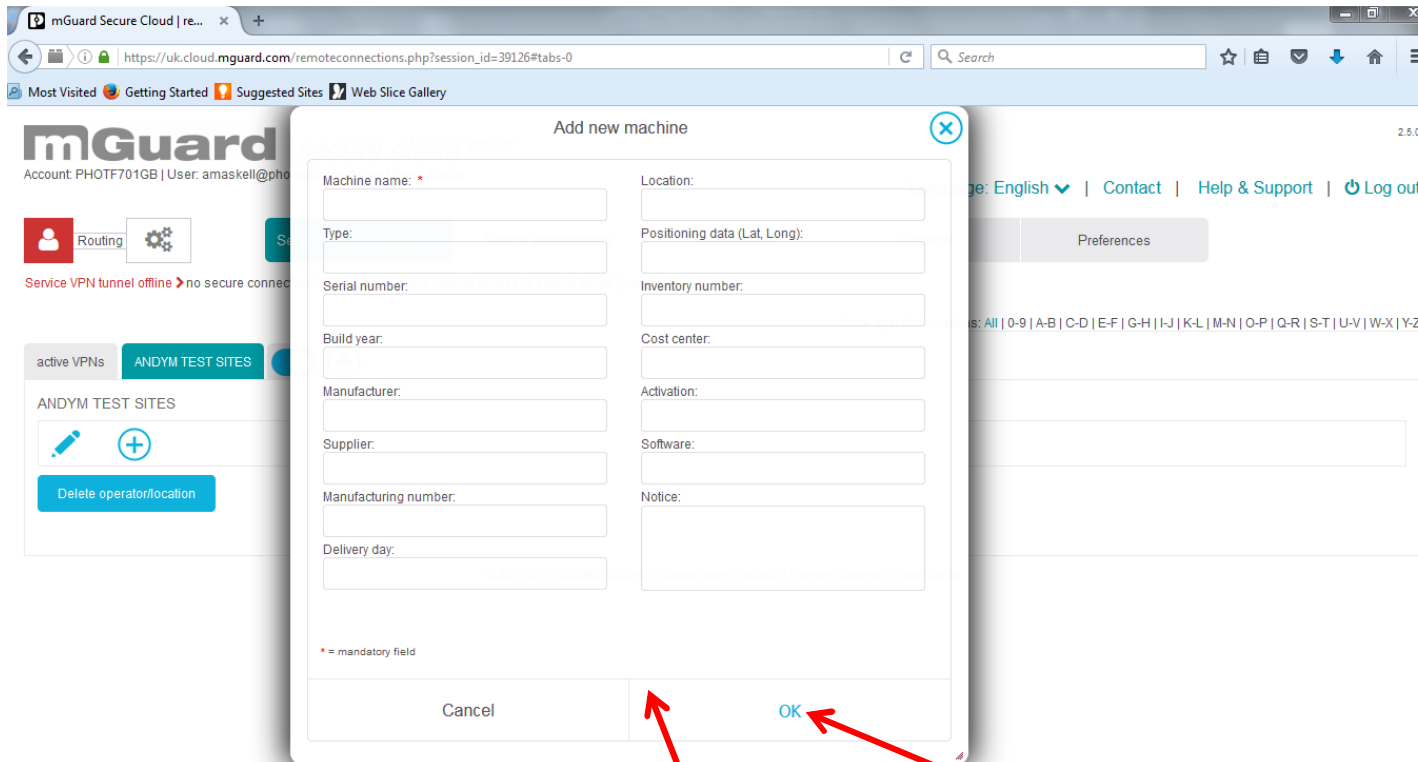
ANDYM TEST SITES

Delete operator/location

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Click on the add machine icon.

MGUARD SECURE CLOUD QUICK START GUIDE – Adding a new machine (mGuard configuration)



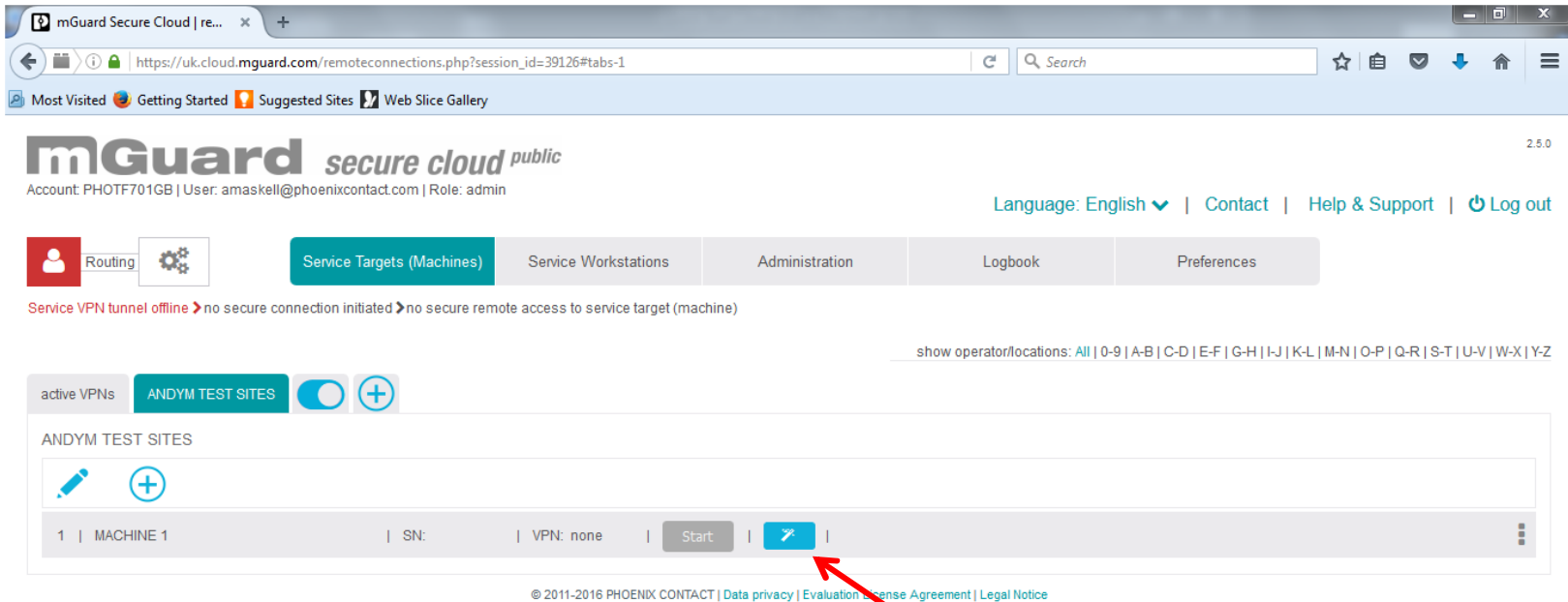
The screenshot shows the mGuard Secure Cloud web interface. A modal window titled "Add new machine" is open, displaying a form with the following fields:

- Machine name: *
- Location:
- Type:
- Positioning data (Lat, Long):
- Serial number:
- Inventory number:
- Build year:
- Cost center:
- Manufacturer:
- Activation:
- Supplier:
- Software:
- Manufacturing number:
- Notice:
- Delivery day:

At the bottom of the modal, there are "Cancel" and "OK" buttons. A red arrow points to the "OK" button. A legend at the bottom left of the modal indicates that "*" denotes a mandatory field.

Fill in your machine details as required and then click "OK"

MGUARD SECURE CLOUD QUICK START GUIDE – Adding a new machine (mGuard configuration)



The screenshot shows the mGuard Secure Cloud web interface. The browser address bar displays the URL: https://uk.cloud.mguard.com/remoteconnections.php?session_id=39126#tabs-1. The page header includes the mGuard logo, version 2.5.0, and user information: Account: PHOTF701GB | User: amaskell@phoenixcontact.com | Role: admin. The navigation menu includes: Routing, Service Targets (Machines), Service Workstations, Administration, Logbook, and Preferences. A status message indicates: Service VPN tunnel offline > no secure connection initiated > no secure remote access to service target (machine). The active VPNs section shows ANDYM TEST SITES with a toggle switch and a plus icon. Below this, a table lists the active VPNs:

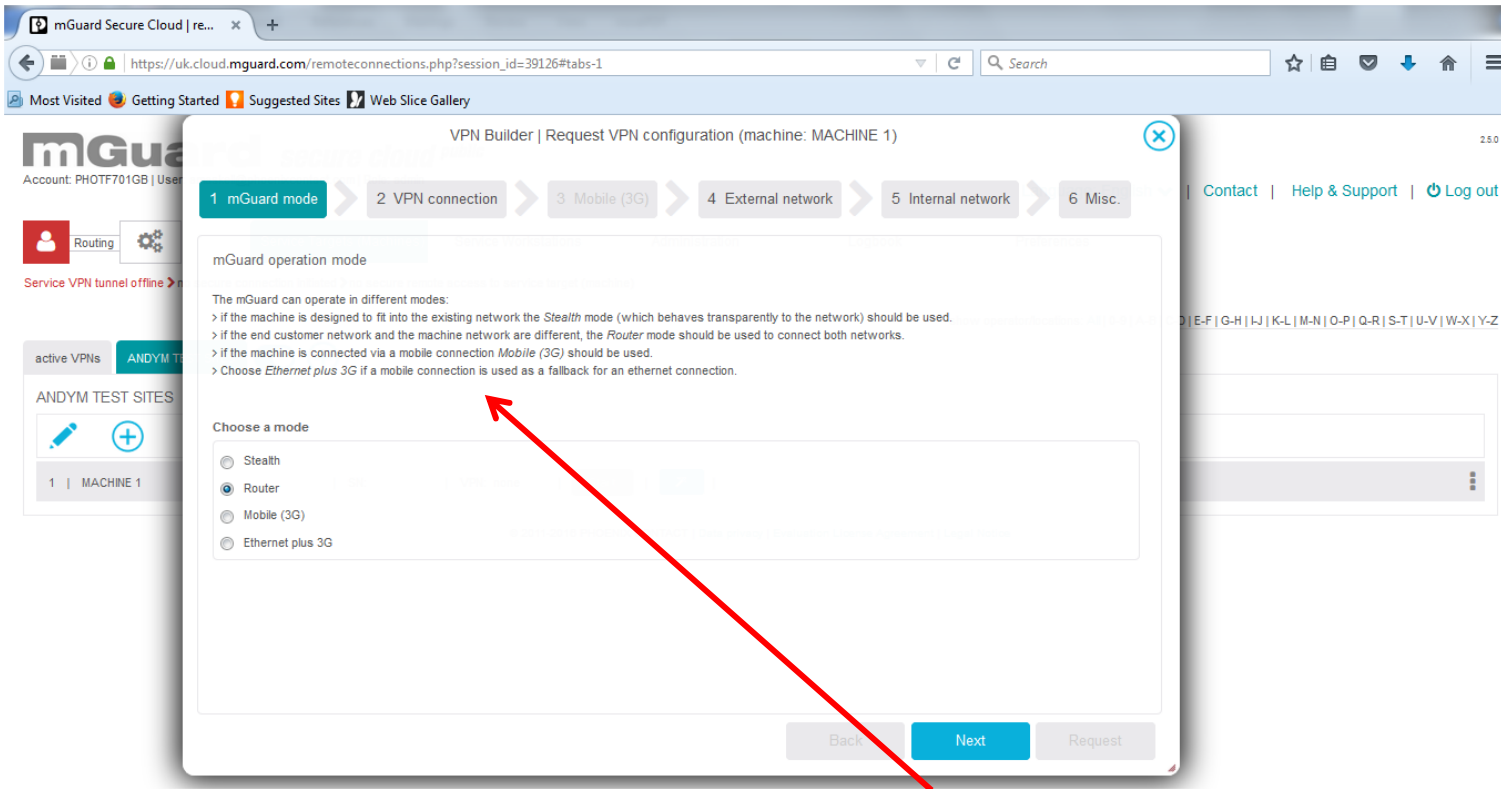
1	MACHINE 1	SN:	VPN: none	Start	Configuration Wizard Icon

A red arrow points to the configuration wizard icon (a blue square with a white 'X' and a plus sign) in the table row.

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Click on the configuration wizard icon

MGUARD SECURE CLOUD QUICK START GUIDE – Adding a new machine (mGuard configuration)



VPN Builder | Request VPN configuration (machine: MACHINE 1)

1 mGuard mode > 2 VPN connection > 3 Mobile (3G) > 4 External network > 5 Internal network > 6 Misc.

mGuard operation mode

The mGuard can operate in different modes:

- > if the machine is designed to fit into the existing network the *Stealth mode* (which behaves transparently to the network) should be used.
- > if the end customer network and the machine network are different, the *Router mode* should be used to connect both networks.
- > if the machine is connected via a mobile connection *Mobile (3G)* should be used.
- > Choose *Ethernet plus 3G* if a mobile connection is used as a fallback for an ethernet connection.

Choose a mode

☐ Stealth

☒ Router

☐ Mobile (3G)

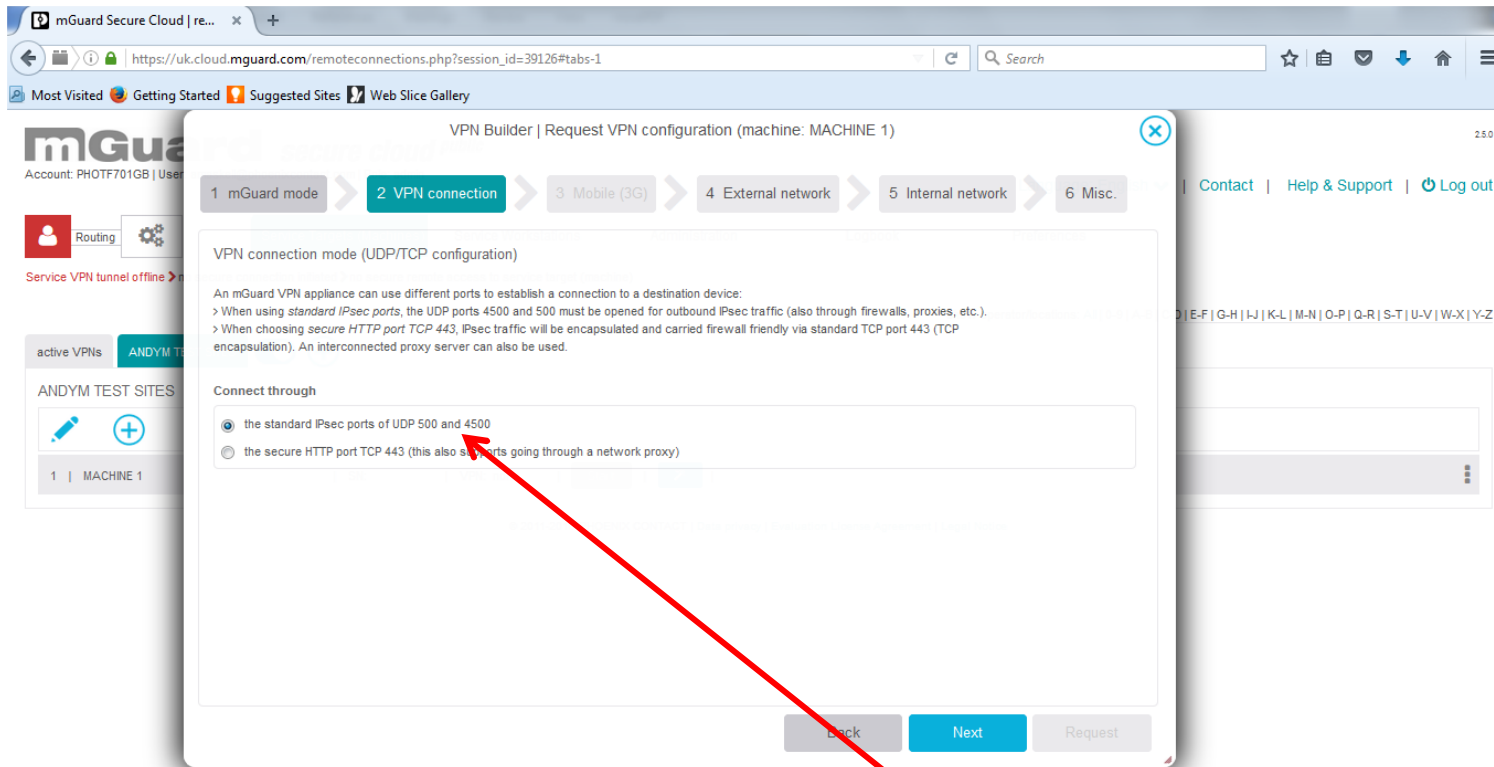
☐ Ethernet plus 3G

Back Next Request

Select the operation mode required. Each option is explained above the check boxes. For use in an existing network where the WAN/LAN will be on the same network use **STEALTH**. For LAN connections where an internet connection is available choose **ROUTER**. For the RS2000 3G use **MOBILE 3G** for RS4000 3G USE **Ethernet plus 3G**

In this example we are using the router mode assuming an internet connection is available on site.

MGUARD SECURE CLOUD QUICK START GUIDE – Adding a new machine (mGuard configuration)



VPN Builder | Request VPN configuration (machine: MACHINE 1)

1 mGuard mode > 2 VPN connection > 3 Mobile (3G) > 4 External network > 5 Internal network > 6 Misc.

VPN connection mode (UDP/TCP configuration)

An mGuard VPN appliance can use different ports to establish a connection to a destination device:

- > When using *standard IPsec ports*, the UDP ports 4500 and 500 must be opened for outbound IPsec traffic (also through firewalls, proxies, etc.).
- > When choosing *secure HTTP port TCP 443*, IPsec traffic will be encapsulated and carried firewall friendly via standard TCP port 443 (TCP encapsulation). An interconnected proxy server can also be used.

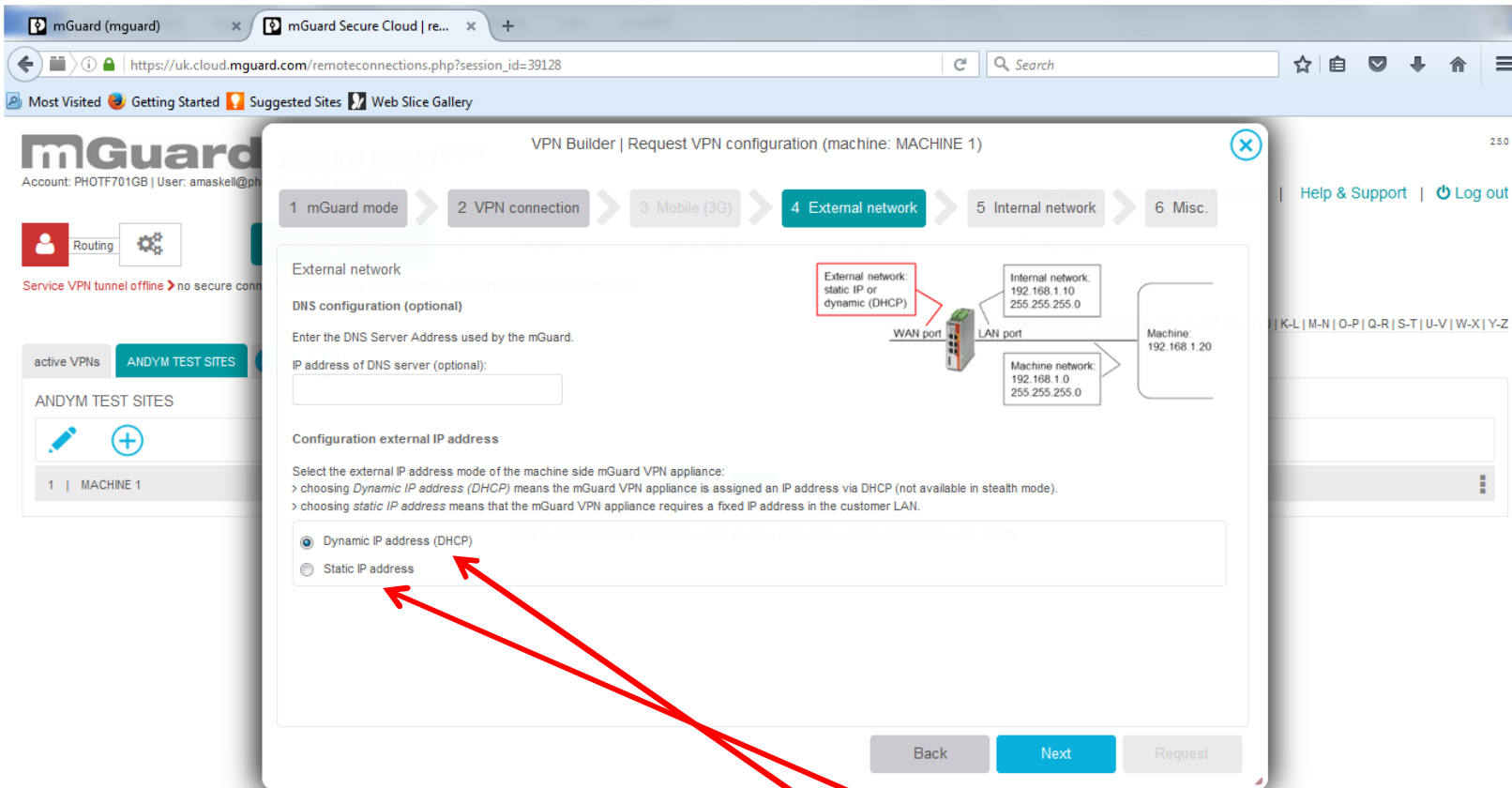
Connect through

- ☒ the standard IPsec ports of UDP 500 and 4500
- ☐ the secure HTTP port TCP 443 (this also supports ports going through a network proxy)

Back Next Request

For most installations the standard IPsec ports of UDP 500 AND 4500 should be selected

MGUARD SECURE CLOUD QUICK START GUIDE – Adding a new machine (mGuard configuration)



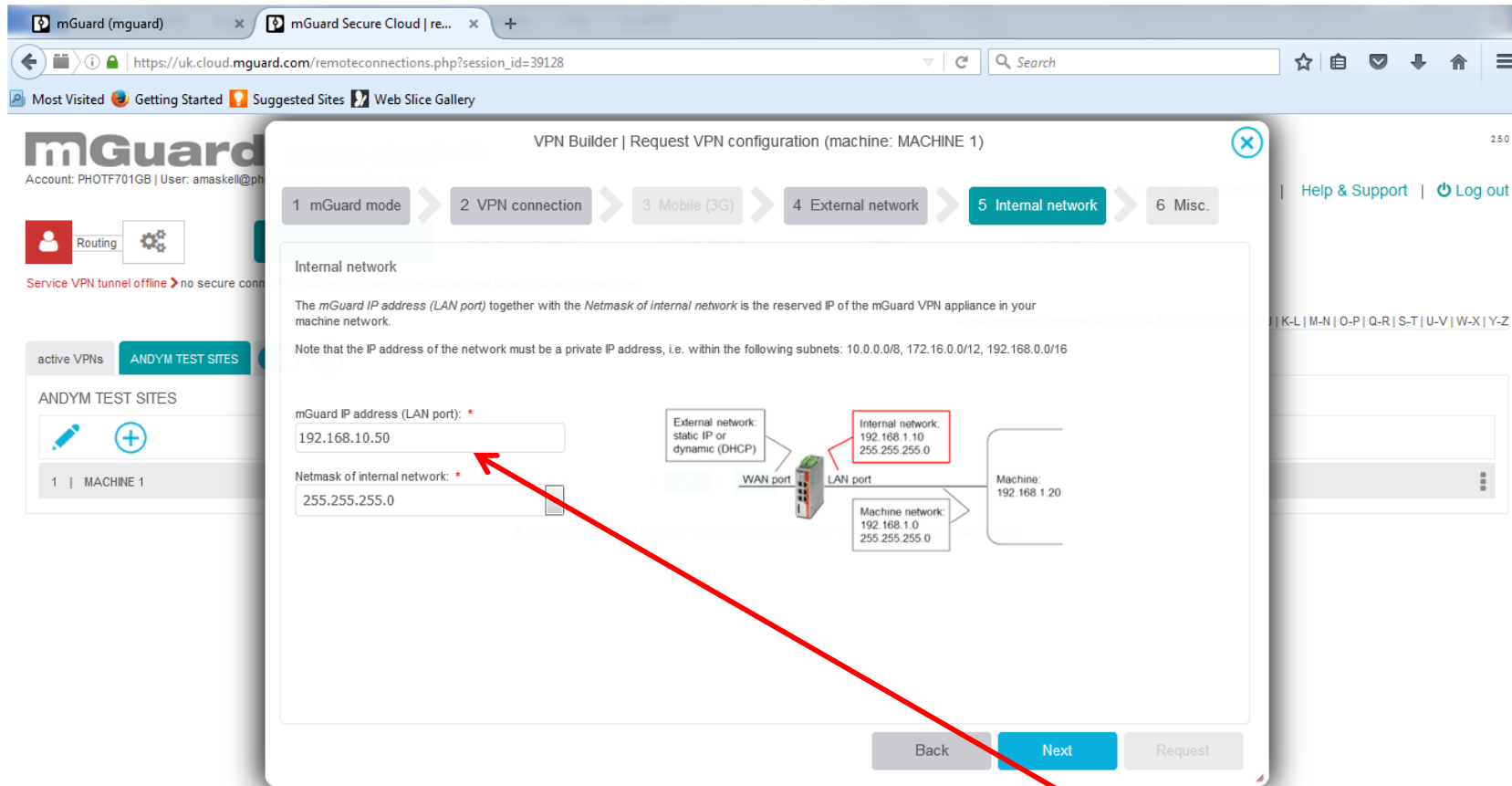
The screenshot shows the mGuard VPN Builder interface for 'Request VPN configuration (machine: MACHINE 1)'. The 'External network' step is active, showing a diagram of a router with WAN and LAN ports. The WAN port is labeled 'External network: static IP or dynamic (DHCP)'. The LAN port is labeled 'Internal network: 192.168.1.10 255.255.255.0'. A machine is connected to the LAN port, labeled 'Machine: 192.168.1.20' and 'Machine network: 192.168.1.0 255.255.255.0'.

Below the diagram, the 'DNS configuration (optional)' section asks for the 'IP address of DNS server (optional):'. The 'Configuration external IP address' section asks to 'Select the external IP address mode of the machine side mGuard VPN appliance:'. Two radio buttons are shown: 'Dynamic IP address (DHCP)' (selected) and 'Static IP address'.

Red arrows point from the 'Dynamic IP address (DHCP)' radio button to the 'Static IP address' radio button and from the 'Static IP address' radio button to the 'Next' button.

Provide the DNS server address, if known and select either DHCP or Static. DHCP is the most commonly used.

MGUARD SECURE CLOUD QUICK START GUIDE – Adding a new machine (mGuard configuration)



The screenshot shows the mGuard VPN Builder interface. The 'Internal network' step is selected in the progress bar. The 'mGuard IP address (LAN port)' field is highlighted with a red box and a red arrow pointing to it. The 'Netmask of internal network' field is also highlighted with a red box. The diagram shows the mGuard device connected to the machine network via the LAN port.

VPN Builder | Request VPN configuration (machine: MACHINE 1)

1 mGuard mode > 2 VPN connection > 3 Mobile (3G) > 4 External network > 5 Internal network > 6 Misc.

Internal network

The mGuard IP address (LAN port) together with the Netmask of internal network is the reserved IP of the mGuard VPN appliance in your machine network.

Note that the IP address of the network must be a private IP address, i.e. within the following subnets: 10.0.0.0/8, 172.16.0.0/12, 192.168.0.0/16

mGuard IP address (LAN port): 192.168.10.50

Netmask of internal network: 255.255.255.0

External network: static IP or dynamic (DHCP)

Internal network: 192.168.1.10 255.255.255.0

Machine network: 192.168.1.0 255.255.255.0

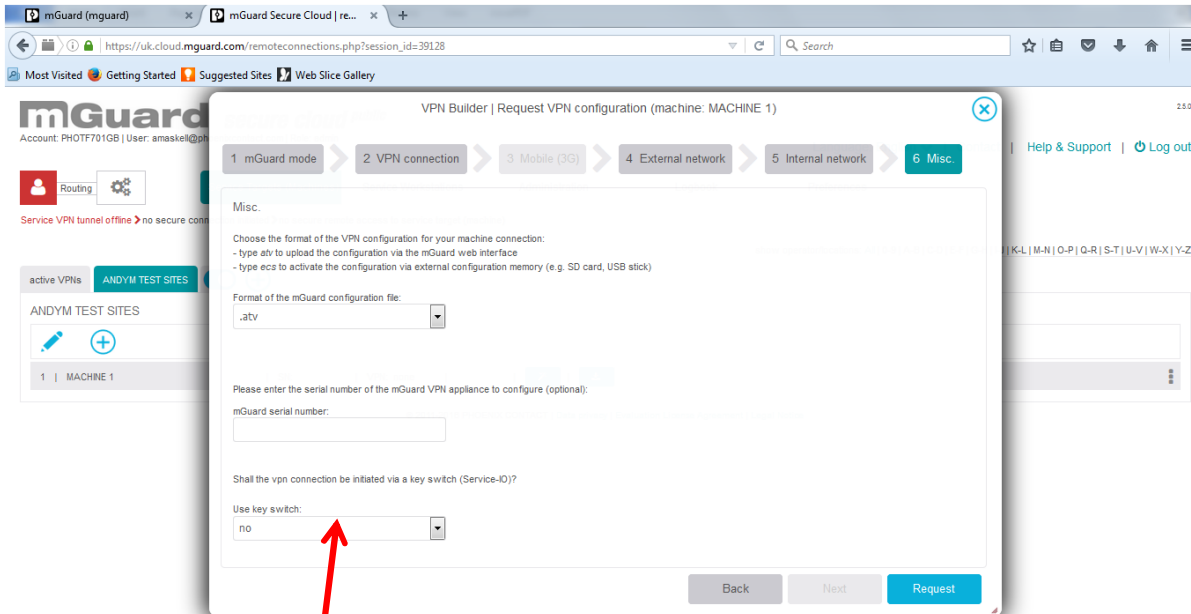
Machine: 192.168.1.20

WAN port LAN port

Back Next Request

Input the IP address of you mGuard LAN port that will connect to your machine network

MGUARD SECURE CLOUD QUICK START GUIDE – Adding a new machine (mGuard configuration)



VPN Builder | Request VPN configuration (machine: MACHINE 1)

1 mGuard mode > 2 VPN connection > 3 Mobile (3G) > 4 External network > 5 Internal network > 6 Misc

Misc.

Choose the format of the VPN configuration for your machine connection:
 - type atv to upload the configuration via the mGuard web interface
 - type ecs to activate the configuration via external configuration memory (e.g. SD card, USB stick)

Format of the mGuard configuration file:
 .atv

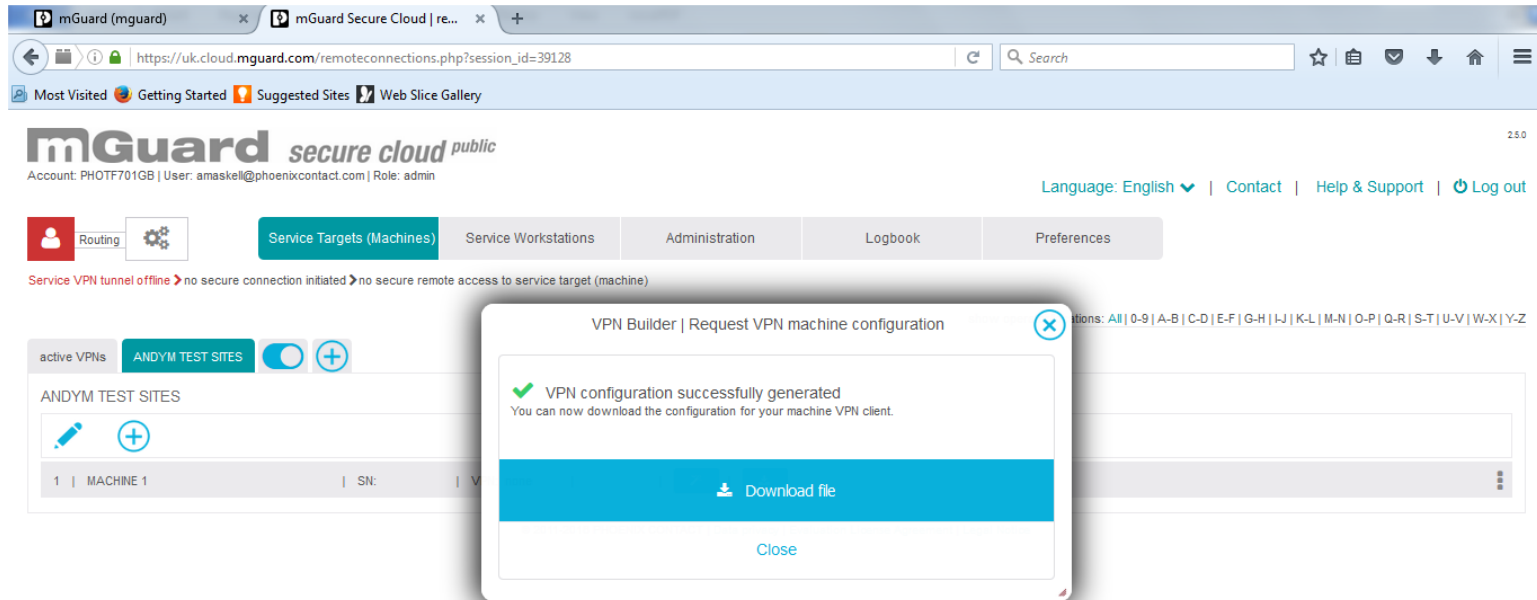
Please enter the serial number of the mGuard VPN appliance to configure (optional):
 mGuard serial number:

Shall the vpn connection be initiated via a key switch (Service-ID)?
 Use key switch:
 no

Back Next Request

If you are downloading the configuration to the mGuard using the web browser use the default file extension .atv. The .ecs option is for using the SD card option to download the configuration. We will use the web browser for this. You can also configure a digital input as a key switch or button to activate the VPN between machine and the cloud. example. Click request and the configuration will be available to download to your PC.

MGUARD SECURE CLOUD QUICK START GUIDE – Adding a new machine (mGuard configuration)



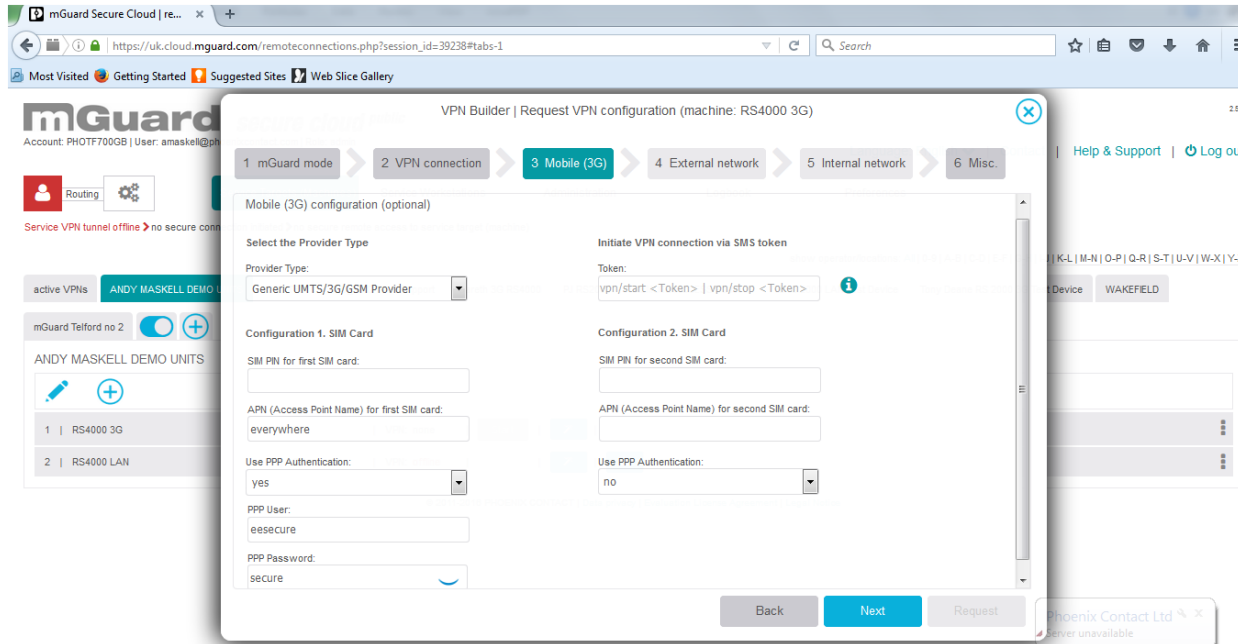
The screenshot shows the mGuard Secure Cloud web interface. The browser address bar displays `https://uk.cloud.mguard.com/remoteconnections.php?session_id=39128`. The page header includes the mGuard logo, account information (Account: PHOTF701GB | User: amaskell@phoenixcontact.com | Role: admin), and navigation links (Language: English, Contact, Help & Support, Log out). The main navigation bar has tabs for Routing, Service Targets (Machines), Service Workstations, Administration, Logbook, and Preferences. A status message indicates "Service VPN tunnel offline" with a red arrow and text: "no secure connection initiated" and "no secure remote access to service target (machine)".

A modal window titled "VPN Builder | Request VPN machine configuration" is displayed in the foreground. It contains a green checkmark icon and the text: "VPN configuration successfully generated. You can now download the configuration for your machine VPN client." Below this text is a blue button labeled "Download file" and a "Close" link at the bottom.

In the background, the "active VPNs" section is visible, showing a table with one entry: "1 | MACHINE 1". The table has columns for "SN:" and "V:". The "ANDYM TEST SITES" tab is selected, and there are icons for editing and adding new sites.

Download the file and save somewhere you can find it!

CONFIGURING 3G DEVICES (OPTION)



The screenshot shows the 'VPN Builder | Request VPN configuration (machine: RS4000 3G)' window. The 'Mobile (3G)' tab is selected, showing optional configuration fields for two SIM cards. The 'Provider Type' is set to 'Generic UMTS/3G/GSM Provider'. The 'Token' field contains 'vpn/start <Token> | vpn/stop <Token>'. The 'Configuration 1. SIM Card' section includes fields for SIM PIN, APN (set to 'everywhere'), PPP Authentication (set to 'yes'), PPP User (set to 'eeseecure'), and PPP Password (set to 'secure'). The 'Configuration 2. SIM Card' section includes fields for SIM PIN, APN, PPP Authentication (set to 'no'), PPP User, and PPP Password.

If you have a 3G device and select this then the above optional configuration will be shown after page 30.

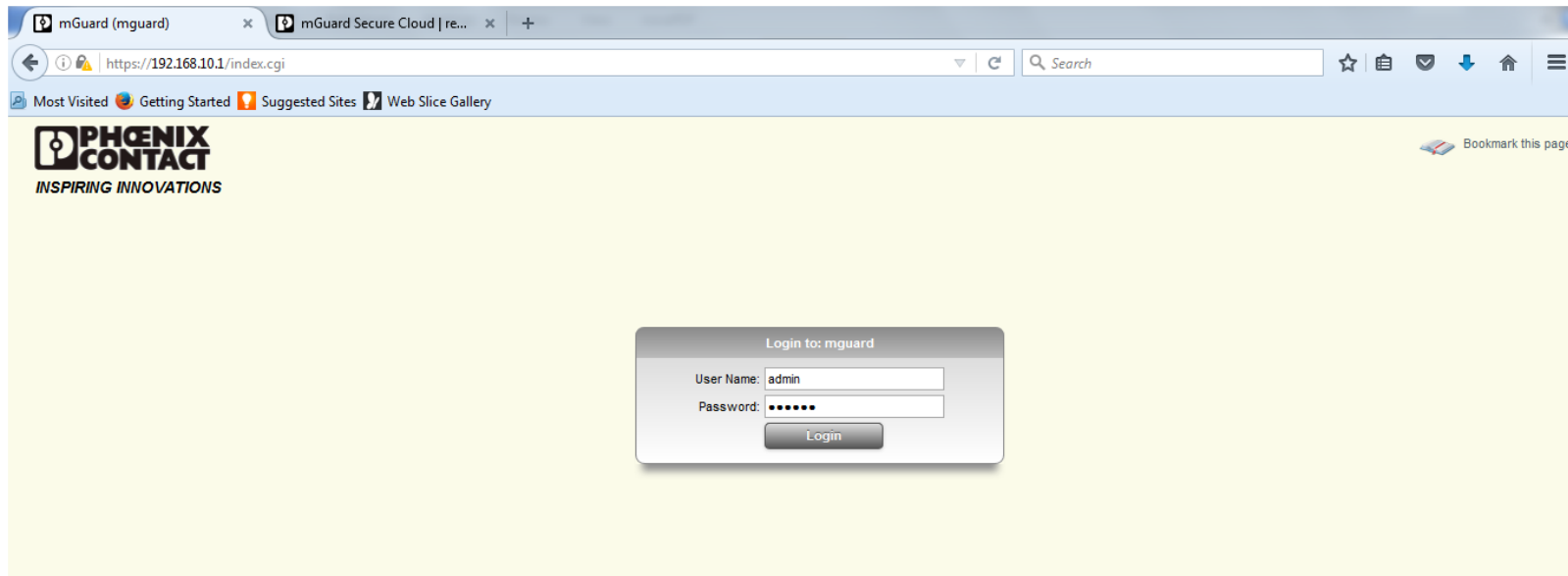
You will need to know the APN (Access Point Name) of the mobile provider you have chosen.

You can ask your provider or look on the web for this. The example shows the APN and USER/PASSWORD for EE.

THIS CAN BE FILLED IN MANUALLY ON THE MGUARD LATER

Carry on from this point through to DOWNLOAD ON PAGE 34

MGUARD SECURE CLOUD QUICK START GUIDE – Uploading the configuration (mGuard configuration)



To log on to your mGuard router, use the default IP address of [HTTPS://192.168.1.1](https://192.168.1.1)

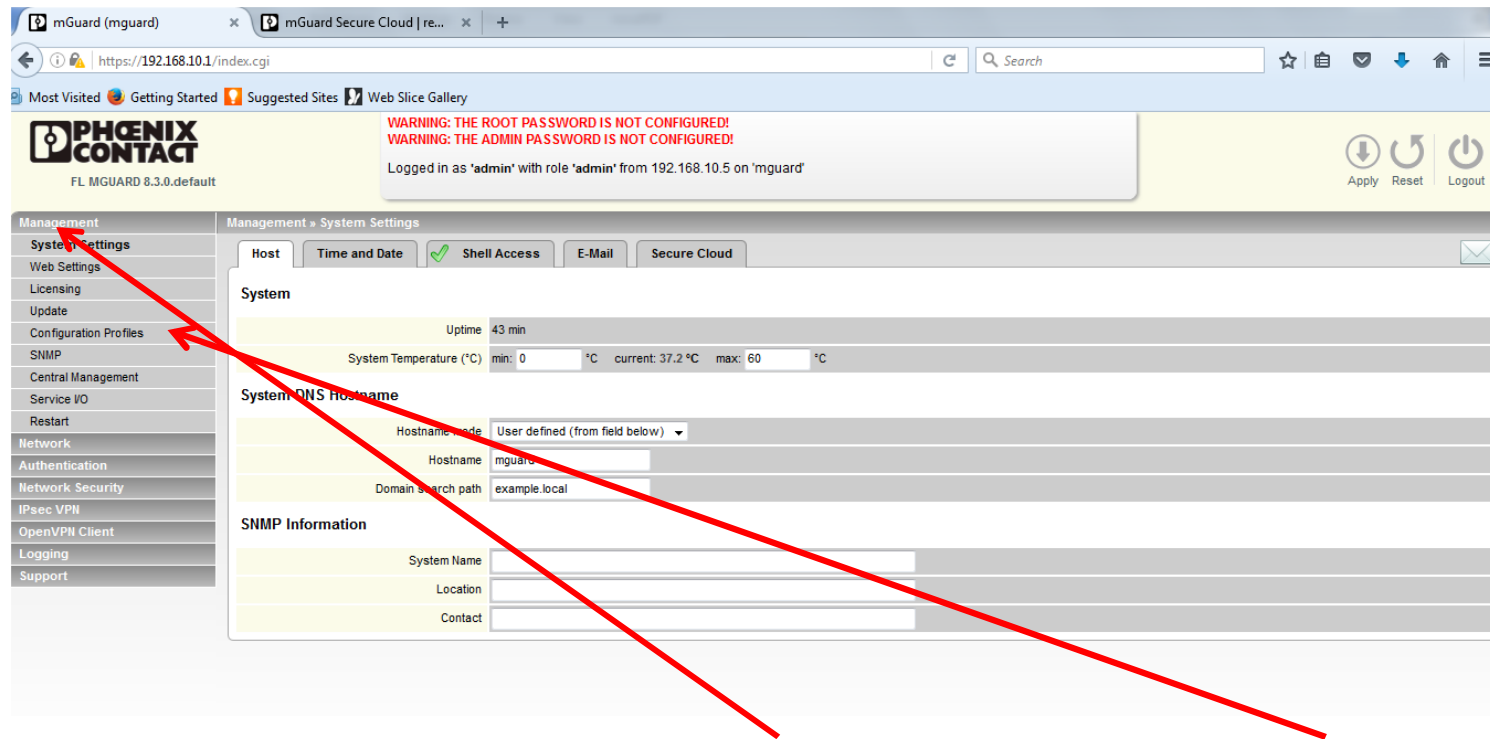
Use the default user and password:

USER NAME: admin

PASSWORD: mGuard

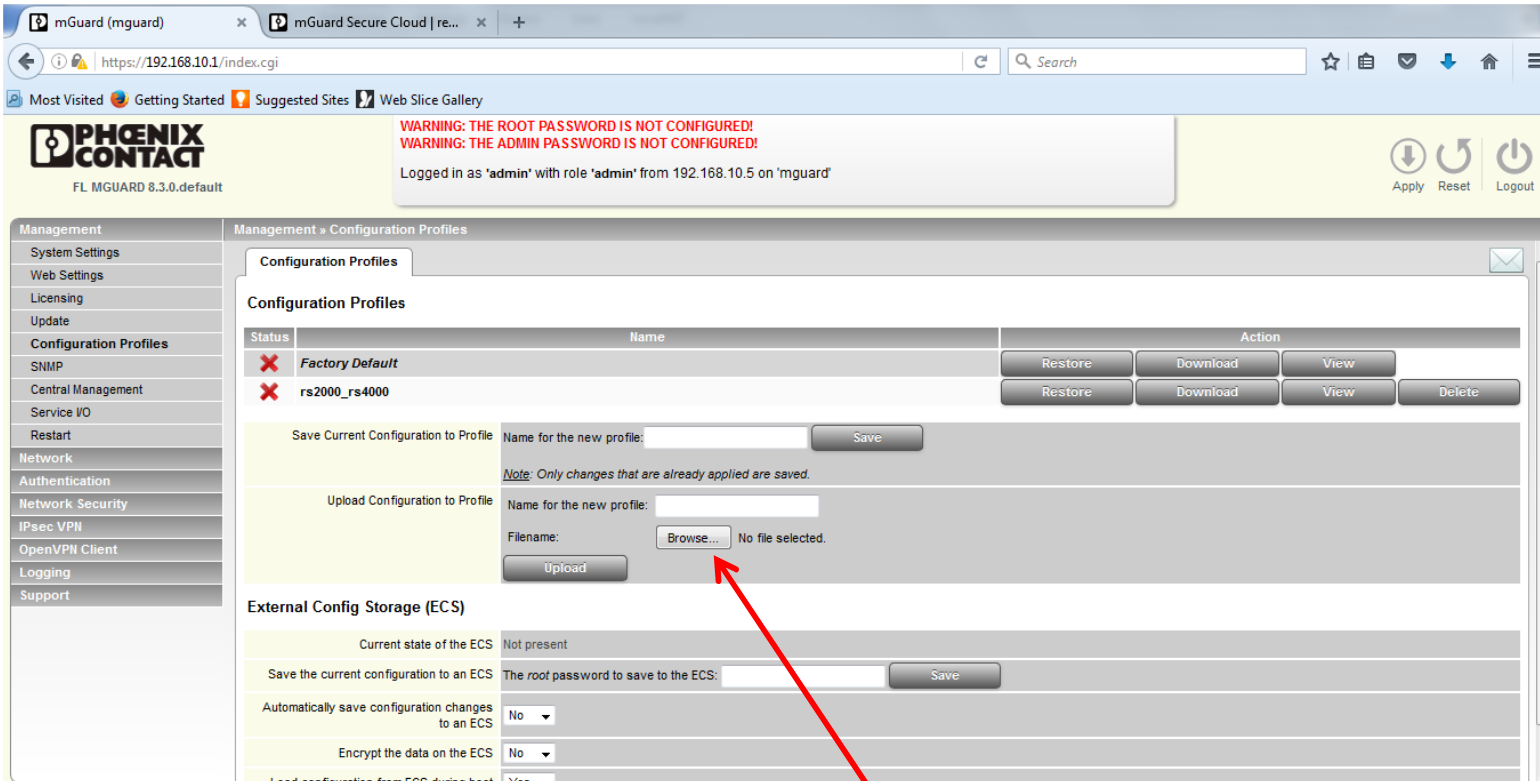
***WE ADVISE YOU CHANGE YOUR USERNAME AND PASSWORD BEFORE CONNECTING TO THE INTERNET**

MGUARD SECURE CLOUD QUICK START GUIDE – Uploading the configuration (mGuard configuration)



Once logged in to the mGuard select the top tab “MANAGEMENT” and then “CONFIGURATION PROFILES”

MGUARD SECURE CLOUD QUICK START GUIDE - Uploading the configuration (mGuard configuration)



The screenshot shows the mGuard Secure Cloud web interface. The browser address bar displays `https://192.168.10.1/index.cgi`. The page header includes the PHOENIX CONTACT logo, the version `FL MGUARD 8.3.0.default`, and a warning message: **WARNING: THE ROOT PASSWORD IS NOT CONFIGURED! WARNING: THE ADMIN PASSWORD IS NOT CONFIGURED!**. The user is logged in as 'admin' with role 'admin' from 192.168.10.5 on 'mguard'.

The left sidebar contains a navigation menu with the following items: Management, System Settings, Web Settings, Licensing, Update, Configuration Profiles, SNMP, Central Management, Service I/O, Restart, Network, Authentication, Network Security, IPsec VPN, OpenVPN Client, Logging, and Support.

The main content area is titled **Configuration Profiles**. It contains a table with the following data:

Status	Name	Action
✗	Factory Default	Restore Download View
✗	rs2000_rs4000	Restore Download View Delete

Below the table, there are two sections:

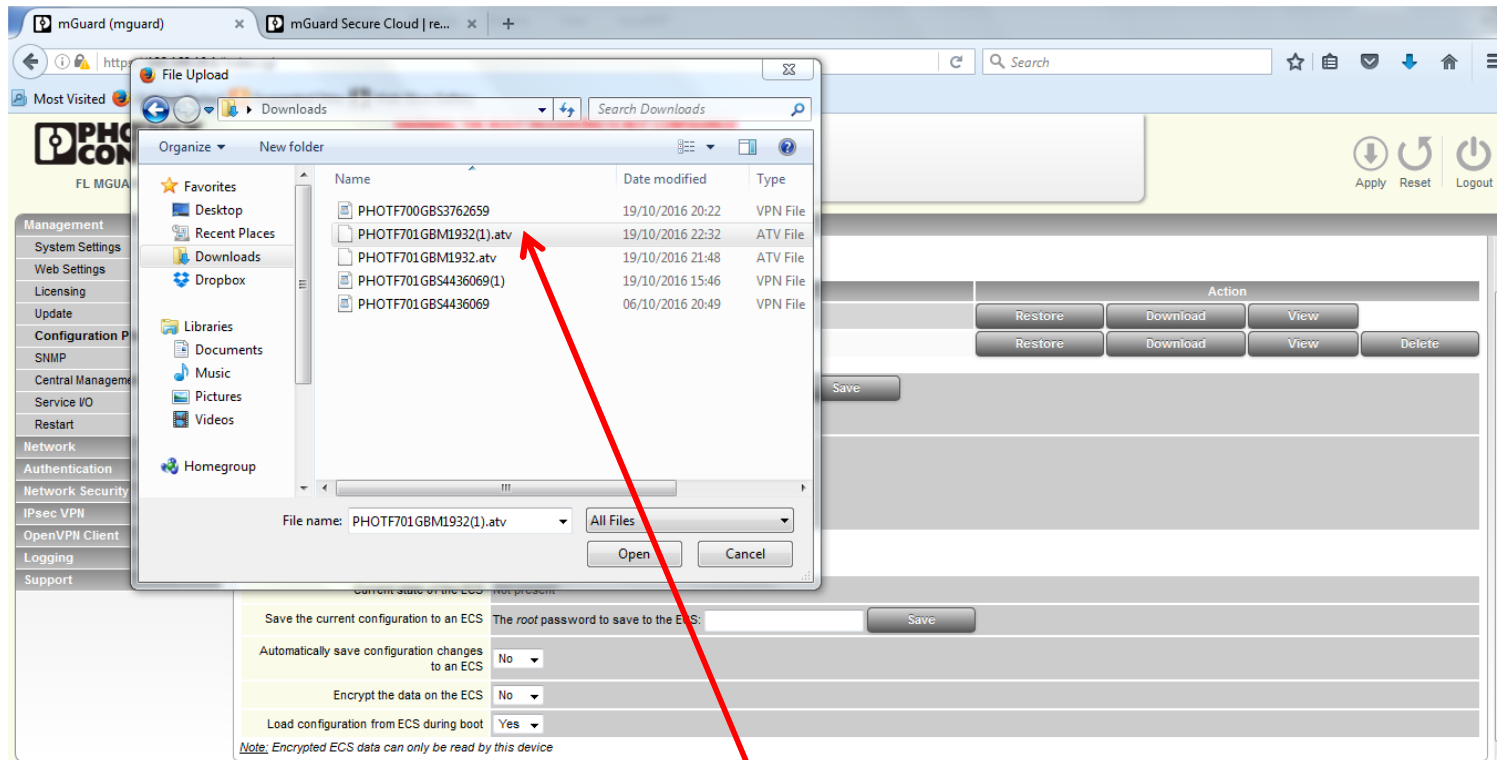
- Save Current Configuration to Profile:** Includes a text input for 'Name for the new profile:' and a 'Save' button.
- Upload Configuration to Profile:** Includes a text input for 'Name for the new profile:', a 'Filename:' label, a 'Browse...' button (highlighted by a red arrow), and an 'Upload' button. The text 'No file selected.' is displayed next to the 'Browse...' button.

At the bottom, there is an **External Config Storage (ECS)** section with the following options:

- Current state of the ECS: Not present
- Save the current configuration to an ECS: Includes a text input for 'The root password to save to the ECS:' and a 'Save' button.
- Automatically save configuration changes to an ECS: Set to 'No'.
- Encrypt the data on the ECS: Set to 'No'.
- Load configuration from ECS during boot: Set to 'Yes'.

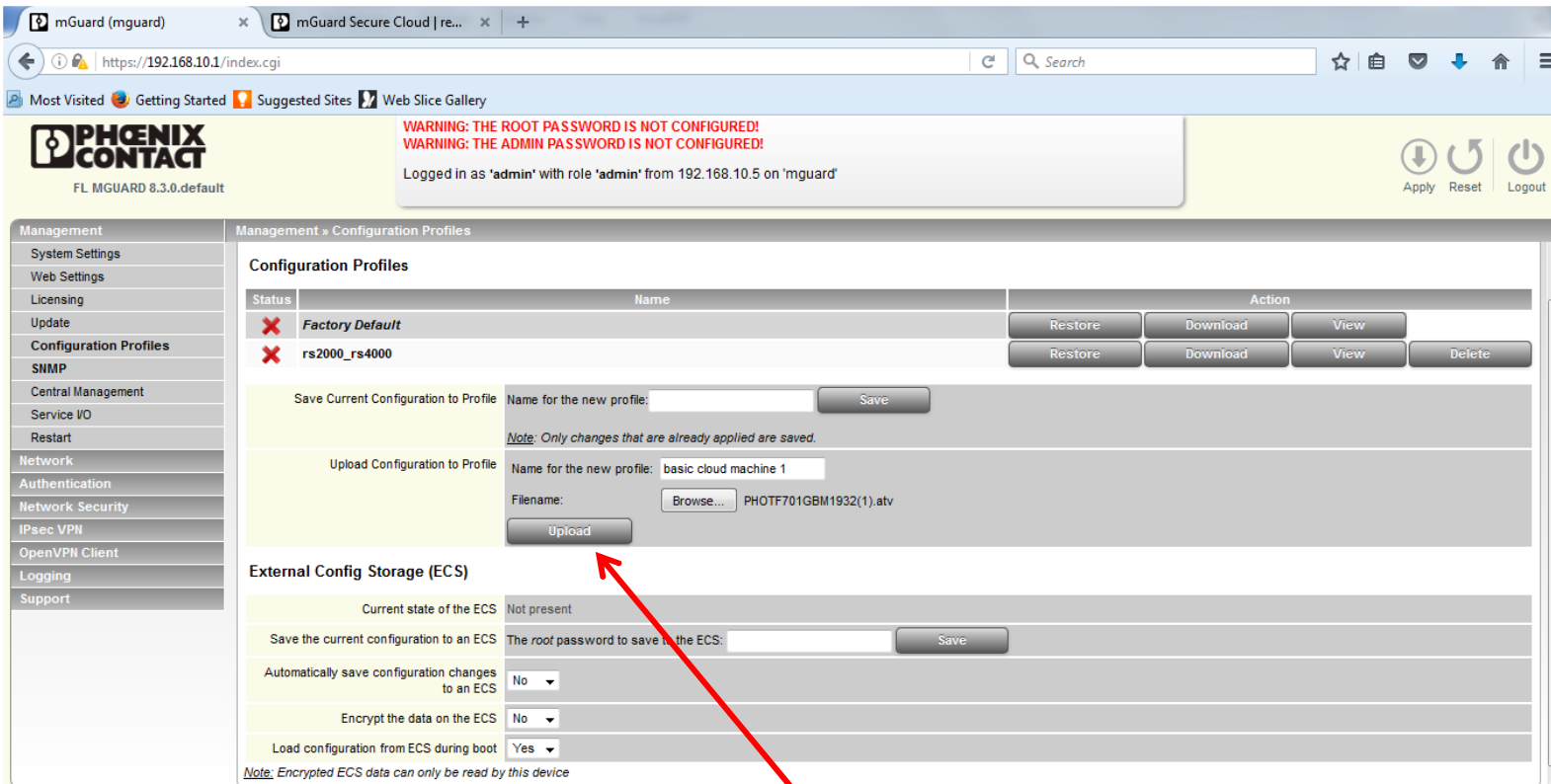
Create a name for you configuration and click browse to find you downloaded file.

MGUARD SECURE CLOUD QUICK START GUIDE – Uploading the configuration (mGuard configuration)



Select the appropriate file

MGUARD SECURE CLOUD QUICK START GUIDE – Uploading the configuration (mGuard configuration)



The screenshot shows the mGuard Secure Cloud web interface. The browser address bar displays `https://192.168.10.1/index.cgi`. The page header includes the PHOENIX CONTACT logo, the version `FL MGUARD 8.3.0.default`, and a warning message: **WARNING: THE ROOT PASSWORD IS NOT CONFIGURED! WARNING: THE ADMIN PASSWORD IS NOT CONFIGURED!**. The user is logged in as 'admin' with role 'admin' from 192.168.10.5 on 'mguard'.

The left sidebar contains a navigation menu with the following items: Management, System Settings, Web Settings, Licensing, Update, Configuration Profiles, SNMP, Central Management, Service I/O, Restart, Network, Authentication, Network Security, IPsec VPN, OpenVPN Client, Logging, and Support.

The main content area is titled **Configuration Profiles**. It contains a table with the following data:

Status	Name	Action
✗	Factory Default	Restore Download View
✗	rs2000_rs4000	Restore Download View Delete

Below the table, there are two sections:

- Save Current Configuration to Profile**: Includes a text input for "Name for the new profile:" and a "Save" button. A note below states: "Note: Only changes that are already applied are saved."
- Upload Configuration to Profile**: Includes a text input for "Name for the new profile:" (containing "basic cloud machine 1"), a "Filename:" label, a "Browse..." button, and a text input containing "PHOTF701GBM1932(1).atv". An "Upload" button is located below these fields. A red arrow points to this button.

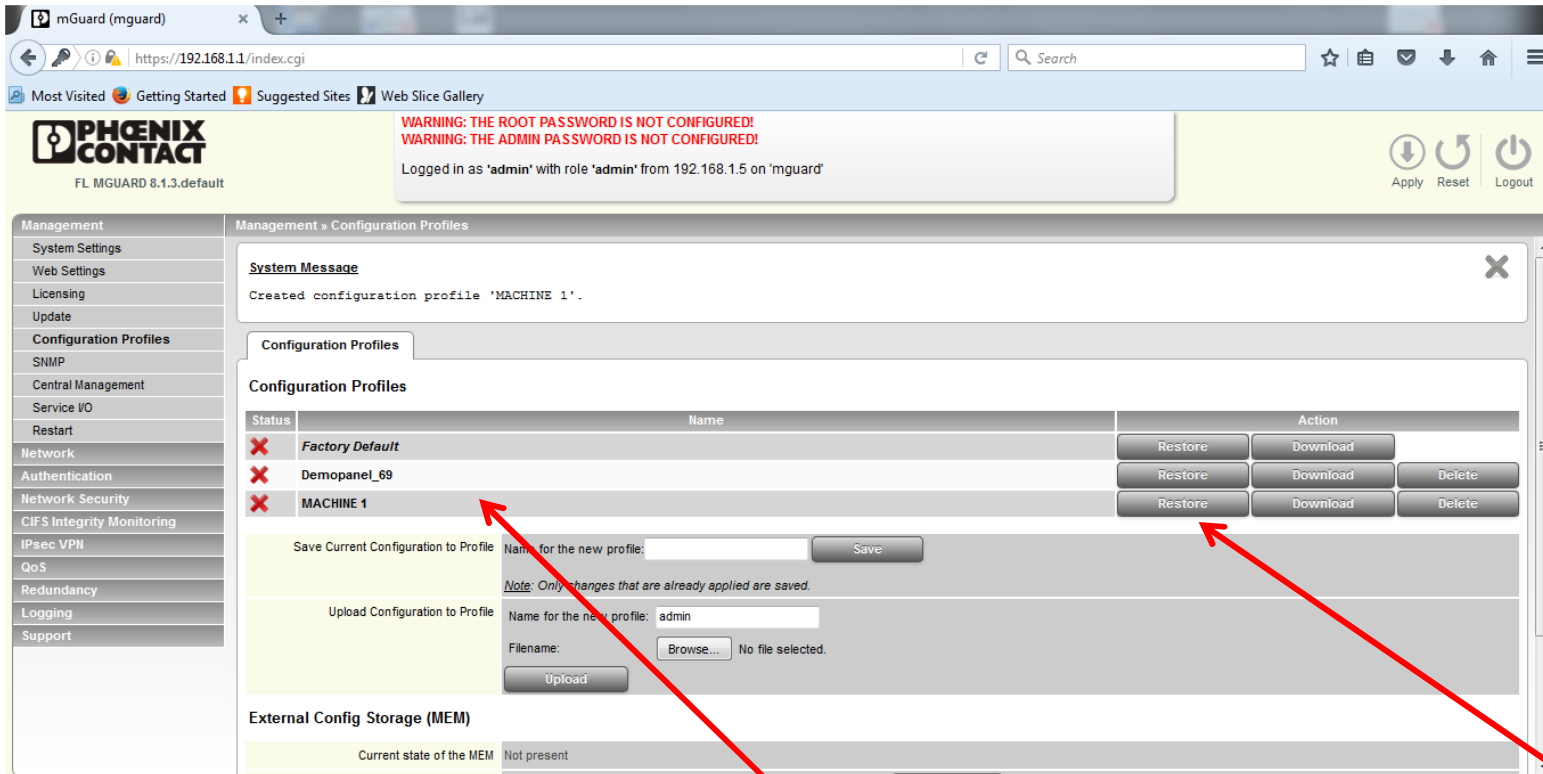
Below these sections is the **External Config Storage (ECS)** section, which includes:

- Current state of the ECS**: A dropdown menu set to "Not present".
- Save the current configuration to an ECS**: A text input for "The root password to save to the ECS:" and a "Save" button.
- Automatically save configuration changes to an ECS**: A dropdown menu set to "No".
- Encrypt the data on the ECS**: A dropdown menu set to "No".
- Load configuration from ECS during boot**: A dropdown menu set to "Yes".

A note at the bottom of the ECS section states: "Note: Encrypted ECS data can only be read by this device".

Click upload.

MGUARD SECURE CLOUD QUICK START GUIDE – Uploading the configuration (mGuard configuration)



The screenshot shows the mGuard web interface. The top navigation bar includes the Phoenix Contact logo, version 'FL MGUARD 8.1.3.default', and a warning message: 'WARNING: THE ROOT PASSWORD IS NOT CONFIGURED! WARNING: THE ADMIN PASSWORD IS NOT CONFIGURED!'. The user is logged in as 'admin' with role 'admin' from 192.168.1.5 on 'mguard'. The left sidebar lists various management options, with 'Configuration Profiles' selected. The main content area shows a 'System Message' box stating 'Created configuration profile 'MACHINE 1''. Below this is a table of 'Configuration Profiles'.

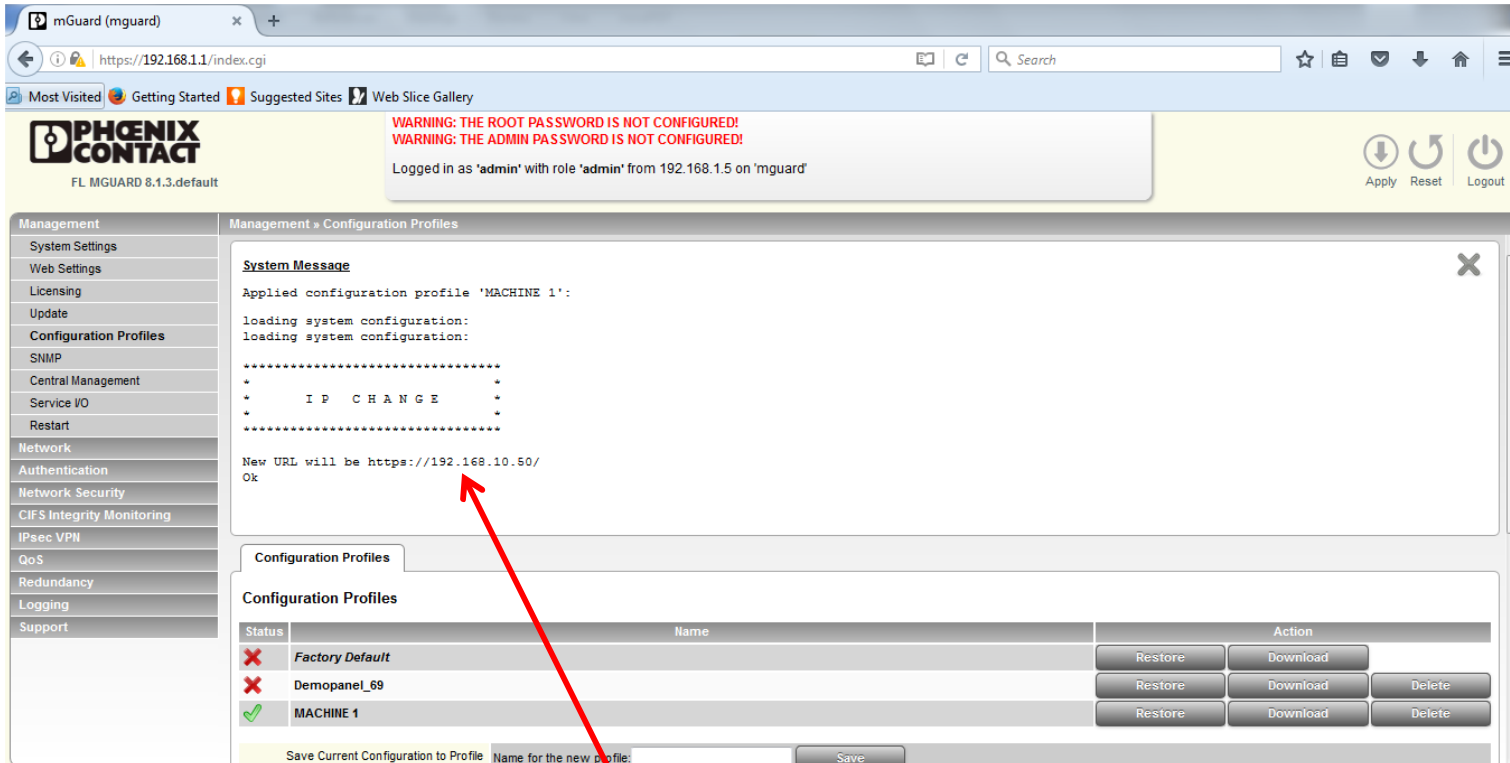
Status	Name	Action
✗	Factory Default	Restore Download
✗	Demopanel_69	Restore Download Delete
✗	MACHINE 1	Restore Download Delete

Below the table, there are sections for 'Save Current Configuration to Profile' and 'Upload Configuration to Profile'. The 'Upload Configuration to Profile' section shows a form with 'Name for the new profile: admin' and 'Filename: No file selected.'.

At the bottom, there is a section for 'External Config Storage (MEM)' showing 'Current state of the MEM: Not present'.

Your machine configuration has now been uploaded to the mGuard. Now to activate the profile click on “Restore”

MGUARD SECURE CLOUD QUICK START GUIDE – Uploading the configuration (mGuard configuration)



The screenshot shows the mGuard web interface in a browser. The address bar displays `https://192.168.1.1/index.cgi`. The page header includes the PHOENIX CONTACT logo, the version `FL MGUARD 8.1.3.default`, and a warning message: **WARNING: THE ROOT PASSWORD IS NOT CONFIGURED! WARNING: THE ADMIN PASSWORD IS NOT CONFIGURED!**. Below the warning, it states: `Logged in as 'admin' with role 'admin' from 192.168.1.5 on 'mguard'`. On the right, there are buttons for `Apply`, `Reset`, and `Logout`.

The left sidebar contains a menu with the following items: `Management`, `System Settings`, `Web Settings`, `Licensing`, `Update`, `Configuration Profiles`, `SNMP`, `Central Management`, `Service I/O`, `Restart`, `Network`, `Authentication`, `Network Security`, `CIFS Integrity Monitoring`, `IPsec VPN`, `QoS`, `Redundancy`, `Logging`, and `Support`.

The main content area is titled `Management » Configuration Profiles`. It features a `System Message` box with the following text:


```

    Applied configuration profile 'MACHINE 1':
    loading system configuration:
    loading system configuration:
    .....
    *   I P   C H A N G E   *
    .....
    New URL will be https://192.168.10.50/
    Ok
    
```

 A red arrow points from the text "You will be notified of any IP address change for the LN port and configuration." to the `I P C H A N G E` message.

Below the message box is the `Configuration Profiles` section, which contains a table with the following data:

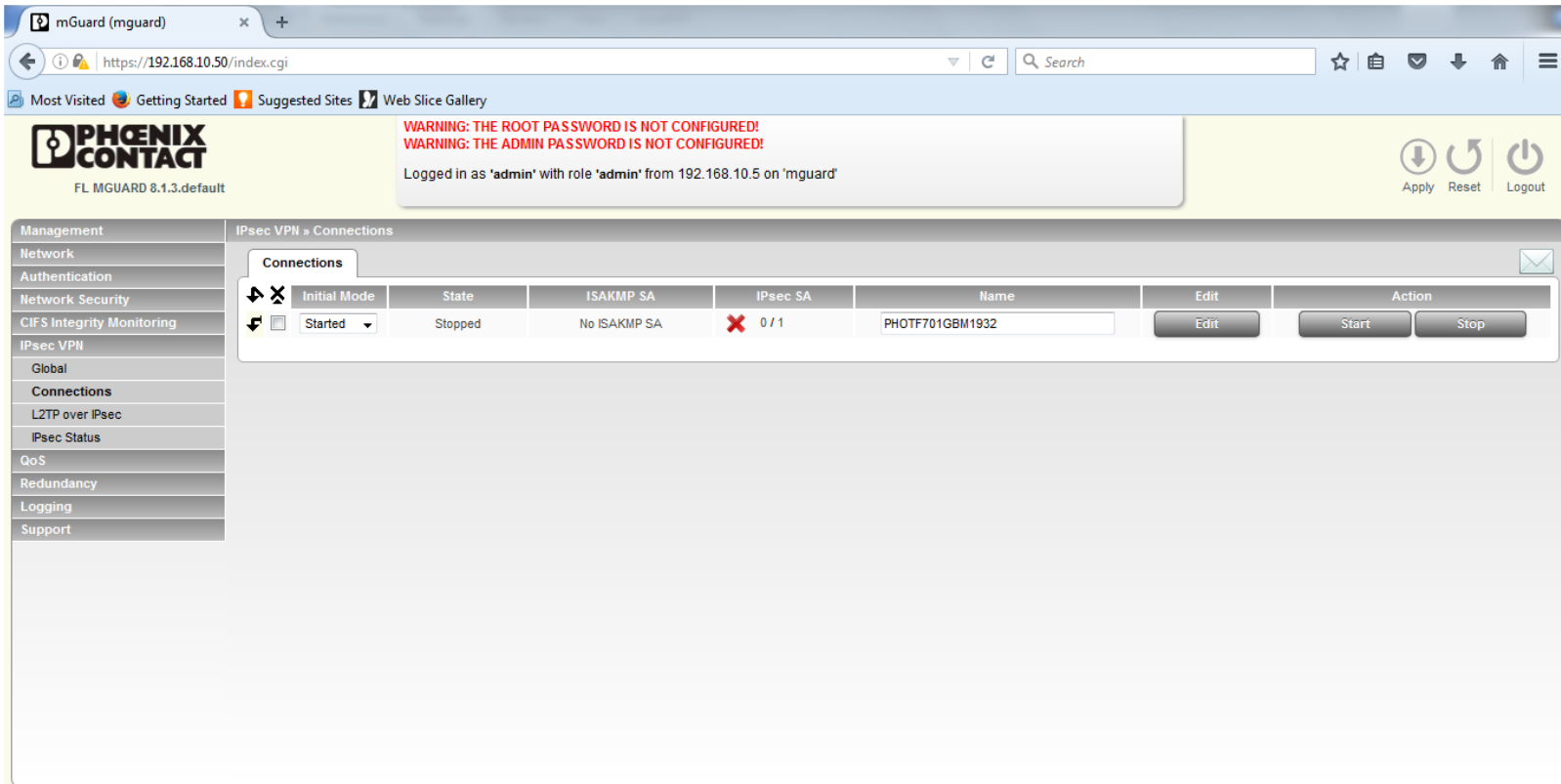
Status	Name	Action
✗	Factory Default	Restore Download
✗	Demopanel_69	Restore Download Delete
✓	MACHINE 1	Restore Download Delete

At the bottom of the configuration profiles section, there is a button labeled `Save Current Configuration to Profile` and a text input field for `Name for the new profile:` with a `Save` button next to it.

You will be notified of any IP address change for the LN port and configuration.

If the IP range on your machine network is different from the default you will have to change your IP address settings in your network sharing centre on your PC to access the web browser.

MGUARD SECURE CLOUD QUICK START GUIDE - Uploading the configuration (mGuard configuration)



PHOENIX CONTACT
FL MGUARD 8.1.3.default

WARNING: THE ROOT PASSWORD IS NOT CONFIGURED!
WARNING: THE ADMIN PASSWORD IS NOT CONFIGURED!

Logged in as 'admin' with role 'admin' from 192.168.10.5 on 'mguard'

Apply Reset Logout

Management
Network
Authentication
Network Security
CIFS Integrity Monitoring
IPsec VPN
Global
Connections
L2TP over IPsec
IPsec Status
QoS
Redundancy
Logging
Support

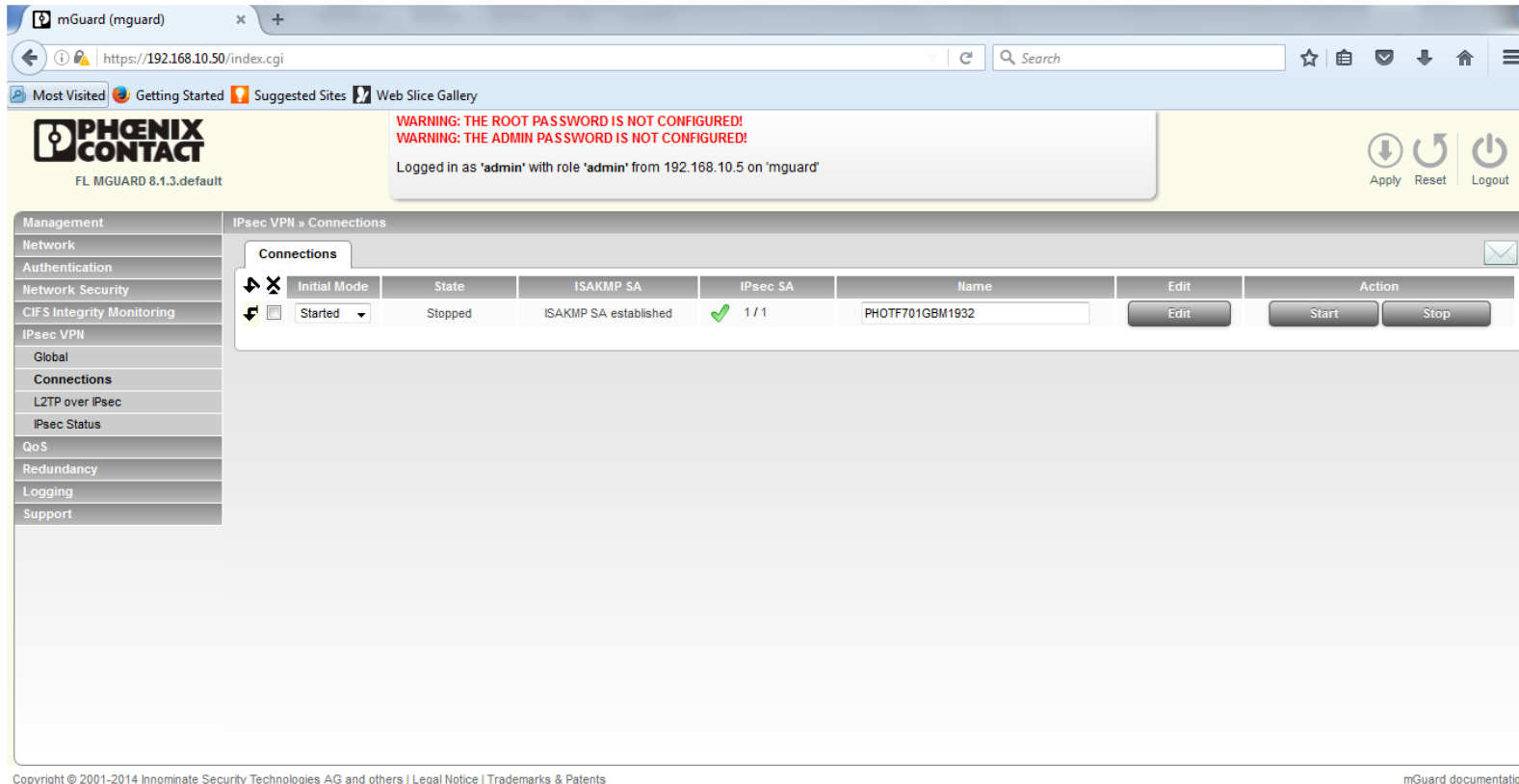
IPsec VPN » Connections

Connections

Initial Mode	State	ISAKMP SA	IPsec SA	Name	Edit	Action
Started	Stopped	No ISAKMP SA	0 / 1	PHOTF701GBM1932	Edit	Start Stop

Connect the WAN to the internet....

MGUARD SECURE CLOUD QUICK START GUIDE – Uploading the configuration (mGuard configuration)



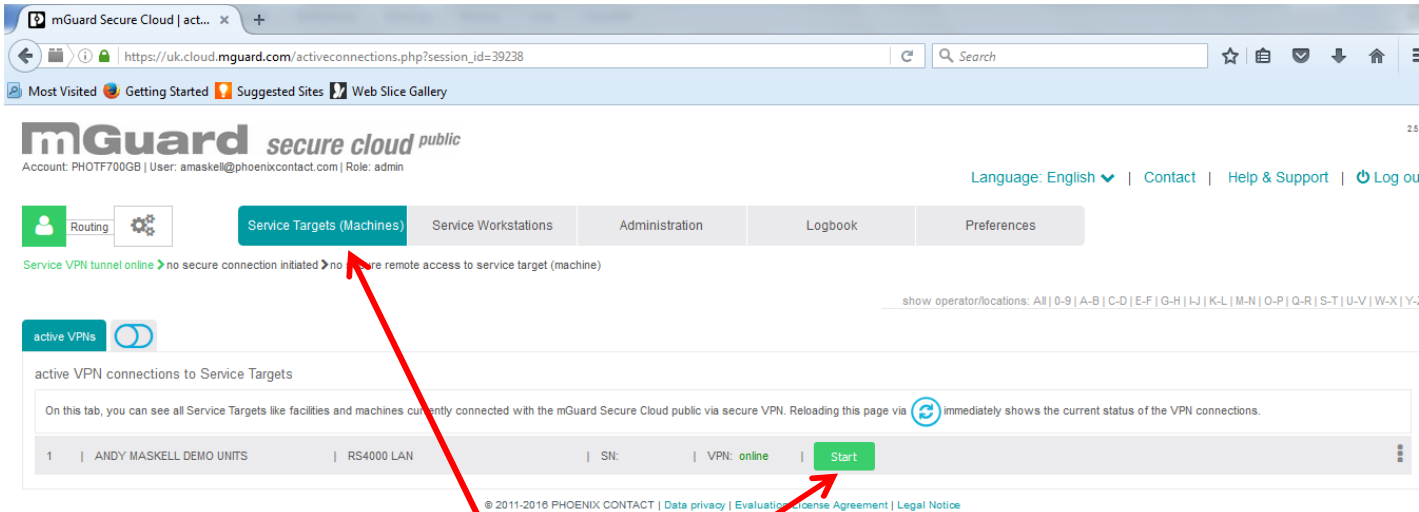
The screenshot shows the mGuard web interface in a browser window. The address bar displays `https://192.168.10.50/index.cgi`. The interface includes a sidebar with navigation options: Management, Network, Authentication, Network Security, CIFS Integrity Monitoring, IPsec VPN (selected), Global, Connections, L2TP over IPsec, IPsec Status, QoS, Redundancy, Logging, and Support. The main content area is titled "IPsec VPN » Connections" and contains a table with the following data:

Initial Mode	State	ISAKMP SA	IPsec SA	Name	Edit	Action
Started	Stopped	ISAKMP SA established	1 / 1	PHOTF701GBM1932	Edit	Start Stop

At the top of the interface, there is a warning message: "WARNING: THE ROOT PASSWORD IS NOT CONFIGURED! WARNING: THE ADMIN PASSWORD IS NOT CONFIGURED!". Below this, it states "Logged in as 'admin' with role 'admin' from 192.168.10.5 on 'mguard'". The bottom of the page contains copyright information: "Copyright © 2001-2014 Innominate Security Technologies AG and others | Legal Notice | Trademarks & Patents" and "mGuard documentation".

Your mGuard is now connected to the mGuard Secure Cloud (MSC)

MGUARD SECURE CLOUD TESTING

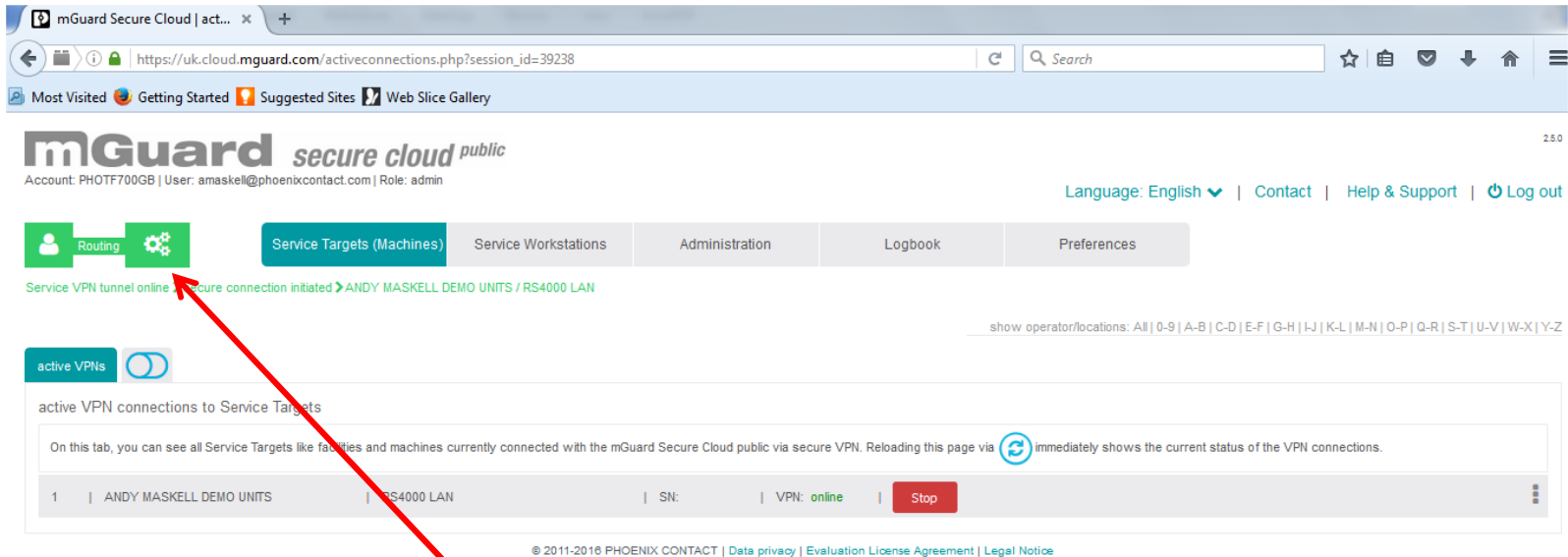


Log into your cloud account if you are not already and you will see the above image under the TAB

Service Targets (Machines)

Press Start and the cloud will create the complete connection between CLIENT & MACHINE

MGUARD SECURE CLOUD TESTING



The screenshot shows the mGuard Secure Cloud public interface. The top navigation bar includes the mGuard logo, account information (Account: PHOTF700GB | User: amaskell@phoenixcontact.com | Role: admin), and links for Language (English), Contact, Help & Support, and Log out. The main navigation menu has tabs for Routing, Service Targets (Machines), Service Workstations, Administration, Logbook, and Preferences. The Routing tab is selected, showing a status message: "Service VPN tunnel online. Secure connection initiated ANDY MASKELL DEMO UNITS / RS4000 LAN". Below this, there is a section for active VPNs, which includes a table of active VPN connections to Service Targets. The table has columns for ID, Name, SN, VPN status, and a Stop button. The first entry shows a connection to ANDY MASKELL DEMO UNITS / RS4000 LAN with SN: and VPN: online. A red arrow points from the text below to the Routing tab in the navigation menu.

You will now see that the routing is complete and your remote connection is ready to use.

You must remain connected to the cloud to retain your remote access connection.

Use your machine software etc. as you normally would whilst connected. The VPN (Virtual Private Network) behaves like a cable replacement.