# **Secure Remote Access (SRA)**

# Unattended Access: IT Admin Guide

# **Document Information**

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# **Unattended Access Overview**

#### Introduction

Secure Remote Access enables IT administrators and vendors to access critical systems remotely while maintaining robust security and compliance. This topic introduces key terms such as unattended access, cloud gateways, on-premise gateways and the prerequisites for different configurations.

Subsequent topics cover getting started, product enrollment and modifying gateway configurations.

#### **IMPORTANT**

At the time of writing, Unattended Access is available **only to Windows** clients. Access to Mac and Linux clients is due in 2026.

#### Related information

- Vendor Access
- Remote Support

#### What is Unattended Access?

*Unattended Access* is a feature of Secure Remote Access that allows you to connect remotely to your servers and network endpoints directly from your browser, using a lot of the well-known Admin By Request features like: inventory, auditlog, settings and sub-settings, approval flows, integrations etc.

The implementation of *Unattended Access* can use either a "Cloud" or an "On-premise" gateway, eliminating the need for VPN and jump servers, while still maintaining a secure and segregated setup.

# What is a cloud gateway?

A *cloud gateway* is an external (i.e. outside your network perimeter) cloud-based network access point that is centrally managed and securely routes traffic between users, cloud services, and internal resources. It acts as an intermediary, enforcing security policies, authentication, and traffic filtering while eliminating the need for traditional VPNs.

# What is an on-premise gateway?

An *on-premise gateway* is an internal security appliance or software-based solution that enables secure, controlled access to internal corporate resources from external or remote locations.

Unlike a cloud gateway, an on-premise gateway resides within the organization's network perimeter, providing greater control over security, performance, and compliance.

#### Why deploy one?

An on-premise gateway is a good option if you already have one or more gateways in your environment.



Other common use cases for deploying an on-premise gateway:

- 1. **Secure internal application access**: Employees or third-party vendors need to securely access on-premise applications without exposing them to the internet.
- 2. **Regulatory compliance**: Organizations handling sensitive data (e.g., financial, healthcare, defense) must enforce strict security policies and data localization.
- 3. **Air-gapped networks**: Industries like defense, manufacturing, and critical infrastructure require isolated network access that avoids direct cloud exposure.
- 4. **High-performance remote work**: Low-latency access to local servers and applications for performance-critical tasks.

The following table summarizes the differences between the two gateway types.

Feature	Cloud Gateway	On-Premise Gateway	
Connectivity	Traffic routed via cloud host's global network	Securely routes traffic within the internal network	
Data Storage	Cloud-hosted	Local/on-premise storage options	
Security Model	Cloud-based security policies	Local security enforcement with internal controls	
NetworkRelies on cloud host's infrastructureDependency		Functions within LAN, can operate offline for local access	
Performance Cloud host-optimized		Direct internal traffic routing, lower latency	

# **Prerequisites**

In order to use the full power of Unattended Access, there are a number of prerequisites, listed under the following headings (not all are necessarily required - review those relevant to your environment):

- "General requirements" below
- "Data location" below
- "IP addresses and API URLs" on the next page
- "Cloud gateway (managed service)" on page 4
- "On-premise gateway (self-hosted)" on page 5
- "Vendor Access" on page 5

#### General requirements

- Access to the portal at https://www.adminbyrequest.com/Login
- Windows endpoints:
  - Admin By Request for Windows 8.4.0+ on each Windows client

#### Data location

Your data is stored in a data center that is located in one of the geographic locations listed below. These are in Europe, the USA, the UK and Asia.

To determine your data location, go to page Tenant Settings > Data in the portal and click the **RETENTION** tab.



Note the geographic location shown in field **Data Location** - it will be one of the following:

- EU West, Netherlands (Europe Netherlands)
- US East, Virginia (USA)
- London, United Kingdom (∪K)
- Frankfurt, Germany (Europe Germany)
- Singapore (Asia)

To determine your data center, go to page Tenant Settings > API Keys in the portal and check which API prefix is shown under **About API Keys**. The data center (which is also the API prefix) will be one of the following:

- https://dc1api.adminbyrequest.com (Europe Netherlands)
- https://dc2api.adminbyrequest.com (USA)
- https://dc3api.adminbyrequest.com (UK)
- https://dc4api.adminbyrequest.com (Europe Germany)
- https://dc6api.adminbyrequest.com (Asia)

Make a note of your prefix - among other things, this is the domain used when an API Key is created.

You can also see your API prefix on the API web pages (e.g. Public API > Auditlog API). However, a small script runs in the background that determines to which data center you are attached, so JavaScript must be enabled in your browser for this to work.

#### IP addresses and API URLs

Admin By Request uses port **443** and the IP addresses and API URLs that need access through firewalls are as follows.

If your data is located in Europe (Netherlands):

- IP: 104.45.17.196
- DNS: api1.adminbyrequest.com
- DNS: macapi1.adminbyrequest.com
- DNS: linuxapi1.adminbyrequest.com

If your data is located in the USA:

- IP: 137.117.73.20
- DNS: api2.adminbyrequest.com
- DNS: macapi2.adminbyrequest.com
- DNS: linuxapi2.adminbyrequest.com

If your data is located in the UK:

- IP: **85.210.211.164**
- DNS: api3.adminbyrequest.com
- DNS: macapi3.adminbyrequest.com
- DNS: linuxapi3.adminbyrequest.com

If your data is located in Europe (Germany):

- IP: 9.141.94.162
- DNS: api4.adminbyrequest.com



- DNS: macapi4.adminbyrequest.com
- DNS: linuxapi4.adminbyrequest.com

If your data is located in Asia (Singapore):

- IP: 52.230.54.129
- DNS: api6.adminbyrequest.com
- DNS: macapi6.adminbyrequest.com
- DNS: linuxapi6.adminbyrequest.com

Wherever you are, you can also use **api.adminbyrequest.com**, but the regional URLs will likely be more responsive.

#### Cloud gateway (managed service)

- 1. If you are using *Secure Remote Access*, you need to allow your browsers access to the following cloud gateways:
  - cloudgatewayeu1.accessbyrequest.com (Europe Netherlands)
  - cloudgatewayus1.accessbyrequest.com (USA)
  - cloudgatewayuk1.accessbyrequest.com (UK)
  - cloudgatewaygermany1.accessbyrequest.com (Europe Germany)
  - cloudgatewaysingapore1.accessbyrequest.com (Asia)

They are called over **WSS** (Websockets Secure) on port **443** from the browser.

Further, if you wish to remotely access endpoints using *Unattended Access* and *Remote Support*:

- Outbound MQTT broker connectivity via Websockets port 443 for the following:
  - If your data is located in Europe (Netherlands):

Ten nodes (FastTrackHubEU1.azure-devices.net to FastTrackHubEU10.azure-devices.net)

• If your data is located in the USA:

Ten nodes (FastTrackHubUS1.azure-devices.net to FastTrackHubUS10.azure-devices.net)

• If your data is located in the UK:

Ten nodes (FastTrackHubUK1.azure-devices.net to FastTrackHubUK10.azure-devices.net)

• If your data is located in Europe (Germany):

Ten nodes (FastTrackHubGermany1.azure-devices.net to

FastTrackHubGermany10.azure-devices.net)

• If your data is located in Asia:

Ten nodes (FastTrackHubSingapore1.azure-devices.net to

FastTrackHubSingapore10.azure-devices.net)

- For *Unattended Access*, RDP needs to be enabled on port **3389** on the device
- 2. Cloudflare connectivity:
  - UDP outbound port 7844 for the following:
    - region1.v2.argotunnel.com
    - region2.v2.argotunnel.com
  - If your firewall supports Server Name Indication (SNI), you need to allow the following URLs (UDP outbound port **7844**):
    - cftunnel.com
    - h2.cftunnel.com

#### quic.cftunnel.com

Refer to https://developers.cloudflare.com/cloudflare-one/connections/connect-networks/deploy-tunnels/tunnel-with-firewall/ for more information on Cloudflare's "tunnel with firewall" configuration.

- 3. The endpoint needs to be enrolled with an Admin By Request Secure Remote Access license (see "Product Enrollment" on page 8).
- 4. For Windows endpoints, RDP needs to be enabled on port 3389 on each device.

#### On-premise gateway (self-hosted)

- 1. Access to pull Docker images from adminbyrequest.azurecr.io
- 2. Admin By Request API port 443 for the following:
  - connectorapi1.adminbyrequest.com (if your data is located in Europe Netherlands)
  - connectorapi2.adminbyrequest.com (if your data is located in the USA)
  - connectorapi3.adminbyrequest.com (if your data is located in the UK)
  - connectorapi4.adminbyrequest.com (if your data is located in Europe Germany)
  - connectorapi6.adminbyrequest.com (if your data is located in Asia)
- 3. Outbound MQTT broker connectivity via Websockets port 443 for the following:
  - If your data is located in Europe (Netherlands):
    - $Ten\ nodes\ (\textbf{FastTrackHubEU1}. \textbf{azure-devices}. \textbf{net}\ to\ \textbf{FastTrackHubEU1}. \textbf{azure-devices}. \textbf{net})$
  - If your data is located in the USA:
    - Ten nodes (FastTrackHubUS1.azure-devices.net to FastTrackHubUS10.azure-devices.net)
  - If your data is located in the UK:
    - Ten nodes (FastTrackHubUK1.azure-devices.net to FastTrackHubUK10.azure-devices.net)
  - If your data is located in Europe (Germany):
    - Ten nodes (FastTrackHubGermany1.azure-devices.net to FastTrackHubGermany10.azure-devices.net)
  - If your data is located in Asia:
    - Ten nodes (FastTrackHubSingapore1.azure-devices.net to

#### FastTrackHubSingapore10.azure-devices.net)

- 4. Cloudflare connectivity:
  - UDP outbound port 7844 for the following:
    - region1.v2.argotunnel.com
    - region2.v2.argotunnel.com
  - If your firewall supports Server Name Indication (SNI), you need to allow the following URLs (UDP outbound port **7844**):
    - cftunnel.com
    - h2.cftunnel.com
    - quic.cftunnel.com

Refer to https://developers.cloudflare.com/cloudflare-one/connections/connect-networks/deploy-tunnels/tunnel-with-firewall/ for more information on Cloudflare's "tunnel with firewall" configuration.

5. In order for the on-premise gateway to be able to discover devices on the network, these need to be available to the gateway on ports **3389** (RDP), **22** (SSH) or **5900/5901** (VNC).

#### Vendor Access

A further prerequisite applies to *Vendor Access*, where **SSO must be enabled for each user** who will login to the *Vendor Access* page (https://access.work).



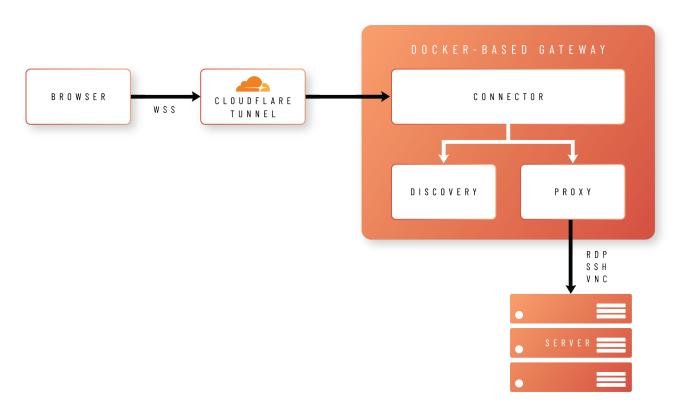
#### How does Unattended Access work?

#### **Architecture**

The idea behind *Unattended Access* is to allow users to connect to your remote endpoints using nothing but their browsers.

In order to achieve this, the browser creates a Secure WebSocket connection to a Docker-based gateway, hosted either in your own infrastructure (self-hosted) or as a managed service.

The connection is made via a secure Cloudflare tunnel, as shown in the following diagram:



The gateway comprises three different images:

#### Connector

Handles validation and translation of the data between the portal and the proxy container, as well as managing logs, health checks and other data.

#### Proxy

Establishes a protocol connection between Admin By Request and your endpoint using either RDP, SSH or VNC.

#### Discovery

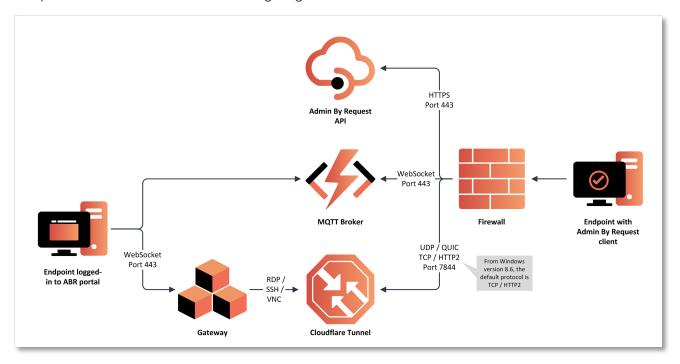
Handles automatic discovery of connectable devices running on the same network as the gateway.

#### **Process**

The process by which a user establishes an unattended access session is:

- 1. The user initiates a connection from the **Admin By Request Portal**.
- 2. The **Admin By Request client** on the unattended endpoint receives an instruction from the **MQTT Broker** to fetch settings using the **Admin By Request API**.
- 3 The settings response instructs the **Admin By Request client** to open a **Cloudflare Tunnel** by making an outbound UDP call on port 7844 using the QUIC Protocol.
- 4. The **Gateway** is instructed to forward the RDP, SSH or VNC connection through the tunnel opened by the endpoint.
- 5. A secure WebSocket connection is established between the user's browser and the **Gateway**. The response stream from the RDP, SSH or VNC connection is routed back to the browser using this secure connection.

The process is illustrated in the following diagram:



#### What next?

As well as outlining how to get started with *Unattended Access*, this document describes the customization options available and provides reference documentation for various settings that can be changed in the portal.

The next section covers licensing endpoints for Secure Remote Access via Product Enrollment. After that, Getting Started lists the initial steps for enabling *Unattended Access*, followed by the steps required for a managed cloud service, and then the steps required for a self-hosted implementation.



# **Product Enrollment**

#### What is Product Enrollment?

Product enrollment is the mechanism of determining which Admin By Request licenses – and hence product capabilities – should be available to specific endpoints.

#### How does it work?

In a real-world scenario, a company might have 100 endpoints and the following Admin By Request licenses:

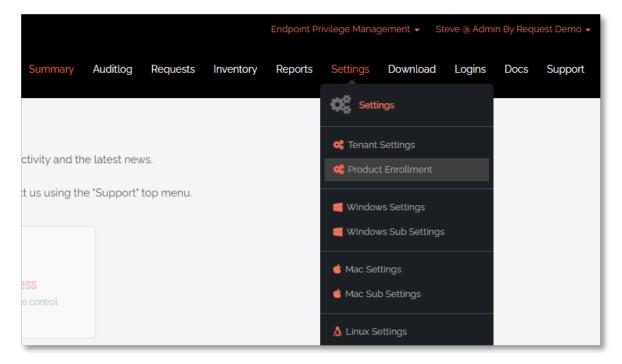
- 100 Endpoint Privilege Management (EPM) licenses
- 50 Secure Remote Access (SRA) licenses

Product enrollment allows the customer to determine which endpoints are activated with an EPM license, an SRA license – or both.

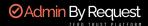
Once an endpoint gets a specific license, the corresponding functionality is instantly available on that endpoint. For example, if an endpoint gets a Secure Remote Access license then this device can now use both Unattended Access and Remote Support.

# Getting started with Product Enrollment

All product enrollment takes place from the Product Enrollment menu in the portal (**Settings > Product Enrollment**):

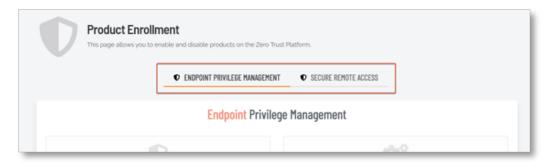


This menu is available from both EPM and SRA views.



The Product Enrollment page provides a way to assign licenses for specific Admin By Request products. The specific product is selected via tabs at the top – currently

ENDPOINT PRIVILEGE MANAGEMENT and SECURE REMOTE ACCESS are available:

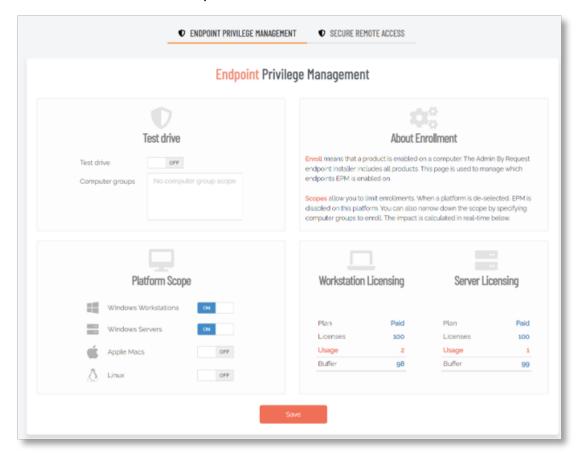


From each product tab, it's possible to determine the scope of enrollment for that product, as well as get an overview of the current license usage based on the selection.

# Platform Scope

The Platform Scope allows for quickly setting up which inventory groups should have the current product license assigned.

In the following example, the tenant is set up to have all Windows Workstations and Windows Servers enrolled with the Endpoint Privilege Management product – while Apple Macs and Linux devices won't be able to utilize the EPM functionality:





# Licensing overview

The license overview box shows how many licenses are actually used by the current enrollment settings – and how many licenses are left in the pool of purchased licenses.

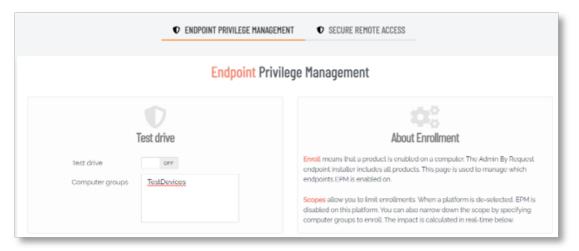
In the example above, the tenant has 100 licenses for both Workstation and Server – and the current selected enrollment uses 2 Workstation licenses and 1 Server license – leaving the tenant with a buffer of 98 for Workstation and 99 for Server Edition.

#### **Test Drive**

The Test Drive mode allows a portal user to cherry pick which devices are enrolled with the selected product. This can either be done by specifying a computer group scope or by manually picking devices.

#### Scope by computer groups

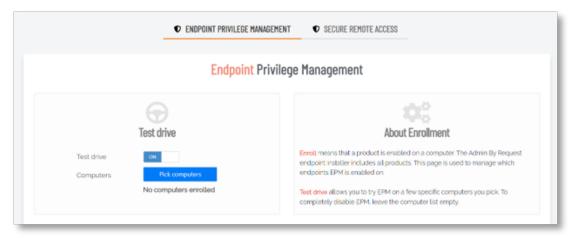
To apply the scope only to devices within specific computer groups, enter the group names into the "Computer groups" box:



In this example, the enrollment will affect only devices in the group "TestDevices".

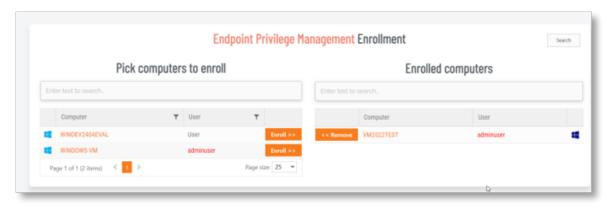
#### Scope by manual selection

To manually pick which devices should be enrolled, the Test Drive switch can be turned  $\mathbf{On}$ :





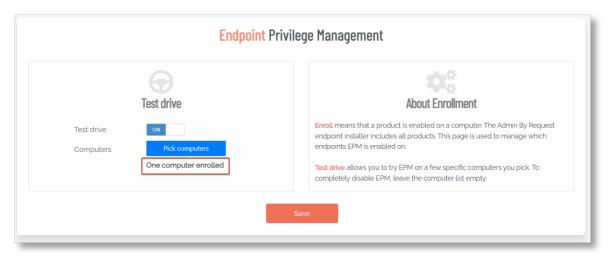
The **Pick computers** button is now available and allows for manual selection of the devices to enroll into the selected product:



In this example, the device named **VM2022TEST** has been enrolled with Endpoint Privilege Management, while the devices on the left have not.

To enroll devices, click the **Enroll >>** button for the specific device. To remove a device, click the **<< Remove** button for the device.

Going back to the enrollment page now shows the following license usage for the tenant:



Allowing for test driving Endpoint Privilege Management for the single selected device.

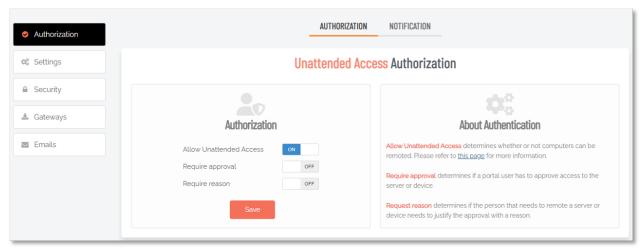
Please be aware that turning test drive on or off will cause licenses to be removed from non-selected devices. Only use the test drive feature if you manually want to pick the devices to enroll.

# **Getting Started with Unattended Access**

# How do I get started?

The very first thing is to make sure *Unattended Access* is turned on:

- 1. To enable Unattended Access, log in to the Admin By Request portal and head over to **Secure Remote Access > Settings > Unattended Access Settings**.
- 2. Select **Authorization** in the left menu and, from the **AUTHORIZATION** tab, ensure that *Allow Unattended Access* is turned **On**:



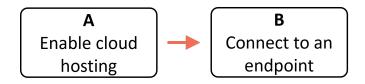
# How do I setup a Managed Service?

A managed service is a way of operating Unattended Access so that your infrastructure allows an outbound connection to establish a secure tunnel from your respective endpoints and that these have the Admin By Request endpoint client installed.

Using Admin By Request's Managed Service for *Unattended Access* is the default. If you decide on this option when first enabling *Unattended Access*, no configuration is required; all you need to do is:

- 1. Ensure your endpoints have the Admin By Request endpoint client installed.
- 2. Connect to an endpoint (see next page).

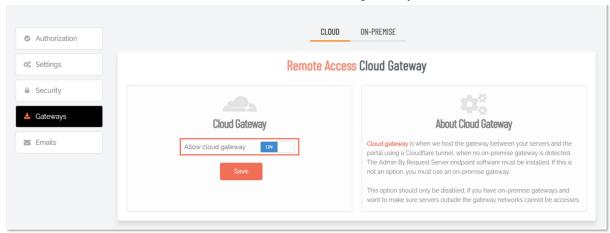
If this is not the first time enabling *Unattended Access* and you have previously configured an on-premise gateway, the following tasks are needed to setup a managed service using a Cloudflare tunnel:





#### A. Check cloud hosting

- Ensure that your endpoints have the Admin By Request endpoint client installed
- 2. In the portal, go to Secure Remote Access > Settings > Unattended Access Settings.
- 3. Select the **Gateways** menu and check if a CLOUD tab exists:
  - If not (the default), there is nothing to configure the cloud gateway is already enabled.
  - If so, click the CLOUD tab and ensure that *Allow cloud gateway* is **On**:



The CLOUD tab becomes visible only when an on-premise gateway is created. If no on-premise gateway has been created, the CLOUD tab is not available and Unattended Access uses the managed service option, which is enabled by default and requires no configuration.

Creating an on-premise gateway means the cloud gateway must be disabled (see "How do I setup a Self-hosted Implementation?" on the next page), which is why the CLOUD tab becomes visible when a gateway is created.

That's it. The Admin By Request agent will now attempt to establish a secure tunnel via an outbound call - allowing connections directly via the managed gateway.

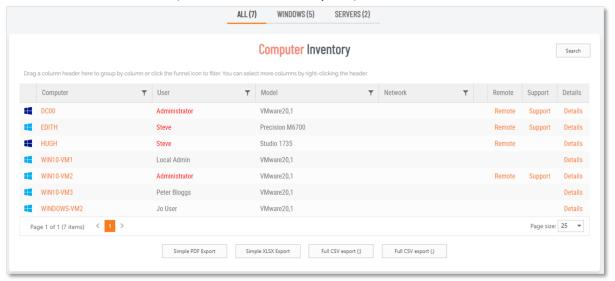
#### B. Connect to an endpoint

In order to allow Admin By Request to connect to your endpoints, they need to allow traffic on the following ports:

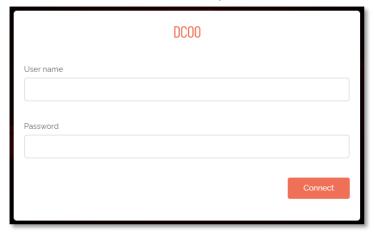
- RDP 3389
- SSH **22**
- VNC 5900 and 5901



1. From the portal, head over to your Inventory and make sure you're in the Secure Remote Access view. Select an endpoint with the Admin By Request client installed:



2. Click the **Remote** link for this endpoint, enter *User name* and *Password* and click **Connect**:

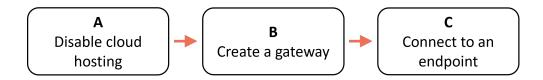


After a few seconds, the connection appears directly in your browser.

# How do I setup a Self-hosted Implementation?

A *self-hosted implementation* means that you run Unattended Access on-premise inside your own infrastructure, including the ability to run Docker containers. To establish a secure tunnel, your infrastructure must also allow outbound connections to Cloudflare.

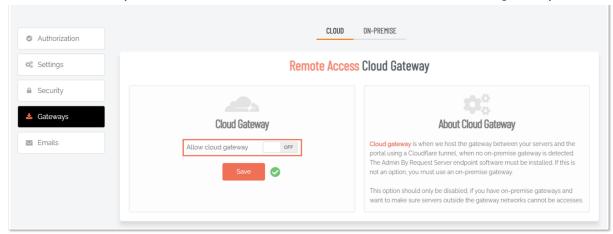
The following tasks are needed to setup a self-hosted implementation:





#### A. Disable cloud hosting

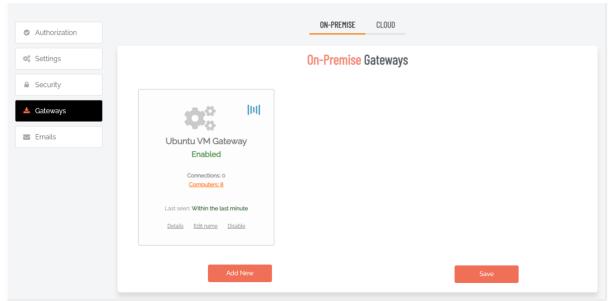
- 1. Ensure that your endpoints have the Admin By Request endpoint client installed.
- 2. In the portal, go to Secure Remote Access > Settings > Unattended Access Settings.
- 3. Select the Gateways menu and, from the CLOUD tab, ensure that Allow cloud gateway is Off:

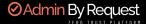


4. Click **Save** if making changes.

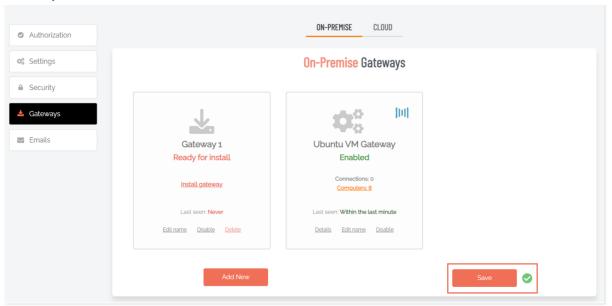
#### B. Create a gateway

1. In the portal, from the Gateways menu, select the ON-PREMISE tab. This shows the current gateways for your tenant:

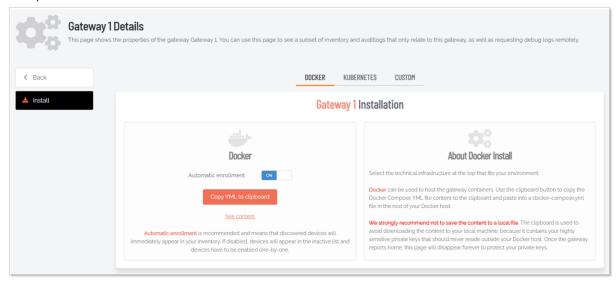




2. Click **Add New**, followed by **Save**. This will create a new Gateway with the default name *Gateway 1*:



3. Click the words **Install gateway**. This displays a view that allows access to the Docker compose file used for the installation:



The Docker compose file contains all the information necessary to orchestrate the Docker containers required to make *Unattended Access* work.

- 4. Click Copy YML to clipboard to copy the Docker compose file to your clipboard.
- 5. Add a new docker-compose.yml file to your Docker host, paste in the content and run the following command:

sudo docker compose up -d

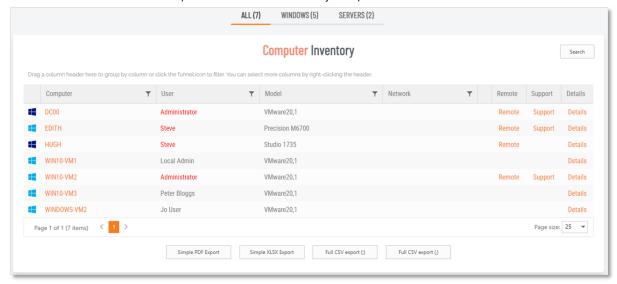
This will spin up the containers and communicate back to the Admin By Request portal with all of the necessary information. Furthermore, a secure tunnel will be initiated between Cloudflare and the Connector container.



#### C. Connect to an endpoint

In order to allow Admin By Request to connect to your endpoints, they need to allow traffic on the following ports:

- RDP 3389
- SSH 22
- VNC 5900 and 5901
- 1. From the portal, head over to your Inventory and make sure you're in the Secure Remote Access view. Select an endpoint with the Admin By Request client installed:



2. Click the **Remote** link for this endpoint, enter *User name* and *Password* and click **Connect**:



After a few seconds, the connection appears directly in your browser.

# Upgrading Unattended Access On-Premise (Self-hosted)

An environment variable was introduced from version 2.0.9 that needs to be present in order for your gateway to function properly. The variable is called **AUTH\_\_TOKEN** and, if missing in your environment, you can add it to your Docker setup to enable the next docker compose pull to complete successfully.

AUTH\_\_TOKEN needs to be set for all three images: *Connector, Proxy* and *Discovery*. The value of the AUTH\_\_TOKEN variable can be anything you choose - it just needs to be the same across the different services. We recommend setting it to a UUID value or something of similar complexity.

In the case of a Docker compose file, the change would look like this:

```
🔚 docker-compose.yml 🛚 🛣
         version: "3"
  2
  3
       -services:
  4
          connector:
  5
            image: adminbyrequest.azurecr.io/remote-access/connector
            container name: "connector"
  6
  7
           ports:
  8
             - "8000:80"
  9
             environment:
              - TOKEN SECRET=123123123
              - TOKEN PRIVATEKEY=324234324234
 11
 12

    TOKEN INITIALIZATIONVECTOR=90879087897

              - API_URL=ur1
- API_KEY=239048239048902384
 13
  14
              - API PRIVATEKEY=234+90823490+8239804
 15
               - API INITIALIZATIONVECTOR=230498239048
 16
              - AUTH__TOKEN=xxxx
 17
 18
             volumes:
 19
              - shared-data:/records
 20
             restart: unless-stopped
 21
 22
          proxy:
 23
            image: adminbyrequest.azurecr.io/remote-access/proxy
 24
             container_name: "proxy"
 25
             environment:
               - CONNECTOR HOST=connector
 26
              - AUTH__TOKEN=xxxx
 27
 28
            depends on:
 29
              connector:
 30
                condition: service_healthy
 31
            links:
 32
              - connector
 33
             volumes:
 34
             - shared-data:/records
 35
             restart: unless-stopped
 36
 37
          discovery:
 38
            image: adminbyrequest.azurecr.io/remote-access/discovery
 39
             container name: "discovery"
 40
            environment:
              - AUTH__TOKEN=xxxx
 41
             network_mode: "host"
 42
 43
             depends on:
 44
              connector:
 45
               condition: service healthy
 46
             restart: unless-stopped
 47
 48
             volumes:
 49
 50
             shared-data:
```

Once these changes have been made, you can run the following commands (in order):

```
1 | sudo docker compose pull
2 | sudo docker compose up -d
```



This will spin up the containers using the new image and the newly added AUTH\_\_TOKEN variable.

#### **NOTE**

If you spin up a new gateway using the portal, you will not need to change anything manually. The required changes will be incorporated into the docker compose file generated by the portal.

# Discovery

When using the self-hosted on-premise setup, the Discovery module is also available. The Discovery module automatically looks at the current network in which it is running and reports findings back to the portal about endpoints responding on ports 3389, 22 or 5900/5901.

This gives you the advantage of not having to manually map endpoints that are not running the Admin By Request endpoint client. This also has the benefit of mapping your network(s) automatically to your Admin By Request inventory, allowing you to connect to agent-less devices like routers, firewalls etc.

Refer to "Configuring Discovery" on page 20 for more information on Discovery.



# **Modifying Configurations**

# **Configuring Discovery**

#### **IMPORTANT**

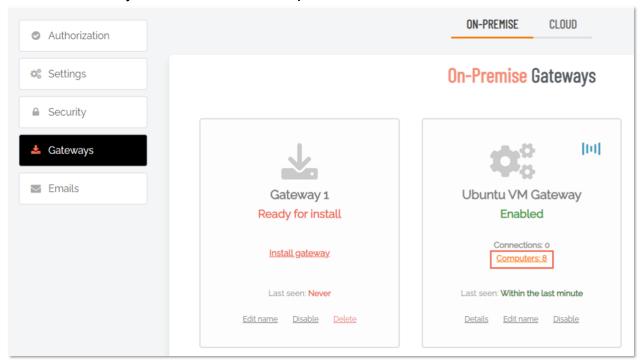
If you run your gateway behind a reverse proxy, you need to ensure that the end user's IP is forwarded to the gateway using the x-Forwarded-For header.

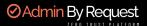
When using the self-hosted on-premise setup, the Discovery module is also available. The Discovery module automatically looks at the current network in which it is running and reports findings back to the portal about endpoints responding on ports **3389**, **22** or **5900/5901**.

This gives you the advantage of not having to manually map endpoints that are not running the Admin By Request endpoint client. This also has the benefit of mapping your network(s) automatically to your Admin By Request inventory, allowing you to connect to agent-less devices like routers, firewalls etc.

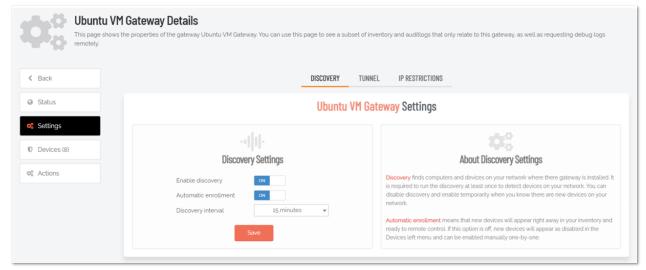
The Discovery service can be configured by going to the details view of a gateway and accessing the Settings menu:

- In the portal, go to Secure Remote Access > Settings > Unattended Access Settings.
- 2. Select the **Gateways** menu and click the **Computers (n)** link:





3. This action opens the *Devices (n)* menu, which is the default and shows a list of devices the gateway can access. Select the **Settings** menu to view Discovery Settings for the selected gateway:



The discovery service runs at the selected interval (every 15 minutes in this case). If automatic enrollment is *enabled*, the discovered devices will automatically be added as active endpoints to your inventory. If automatic enrollment is *disabled*, devices will be shown as inactive devices within your inventory.

#### NOTE

Refer to "Settings" on page 40 for more information on configuring discovery settings.

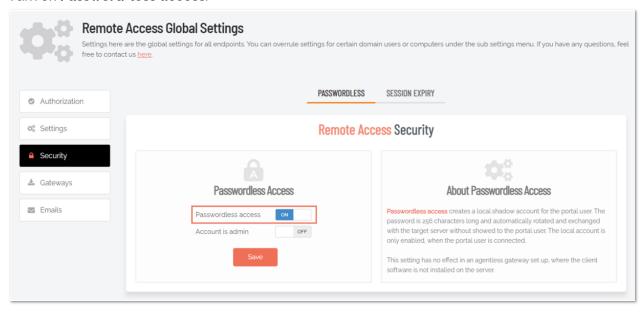
#### Password-less

If you do not wish to let users connect to your remote endpoints using username and password, the Admin By Request Server agent allows you to connect password-less by using a *Just-In-Time* account that gets created for a specific session and then gets disabled immediately afterwards.



To enable password-less accounts for endpoints running the agent:

- 1. In the portal, go to Secure Remote Access > Settings > Unattended Access Settings and select the Security menu.
- 2. Turn on Password-less access:



3. Don't forget to click **Save**.

Now, if you select an endpoint with the Admin By Request client installed, you wont be prompted to enter username and password, but will instead be signed in using a *Just-In-Time* account.

# What if I don't want to use Docker compose?

You can use the on-premise *Unattended Access* setup without Docker compose. In order to make the setup work without docker compose, you will need to spin-up containers using the following Docker images:

- Connector: adminbyrequest.azurecr.io/remote-access/connector
- **Proxy**: adminbyrequest.azurecr.io/remote-access/proxy
- Discovery: adminbyrequest.azurecr.io/remote-access/discovery

From the downloaded Docker compose file, you can see the necessary environment variables for the containers. These are also available from the Gateway installation page under the *Custom Setup* tab (see "Install" on page 39).

Furthermore, the following needs to apply:

- Your endpoint needs to be reachable via RDP, SSH or VNC from the Proxy container.
- The Proxy container needs to be reachable from the Connector container.
- The Connector container needs to allow HTTPS-traffic.
- If you wish to use the discovery functionality, the Discovery container needs to be reachable from the Connector container.

Once spun up, the Proxy container will automatically register with the Connector container, which will automatically register with the Admin By Request portal, allowing you to use the same connection flow described in "How does Unattended Access work?" on page 6.



#### What if I don't want to use Cloudflare tunnels?

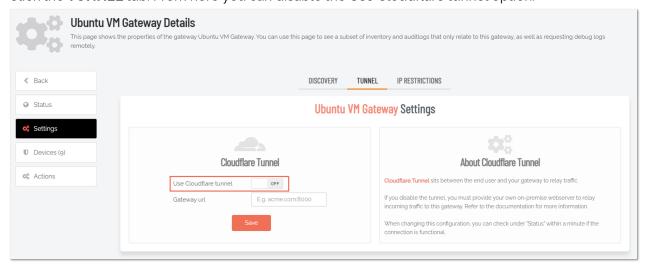
You can also use the *Unattended Access* setup without using Cloudflare tunnels. In this scenario, you need to have a webserver, HTTP proxy or reverse proxy configured that can direct traffic to the Connector container on the Docker host.

A way to accomplish this would be to spin up something like **Traefik** (https://traefik.io/traefik/) within the Docker host and use this as the receiving endpoint for the Secure WebSocket communication.

#### Configuration procedure

In order to configure the Admin By Request portal to disable tunnels and setup a custom domain or IP to point the traffic to, you need to do the following:

- 1. In the portal, go to Secure Remote Access > Settings > Unattended Access Settings and select the Gateways menu.
- 2. Click the **Details** link to go to the properties view of the gateway you want to configure and select the **Settings** menu.
- 3. Click the **TUNNEL** tab. From here you can disable the *Use Cloudflare tunnel* option:



Disabling the *Use Cloudflare tunnel* option makes the *Gateway URL* field visible, which is where you can enter the URL of your own gateway.

4. Enter the address of your webserver, reverse proxy or similar and click **Save**.

All connection requests will be directed to that URL – and the Connector will not be instructed to set up a Cloudflare tunnel.

# Auditlog

All sessions with *Unattended Access* are documented in the Auditlog, regardless of the setup in use. The Auditlog shows which users have connected to which endpoints, as well as the session duration and gateway used.

Refer to "Supplementary Technical Info" on page 26 for more information about the Auditlog.



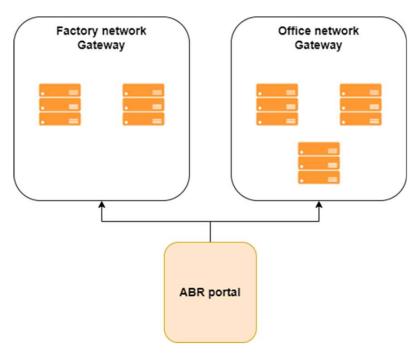
# Multi-Gateway Setup

In order for the on-premise gateway to allow connections to your remote endpoints, there needs to be a direct connection path. This means that the user needs to be able to connect to the Connector, the Connector needs to be able to connect to the Proxy container and the Proxy container needs to be able to connect to your endpoint on any of the supported ports.

If you have multiple segregated networks, you simply create and spin up a gateway per network, location, subnet or however your setup is segregated. Each gateway will establish a connection with the portal and make itself available without further configuration.

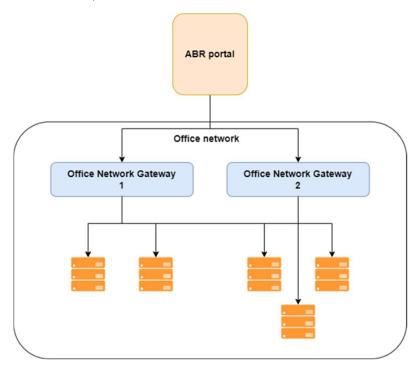
#### Architecture options

The endpoint you choose to connect to will simply handle the connection via the gateway(s) available to it:





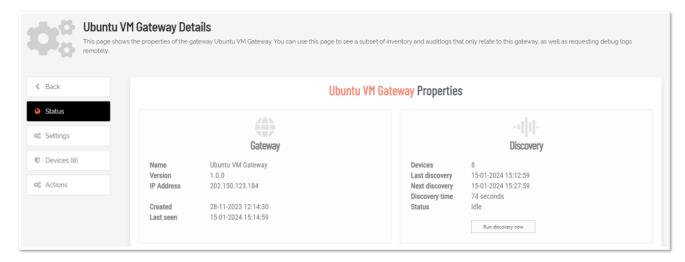
You can even spin up multiple gateways on the same network if you want to scale for better performance. In this case, the portal will simply select the gateway with the fewest active connections whenever a remote session is requested:



Each gateway will deliver discovery information, allowing you to map your entire network(s) to the Admin By Request inventory, as well as remote connecting directly each endpoint.

#### Gateway details

Besides the inventory, each gateway will also show information about the devices available for the specific gateway, active connections, auditlogs, callbacks made by the gateway, logs and much more:



# **Supplementary Technical Info**

# **Unattended Access Auditlog**

All sessions with *Unattended Access* are documented in the Auditlog, regardless of the setup in use. The Auditlog shows which users have connected to which endpoints, as well as the session duration and gateway used.

If the endpoint has the Admin By Request Server agent installed, the auditlog will also contain detailed information about which software has been used as well as all of the other things recorded by the classic Admin By Request auditlog.

Besides this, you also have the option to enable video recording of each session to be used as additional documentation.

To enable video recording:

- In the portal, go to Secure Remote Access > Settings > Unattended Access Settings and select the Settings menu.
- 2. On the **RECORDING** tab, enable *Screen recording*.

# A Word about Security

There are security mechanisms built in to the *Unattended Access* setup.

When clicking the **Remote Control** button for a device in the Inventory (**Inventory > [Device] > Details** > **Properties**), the following flow is initiated:

- 1. A one-time unique transfer token is coupled with the initiating user's IP address.
- 2. The transfer token is sent to the Connector.
- 3. The Connector uses the transfer token to call back the Admin By Request portal to verify that the request is valid and actually initiated by the current user.
- 4. If the transfer token is valid, the Admin By Request portal issues a connector token. This token contains information about the endpoint and credentials, as well as settings for the remote session.
- 5. The Connector receives the connector token and verifies its validity.
- 6. If the token is valid, the arguments are sent to the Proxy, which will in turn attempt to establish a connection to the endpoint.

Furthermore, the information supplied in the Docker compose file can only be spun up for a short period of time. Once the gateway has been spun up, it will be locked to the server's IP address.

The connector token is encrypted using a secret only known by the Connector and the Admin By Request portal. The token values are also HMAC-validated by verifying a signed hash value of the connection properties.

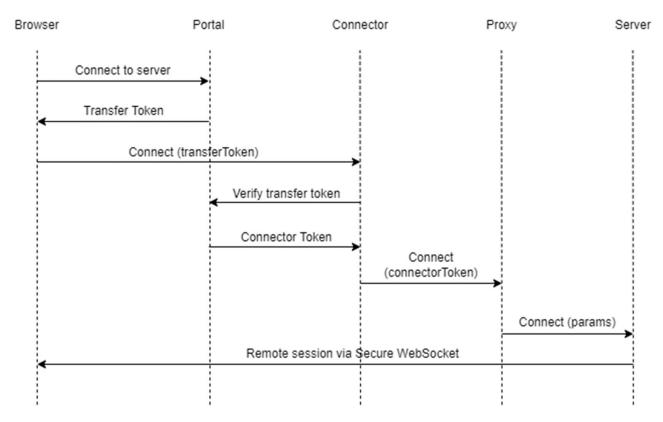
All connections made by browsers are via Secure WebSockets and the gateways are "pull-configuration" only.

#### **Technical Flows**

#### Connection Flow

The following diagram shows the technical flow when a user requests to access a remote endpoint.

#### Connection flow



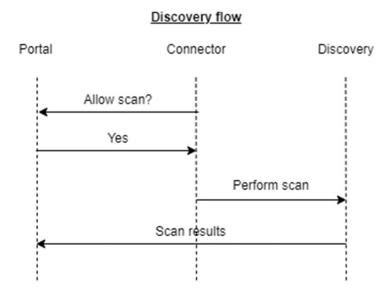
During this process, the following happens:

- 1. The Admin By Request portal assigns a one-time transfer token that's coupled with the user's IP address.
- 2. The transfer token is delivered from the browser to the Connector to inform that a request to connect to an endpoint is present.
- 3. The Connector validates the transfer token by sending it back to the portal alongside the user's IP address. If token and IP address match, the portal issues a connector token that contains the necessary information to connect to the endpoint.
- 4. When the Connector receives the token, it'll start by decrypting the values. Once decrypted, the values are HMAC-validated to ensure that no tampering has occurred.
- 5. If decryption and HMAC validation succeeds, the connection parameters are passed along to the Proxy, which initiates the connection to the endpoint with the requested protocol.
- 6. The connection stream is delivered back to the browser via Secure WebSocket.

If the gateway is configured with Cloudflare tunnels, then all communication is sent via the unique secure tunnel for that gateway.

#### Discovery Flow

The following diagram shows the discovery flow:



The Connector asks the portal repeatedly if a discovery scan should be allowed to run. Based on the settings within the portal, this might eventually return a positive result.

Upon receiving a positive result, the Connector asks the Discovery container to run the discovery process. This returns a collection of discovered devices, which will in turn be returned to the portal to be ingested into the Inventory.

#### **Tunnel Initiation Flow**

The following diagram shows the tunnel initiation flow:

# Portal Connector Cloudflare Create tunnel? Set up tunnel OK (token) Response (token) Initialize tunnel (token) Tunnel status Tunnel status

Upon spinning up the Connector container, the portal is asked repeatedly if a tunnel should be initialized. If the portal settings allow for a tunnel to be created, the portal calls Cloudflare to set up the tunnel and receive a unique tunnel token back.



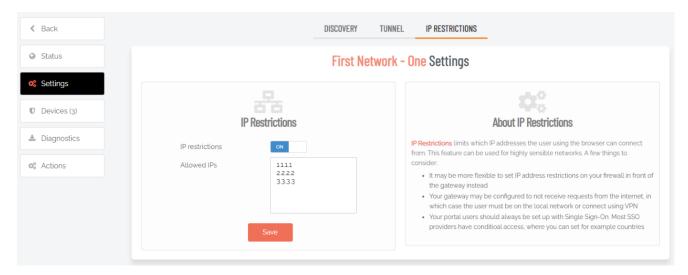
This token is returned to the Connector, which then initializes the tunnel to Cloudflare. Once the tunnel has been established, a status call is made to ensure connectivity. This status is returned to the portal, notifying it that the tunnel is ready for use.

# **Limiting Access**

Besides how the *Unattended Access* solution grants access to various endpoints inside the infrastructure, limiting and securing access is of the highest importance. We recommend that customers at the very least:

- a. Enable SSO with conditional access for users with remote access privileges.
- b. Consider restricting the access to gateways based on the IP addresses that should be allowed to connect via each one.

We recommend that IP address restrictions are made within your own infrastructure, but restrictions can also be set via the portal by going to the gateway details and selecting Secure Remote Access > Settings > Unattended Access Settings > Gateways > ON-PREMISE > [Gateway] > Settings > IP RESTRICTIONS:



From here, IP restrictions can be enabled, allowing you to enter the IP addresses you want to allow the ability to access endpoints via the selected gateway.



# **Portal Administration for Unattended Access**

#### Introduction

This topic documents configuration parameters in the Admin Portal that can be used to manage *Unattended Access Settings* and *Sub Settings*.

Fields that can be set/configured in the portal are presented in tables, with each table showing:

- Setting the name of the field that controls the setting
- Type the type of value that can be entered or selected and its default value
- Description how the setting is used and notes about any implications it may have on other settings

To change any of the settings in the portal, log in to the portal and select the setting from the menu.

# In this topic

"Unattended Access Settings" on the next page

"Authorization" on the next page

"Settings" on page 32

"Security" on page 33

"Gateways" on page 34

"Emails" on page 43

"Sub Settings" on page 46



# **Unattended Access Settings**

Portal menu: Secure Remote Access > Settings > Unattended Access Settings

Settings here are the global settings for all endpoints participating in the feature. You can overrule settings for listed domain users or computers under the sub-settings menu.

#### **Authorization**

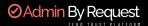
Portal menu: Secure Remote Access > Settings > Unattended Access Settings > Authorization

#### **AUTHORIZATION tab**

*Unattended Access* is a feature that allows portal admins to remote control computers using only a browser and without requiring a user to be present at the remote computer.

Allow Unattended Access is the overall setting that determines whether or not the feature is enabled.

Setting	Туре	Description
Allow Unattended Access	Toggle On   Off Default: <b>On</b>	<b>On</b> - Allows computers to be accessed remotely without a user present. Reveals <i>Require approval</i> and <i>Require reason</i> fields.
		Off - Computers cannot be accessed remotely without a user present. Hides Require approval and Require reason fields.  Note that Remote Support might still be possible, depending on Remote Support settings.
Require approval (hidden if Allow Unattended Access is Off)	Toggle On   Off Default: <b>Off</b>	On - Sends a request to the IT team, which must be approved before remote access to the server or device is granted.  Makes Require reason mandatory (i.e. must be On).
		<b>Off</b> - Allows remote access to the server or device without approval. Makes <i>Require reason</i> optional (i.e. can be either On or Off).
Require reason (hidden if <i>Allow Unattended Access</i> is Off)	Toggle On   Off Default: <b>Off</b>	<b>On</b> - A reason for remote access must be provided, and it must comprise at least <i>two words</i> . This information is stored in the Auditlog.
		<b>Off</b> - No reason is required for remote access, but details of the actions performed are stored in the Auditlog.
Save	Button	Saves customization and changes to any fields.  Note that reloading any defaults does not take effect until  Save is clicked.



#### NOTIFICATION tab

Email notification to administrators is available when Require approval is checked under Authorization.

Notifications can be sent for the following scenarios:

- Each new request for approval (Run As Admin) or admin session access (Admin Session)
- When malware is detected (Workstation Settings > [OS] Settings > Malware)
- When unattended remote access is requested (Unattended Access)
- When either an end user or portal admin initiates a Remote Support session.

As with other request types, new requests for approval always appear under **Requests > Pending** in the Portal top menu. This is the case for both Endpoint Privilege Management and Secure Remote Access.

The *Notification* setting enables and configures **additional email notification** for new requests. If multiple email addresses are specified, they must be on separate lines.

#### **NOTE**

Phone notification is separate and happens automatically via push notifications to phones with the mobile app installed.

Setting	Туре	Description
Send email notifications	Toggle On   Off Default: <b>Off</b>	On - Additional email notifications are sent to the email addresses listed in <i>Email addresses</i> .  Off - Email notifications are not sent.
Email addresses	Text	Standard email address format. Use a new line for each address.
Save	Button	Saves customization and changes to any fields.  Note that reloading any defaults does not take effect until  Save is clicked.

#### Settings

Portal menu: Secure Remote Access > Settings > Unattended Access Settings > Settings

#### **RESOURCES** tab

Enable or disable file sharing.

Setting	Туре	Description
Allow file sharing	Toggle On   Off Default: <b>On</b>	On - Allows the upload of files to the server in the cloud.  Off - Disables the ability to upload files to the server.  If file upload is a concern, this setting should be disabled (i.e. set to Off).
Save	Button	Saves customization and changes to any fields.  Note that reloading any defaults does not take effect until  Save is clicked.



#### **RECORDING** tab

Screen recording means that the remote session is recorded.

Files are stored locally and can be requested in the auditlog by expanding the relevant line.

Setting	Туре	Description
Screen recording	Toggle On   Off Default: <b>Off</b>	On - Screen recording is enabled.  Off - Screen recording is disabled.
Save	Button	Saves customization and changes to any fields.  Note that reloading any defaults does not take effect until  Save is clicked.

#### Security

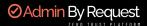
Portal menu: Secure Remote Access > Settings > Unattended Access Settings > Security

#### PASSWORDLESS tab

Used to connect to endpoints passwordless. This setting creates a local shadow account for the portal user. The password is 256 characters long and is automatically rotated and exchanged with the target server with no visibility to the portal user. The local account is enabled only when the portal user is connected.

This setting has no effect in an agentless set up, where the client software is not installed on the server.

Setting	Туре	Description
Passwordless access	Toggle On   Off Default: <b>Off</b>	<b>On</b> - Passwordless access is enabled - a local admin account that is an alias of the logged-in portal user will be created every hour. Reveals <i>Account is admin</i> field.
		<b>Off</b> - Passwordless access is disabled. Hides <i>Account is admin</i> field.
Account is admin (hidden if <i>Passwordless</i> access is Off)	Toggle On   Off Default: <b>Off</b>	On - The rotating account will have admin-level access  Off - The rotating account will not have admin-level access.
Save	Button	Saves customization and changes to any fields.  Note that reloading any defaults does not take effect until  Save is clicked.



#### MFA tab

MFA (Multi-Factor Authentication) requires the portal user to re-authenticate with single sign-on when connecting remotely to an endpoint.

If the logged-on portal user does *not* log on with SSO (single sign-on), the user will be denied access to the endpoint.

Setting	Туре	Description
Require MFA	Toggle On   Off Default: <b>On</b>	On - The logged-on portal user must authenticate via SSO when connecting remotely to an endpoint.  Off - Portal user does not need to authenticate via SSO to remotely connect.
Save	Button	Saves customization and changes to any fields.  Note that reloading any defaults does not take effect until  Save is clicked.

#### SESSION EXPIRY tab

Session expiry is the maximum length a remote session may last. When this time expires, the remote session will be disconnected.

#### NOTE

Selecting **Unlimited** is not recommended, as this would result in no expiry on the remote session.

Setting	Туре	Description
Session expiry	Selection Default: <b>4 hours</b>	Select a value between <b>15 minutes</b> and <b>Unlimited</b> . <b>Custom</b> is also available - if selected, choose the required number of <b>Hours</b> and <b>Minutes</b> .
Save	Button	Saves customization and changes to any fields.  Note that reloading any defaults does not take effect until  Save is clicked.

#### Gateways

Portal menu: Secure Remote Access > Settings > Unattended Access Settings > Gateways

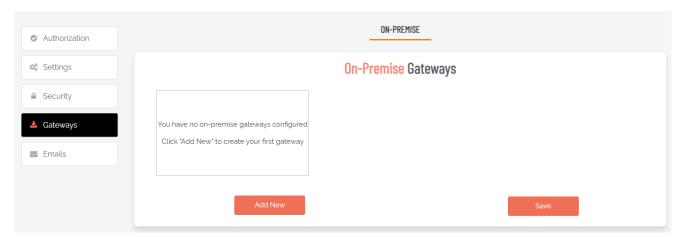
The Gateways menu provides both dashboard and detailed information views. The default view is the "Gateway Dashboard" on the next page, which provides an overview of existing gateways and links and buttons for further information.

Additional views are: "New Gateway" on page 38 and "Existing Gateway" on page 40.

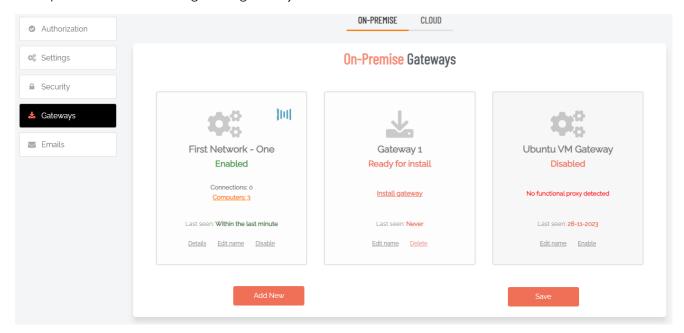


#### **Gateway Dashboard**

First use (i.e. no gateways configured):



Example dashboard showing three gateways:



#### **CLOUD** tab

Cloud hosting is when Admin By Request hosts the gateway between your servers and the portal using a *Cloudflare* tunnel. Cloud hosting is the default for *Unattended Access* and is used when no onpremise gateway is detected. In fact, when first enabling *Unattended Access*, the CLOUD tab will not even be visible, since it is enabled by default and requires no configuration.

If configuring an on-premise gateway, the CLOUD tab becomes visible, allowing you to disable it in favor of the on-premise gateway.

Cloud hosting requires installation of the Admin By Request Server endpoint software. If this is not an option or you have devices on which you cannot install the endpoint software, you must use an onpremise gateway.



This option should only be disabled if you have on-premise gateways and want to make sure servers *outside* the gateway networks cannot be accessed.

Setting	Туре	Description
Allow cloud gateway	Toggle On   Off Default: <b>On</b>	On - Allows the remote access gateway to be hosted by Admin By Request in the cloud.  Off - The remote access gateway cannot be hosted in the cloud.
Save	Button	Saves customization and changes to any fields.  Note that reloading any defaults does not take effect until  Save is clicked.

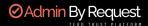
#### **ON-PREMISE** tab

On-premise gateways are used to create a create a traffic gateway from the Admin By Request portal to your internal network. You can set up multiple gateways on multiple networks and limit access to specific users and groups via portal user scopes and sub settings.

Gateway computers, accessed via link *Computers (n)*, are the devices that can be remote controlled through this gateway. Note the following:

- Computers will appear based on discovery.
- If computers appear that are not supposed to be made available for remote control, they can be deleted from the list.
- If computers have been deleted by mistake, they can be restored under the "Deleted" tab.
- Offline computers are computers that were not seen in last discovery.

Setting	Туре	Description
Gateway	Dashboard	Displays information about existing gateways and provides links and buttons for updating, drilling down further and creating new gateways.



Setting	Туре	Description
Computers (n)	Link (drill-down)	Clicking the drill-down link opens an inventory-style list of all devices accessible via this gateway. Devices can be entered manually or they can be discovered.
		Devices can be <b>ACTIVE</b> or <b>INACTIVE</b> and are displayed in the corresponding tab:
		<ul> <li>ACTIVE: able to be connected to via Unattended Access and consume a license.</li> <li>INACTIVE: are not able to be connected via Unattended Access and do not consume a license.</li> <li>Use the Disable/Enable links to make a device active/inactive respectively.</li> <li>Use the Search button to search for devices in large lists and the Export buttons to export data in the format shown.</li> </ul>
Details	Link (drill-down)	Shows the current status of the gateway, including Internet and LAN availability.  Use the <b>Run discovery now</b> button to renew discovery of connected devices.
Edit name	Link	Opens the gateway name field in edit mode, allowing the name to be changed. Click the small <i>Save</i> icon to update.
Disable	Link	Disables the gateway. Click <b>Save</b> to confirm.
Add New	Button	Creates a new gateway and labels it <b>Gateway 1</b> , <b>Ready for install</b> .  Edit the name if necessary and click <b>Save</b> to save the new gateway.  Note that there are more steps required: once a gateway has been created, it must be installed. Refer to "New Gateway" on the next page for information on how to install a gateway.
Save	Button	Saves customization and changes to any fields.  Note that reloading any defaults does not take effect until  Save is clicked.

#### To remotely access a device:

- 1. In the portal, go to Secure Remote Access > Settings > Unattended Access Settings and select menu Gateways.
- 2. Click **Computers (n)** for the gateway connected to the device.
- 3. In the list of computers, click the device you wish to connect to (either the Computer or Details column).



4. Click button **Remote Control**:

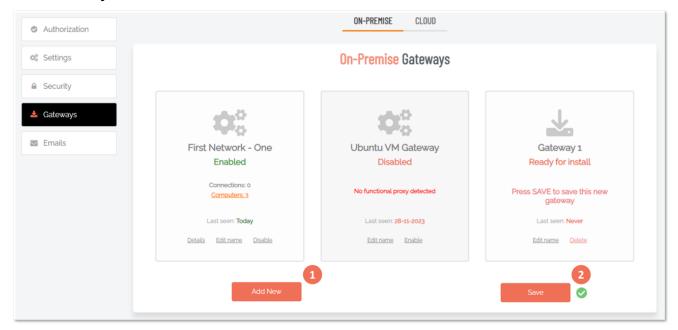


5. Provide your credentials to login remotely:



6. The connection should now appear directly in your browser.

#### **New Gateway**





To add a new gateway:

- 1. From the Gateway Dashboard, click **Add New**.
- 2. Click Save.
- 3. Click link Install gateway (see below).

#### **Back**

Returns to the Dashboard.

#### Install

Once a gateway has been created (and saved), it is ready to be installed, which is initiated by clicking link **Install gateway** from the Dashboard. This opens the **Install** menu for the new gateway.

#### **DOCKER** tab

#### NOTE

Select the technical infrastructure that corresponds to your environment. The Install menu opens by default at the DOCKER tab, but KUBERNETES and CUSTOM are also available.

Docker can be used to host the gateway containers. Use the clipboard button **Copy YML to clipboard** to copy the Docker Compose YML file content to the local computer's clipboard and paste it into a docker-compose.yml file in the root of your Docker host.

#### **IMPORTANT**

We strongly recommend not to save the content to a local file. We use the clipboard to avoid downloading the content to your local machine because it contains your highly sensitive private keys that should never reside outside your Docker host. Once the gateway reports home, this page will disappear forever to protect your private keys.

Setting	Туре	Description
Automatic enrollment	Toggle On   Off Default: <b>On</b>	On - Discovered devices appear immediately in the ACTIVE list and the inventory.  Automatic enrollment is recommended.  Off - Discovered devices appear in the INACTIVE list and devices will need to be enabled one-by-one.
Copy YML to clipboard	Button	Copies the required YML code to the local computer's memory.
See content	Link	Displays the YML code in a scrollable window.

#### **KUBERNETES** tab

Kubernetes is typically highly customized on your side and we therefore only provide a simple yml file compilation in a single file.

Parameter names and values in the Kubernetes settings table are the same as for the DOCKER tab.

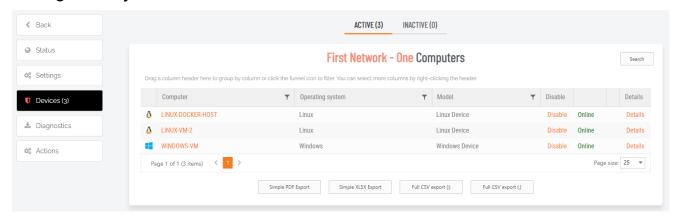


#### **CUSTOM** tab

In a custom setup, you will need the secret keys listed in the yml file. Please contact us for more information, if necessary.

Parameter names and values in the Custom settings table are the same as for the DOCKER tab.

#### **Existing Gateway**



#### **Back**

Returns to the Dashboard.

#### **Status**

Shows the current status of the gateway, including Internet and LAN availability. Use the **Run discovery now** button to renew discovery of connected devices.

#### **Settings**

#### **DISCOVERY** tab

Discovery finds computers and devices on your network where the gateway is installed. It is necessary to run discovery at least once to detect devices on your network. Once initial discovery is complete, you can disable it and enable temporarily when you know there are new devices on the network.

Automatic enrollment means that new devices appear right away in your inventory and are ready for remote control. If this option is off, new devices appear as *Disabled* in the **Devices (n)** menu - disabled devices can be enabled manually one-by-one.

Setting	Туре	Description
Enable discovery	Toggle On   Off Default: <b>On</b>	<ul> <li>On - The discovery service is enabled and will check for new devices at the frequency set in <i>Discovery interval</i>.</li> <li>Off - The discovery service is disabled - no new devices will be found when they are attached to the network.</li> </ul>
Automatic enrollment	Toggle On   Off Default: <b>On</b>	On - Discovered devices appear immediately in the ACTIVE list and the inventory.  Automatic enrollment is recommended.  Off - Discovered devices appear in the INACTIVE list and devices will need to be enabled one-by-one.



Setting	Туре	Description
Discovery interval	Selection Default: <b>15 m</b>	How often the discovery service checks for new devices. There are ten options, ranging from 5 minutes to weekly.
Save	Button	Saves changes made to this setting.

#### **TUNNEL** tab

Cloudflare Tunnel sits between the end user and your gateway to relay traffic.

If you disable the tunnel, you must provide your own on-premise webserver to relay incoming traffic to this gateway. Refer to "What if I don't want to use Cloudflare tunnels?" on page 23 for more information.

When changing this configuration, you can check under **Status** within a minute if the connection is functional.

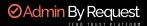
Setting	Туре	Description
Use Cloudflare tunnel	Toggle On   Off Default: <b>On</b>	On - A Cloudflare-hosted tunnel will be created for traffic.  Off - A Cloudflare tunnel will not be used. You must configure your own webserver to relay traffic.
Save	Button	Saves changes made to this setting.

#### IP RESTRICTIONS tab

IP Restrictions limits which IP addresses the user's browser can connect from. This feature can be used for highly sensitive networks. A few things to consider:

- It may be more flexible to set IP address restrictions on your firewall in front of the gateway instead
- Your gateway may be configured to not receive requests from the internet, in which case the user must be on the local network or connect using VPN.
- Your portal users should always be set up with Single Sign-On. Most SSO providers have conditional access, where you can set, for example, countries from which access is allowed.

Setting	Туре	Description
IP restrictions	Toggle On   Off Default: <b>Off</b>	On - Limits the IP addresses from which browsers can connect. Shows the . <i>Allowed IPs</i> field.  Off - There are no IP restrictions. Hides the . <i>Allowed IPs</i> field.
Allowed IPs	Text	A list of IP addresses that are permitted to access the gateway.  Note that no computer will be able to connect to the gateway if <i>IP restrictions</i> is on and there are no entries in the list.
Save	Button	Saves changes made to this setting.



#### Devices (n)

Clicking the drill-down link opens an inventory-style list of all devices accessible via this gateway. Devices can be entered manually or they can be discovered.

Devices can be **ACTIVE** or **INACTIVE** and are displayed in the corresponding tab:

- ACTIVE: able to be connected to via Unattended Access and consume a license.
- INACTIVE: are not able to be connected via Unattended Access and do not consume a license.

Use the Disable/Enable links to make a device active/inactive respectively.

Use the **Search** button to search for devices in large lists and the **Export** buttons to export data in the format shown.

#### NOTE

Gateway computers are those that can be remote controlled through this gateway. Computers appear based on discovery. If computers appear that are not supposed to be made available for remote control, they can be *disabled*, which moves them to the INACTIVE tab. Any computers currently disabled can be *enabled*, which moves them to the ACTIVE tab. Offline computers are computers that were not seen in the last discovery.

#### **Diagnostics**

#### **CALLBACKS** tab

Displays a log-style view of gateway callback events. Includes columns for:

- Time date and time the activity occurred.
- Call the type of event.
- Data the raw data in JSON form.

Rows can be sorted according to a column by clicking the column title (click again to reverse the sort), and data can be filtered by clicking a column's filter icon. Columns can also be rearranged by clicking, holding and dragging a column to another position.

Use the **Refresh** button to get the latest diagnostics.

#### LOGS tab

Click the Request Logs button to retrieve log files. Takes up to 60 seconds.

#### **Actions**

#### PURGE DEVICES tab

Purge devices removes devices that are offline in the **Devices (n)** ACTIVE or INACTIVE tabs.

#### **NOTE**

Purged devices are effectively removed from the inventory, although they will automatically reappear if they are discovered at a later time.



#### **DELETE GATEWAY tab**

Delete gateway deletes the gateway. Any computers in the **Devices (n)** menu that are not discovered by other gateways will not be accessible until a new gateway discovers these.

#### **IMPORTANT**

Deleting a gateway can lead to inaccessible devices.

#### **Emails**

Portal menu: Secure Remote Access > Settings > Unattended Access Settings > Emails

Emails go out when *Require approval* is turned **On** under <u>Authorization</u>. You can create your own email templates here with information specific to your company, such as a Help Desk phone number and custom instructions.

Setting	Туре	Description
Email template	Selection Default: Run As Admin:	Run As Admin   Admin Session: Approved email - Loads a template that advises <i>the user</i> (i.e. requester) that the request for access has been approved.
	Approved email	Run As Admin   Admin Session: Denied email - Loads a template that advises the request for access has been denied without giving a reason.
		Run As Admin   Admin Session: Denied with reason - Loads a template that advises the request for access has been denied and provides the reason.
		<b>Admin notify: New request</b> - Loads a template that advises the administrator (i.e. person who approves or denies) that a request for access is waiting for attention.
		<b>Admin notify: Malware detected</b> - Loads a template that advises <i>the administrator</i> that malware has been detected, including a link to the Auditlog.
Email sender	Text Default: Admin By Request	The email address to be used as the sender for the email. Can be used with custom domains. Use the <b>Email address</b> button to set up custom domains.
	Team	Refer to Email Domain for more information on configuring an email address to be used as the sender for all user notifications.
Email subject	Text Default: Admin By Request	Text that will appear in the subject line of emails.
Get default	Button	<ul> <li>Loads the default <i>Email template</i> for the option selected.</li> <li>NOTE:</li> <li>Default email templates are created by Admin By Request. Contact us if you wish to customize a default email template.</li> <li>Using this button will overwrite any customization you might have done in the <i>Template body</i>.</li> </ul>



Setting	Туре	Description
Email address	Button	Switches to Email Domain in Tenant Settings in the portal, allowing you to use a custom domain as the sender.  This allows sending email from domains other than @adminbyrequest.com.  NOTE:  This is optional, but you cannot add an email sender field of e.g. "tom@mydomain.com" unless you have first set up the custom email domain "mydomain.com" via the Email Domain setting in the portal (Settings > Tenant Settings > Email Domain).
Template body	Formatted text	The body of the email to be sent. Includes three views:
		Design: WYSIWYG view of content. Enter and format body text here.
		<ul> <li>HTML: The same content in HTML format. Can also be edited if necessary and changes will be reflected in Design and Preview.</li> <li>Preview: What the recipient sees. Read only - switch to Design view to make changes.</li> </ul>
		Dynamic content tags
		Tags can be used in the body, which are place holders in curly braces. These are replaced with actual request values when emails are sent.  The following tags are available:
		<ul> <li>{UserFullName} Name of requesting user</li> <li>{UserEmail} Email address of requesting user</li> <li>{UserPhone} Phone number of requesting user</li> <li>{UserReason} Reason the requesting user gave</li> <li>{DenyReason} Admin's reason for denial (only used for denial with reason)</li> <li>{ComputerName} Name of requesting computer</li> </ul>
		<ul> <li>{AdminUserName} Name of administrator receiving notification (only for admin notify)</li> <li>{AuditlogURL} URL to this entry in the auditlog</li> <li>{RequestURL} URL to this entry in requests</li> </ul>
Save	Button	Saves customization and changes to any fields.  Note that reloading any defaults does not take effect until  Save is clicked.

You can set up an email notification to your ticketing system and embed the tags below for dynamic content.



Setting	Туре	Description
Ticket system email	Text	The email address to which emails intended for your ticket system will be sent.  For example: itsupport@mycompany.com
Email sender	Text Default: Admin By Request Team (ID)	The email address to be used as the sender for the email. Can be used with custom domains. Use the <b>Email address</b> button to set up custom domains.
Email subject	Text Default: Admin By Request	Text that will appear in the subject line of emails.
Get default	Button	<ul> <li>Loads the default <i>Email template</i> for the option selected.</li> <li>NOTE: <ul> <li>Default email templates are created by Admin By Request. Contact us if you wish to customize a default email template.</li> <li>Using this button will overwrite any customization you might have done in the <i>Template body</i>.</li> </ul> </li> </ul>
Email address	Button	Switches to Email Domain in Tenant Settings in the portal, allowing you to use a custom domain as the sender.  This allows sending email from domains other than @adminbyrequest.com.  NOTE:  This is optional, but you cannot add an email sender field of e.g. "tom@mydomain.com" unless you have first set up the custom email domain "mydomain.com" via the Email Domain setting in the portal (Settings > Tenant Settings > Email Domain).
Template body	Formatted text	<ul> <li>The body of the email to be sent to the ticketing system. Includes three views:</li> <li>Design: WYSIWYG view of content. Enter and format body text here.</li> <li>HTML: The same content in HTML format. Can also be edited if necessary and changes will be reflected in Design and Preview.</li> <li>Preview: What the recipient sees. Read only - switch to Design view to make changes.</li> <li>Dynamic content tags</li> <li>Tags can be used in the body, which are place holders in curly braces. These are replaced with actual request values when emails are sent.</li> <li>The following tags are available:</li> </ul>



Setting	Туре	Description
		<ul> <li>{ID} Unique auditlog trace no</li> <li>{APIID} ID for looking up this entry through the public Auditlog API</li> <li>{Status} Requested, Approved, Denied, Started, Finished</li> <li>{UserFullName} Name of the requesting user</li> <li>{UserEmail} Email address of requesting user</li> <li>{UserPhone} Phone number of requesting user</li> <li>{UserReason} Reason the requesting user gave</li> <li>{DenyReason} Admin's reason for denial</li> <li>{ComputerName} Name of requesting computer</li> <li>{AdminUserName} Admin approving or denying request</li> <li>{InstallList} Installed programs</li> <li>{UninstallList} Uninstalled programs</li> <li>{AuditlogURL} URL to this entry in the auditlog</li> <li>{RequestURL} URL to this entry in requests</li> </ul>
		Ticket ID  You can find a ticket by its ticket ID using the <b>Search</b> button in the Auditlog.
		Voided text  If a line has one or more tags and all tags in the line are empty, the entire line is automatically removed.

## **Sub Settings**

Portal menu: Secure Remote Access > Settings > Unattended Access Sub Settings

Sub settings will *overrule* the global settings for the users or computers to which they apply. Both users and computers can be in Active Directory groups or organizational units.

If a user or computer hits multiple sub settings, the first in listed order that includes the setting concerned wins.

### Overruling a global setting

As with sub-settings for EPM servers and workstations, SRA sub-settings mirror their respective global settings, with the addition of an **Overrule global settings** switch.

The following table lists the settings and sub-settings structure for both Unattended Access and Remote Support:

Unattended Access	Remote Support
Authorization	Authorization



<b>Unattended Access</b>	Remote Support
Settings	Endpoint
Security	Settings
Gateways	Security
Emails	Emails

Each of these can be on or off, which is controlled by a Global Settings Overrule:

Setting	Туре	Description
Overrule global settings	Toggle On   Off Default: <b>On</b>	On - This setting will overrule its associated global setting.  The global setting fields are then undimmed and become available for editing.
		Off - This setting will not overrule its associated global setting.  The global setting fields remain dimmed.

## Scope for sub-settings

The key to sub-settings is to define and activate their **Scope**.

In the portal sub-settings, Scope is the second-top menu item, immediately below the  ${\it <}$  Back button.

Setting	Туре	Description
Active	Toggle On   Off Default: <b>Off</b>	On - Sub-settings are active for the set named in <i>Sub settings name</i> .  Off - Sub-settings are not active for the set named in <i>Sub settings name</i> .
Sub settings name	Text	The name assigned to this set of sub-settings.
Portal user in group	Text	A list of groups into which users are placed, with multiple groups on separate lines.
Computer in group	Text	A list of groups into which computers are placed, with multiple groups on separate lines.
Computer in OU	Text	A list of organizational units into which computers are placed, with multiple OUs on separate lines.
Network scope	Toggle On   Off One entry for each Gateway Default: <b>Off</b>	On - Scope is active for this gateway.  Off - Scope is not active for this gateway.  Network scope means that these sub settings only apply to the selected gateway combination. A gateway represents an on-premise LAN - if no toggles are on, there is no network scope.
Save	Button	Saves customization and changes to any fields.  Note that reloading any defaults does not take effect until <b>Save</b> is clicked.



#### About sub-settings scope

Note the following:

- *Tiering* can be achieved by setting up a gateway on each tier and set portal user and sub settings network scopes.
- Computer scope does not work for discovered devices, because the server endpoint software is required to collect groups and OUs.
- Entra ID / Azure AD groups require you to set up the Entra ID Connector.
- All scopes must be met. If multiple user groups and computer Organizational Units (OUs) are specified, the user must be member of at least one of the groups and the computer in one of the OU locations.

In the portal text fields, multiple groups or OUs (Organizational Units) must be specified on separate lines. OUs can be specified as either:

- The bottom name, e.g. **Sales**. Any OU named Sales will match.
- Path from root using backslashes, e.g. \US\Florida\Sales.
- The fully distinguished name, e.g. C=US,ST=Florida,OU=Sales.



# **Document History**

Document	Product	Changes
15 January 2024 <b>1.0</b>	15 January 2024 2.0.1	Initial document release
12 February 2024 <b>1.1</b>	12 February 2024 2.0.9	Updated Overview diagram "How does <i>Unattended Access</i> work?"  Added documentation on new environment variable AUTHTOKEN.
20 February 2024 <b>1.2</b>	12 February 2024 2.0.9	Resized images. Fixed broken cross-references. Added "sudo" to docker commands.
10 April 2024 <b>1.3</b>	12 February 2024 2.0.9	<ul> <li>Added settings tables in chapter "Settings":</li> <li>Security &gt; MFA</li> <li>Gateways &gt; Add New &gt; Kubernetes</li> <li>Gateways &gt; Add New &gt; Custom</li> </ul> Updated images and content to highlight that CLOUD tab is not visible until an on-premise gateway is created.
14 May 2024 <b>1.4</b>	24 April 2024 2.1.0	Added "access.work" chapter.
26 August 2024 <b>2.0</b>	August 2024	Renamed "Remote Access" to "Unattended Access" and brought under the new product <i>Secure Remote Access</i> umbrella.  Renamed "access.work" to "Vendor Access".
6 September 2024 <b>2.1</b>	August 2024	Updated section <i>Prerequisites</i> in chapter "Overview".
4 October 2024 <b>2.2</b>	August 2024	Adjusted api URLs in <i>Prerequisites</i> section of chapter "Overview" so they point to the correct data center locations.
29 November 2024 <b>2.3</b>	August 2024	Added process flow steps and diagram to chapter "Unattended Access Overview".
14 February 2025 <b>2.4</b>	February 2025	Removed chapter "Using Vendor Access". Now included in new manual <i>Vendor Access: IT Admin Guide</i> .



Document	Product	Changes
20 February 2025 <b>2.5</b>	February 2025	Updated <i>Prerequisites</i> in chapter "Overview" to increase number of outbound MQTT broker nodes from two to ten for each data center.
24 February 2025 <b>2.6</b>	February 2025	Added cloud and on-premise gateway descriptions to chapter "Unattended Access Overview".  Corrected UDP / QUIC port number.
25 February 2025 <b>2.6.1</b>	February 2025	Corrected UDP / QUIC port number - process step 3, page 5.
22 December 2025 <b>2.7</b>	February 2025	Added how to determine your data location to <i>Data Location</i> section in chapter "Overview".  Added note to chapter "Unattended Access Overview" advising access is available only from Windows clients at this time.

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