BeyondTrust

Remote Support Appliance Interface 6.0 (/appliance)

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Secure Remote Access Appliance Comparison

Secure Remote Access Appliance Overview

BeyondTrust was the first to introduce an appliance-based approach to remote support. Our patented deployment model - the Secure Remote Access Appliance - is a highly secure option for deploying remote support.

The Secure Remote Access Appliance, whether physical or virtual, resides at your facility or data center, under your security measures. This deployment model offers more control over security, giving you a safe way to integrate remote support with identity management and making it easy to export reporting data and videos for a complete audit trail.

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Anatomy of the Secure Remote Access Appliance



Appliance Administration

Web Interface **/appliance** Used for:

- Installing and configuring hardware
- Upgrading BeyondTrust software

Resource

The Secure Remote Access Appliance Administration Guide The Secure Remote Access Appliance uses two administrative web interfaces to isolate hardware administration from user management, */appliance* and */login*.

Pictured: The BeyondTrust B400Appliance

User Administration

Web Interface /login Used for:

- Managing users and workflows
- Reporting on support activity
- Creating and using integrations

Resource

The BeyondTrust Administrative Guide

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Using this Guide

For security reasons, BeyondTrust has separated administration of the appliance from user administration.

Accordingly, this guide focuses exclusively on administration of the Secure Remote Access Appliance. Information on user administration (the /login web interface) can be found in the BeyondTrust Admin Interface.

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Secure Remote Access Appliance Web Interface

This guide is designed to help you administer the Secure Remote Access Appliance through its **/appliance** web interface. The appliance serves as the central point of administration and management for your BeyondTrust sites.

Use this guide only after an administrator has performed the initial setup and configuration of the Secure Remote Access Appliance as detailed in the Secure Remote Access Appliance Hardware Installation Guide at www.beyondtrust.com/docs/remote-support/getting-started/deployment/hardware. Once BeyondTrust is properly installed, you can begin supporting customers immediately. Should you need any assistance, please contact at www.beyondtrust.com/support.

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Log into the Appliance Administrative Interface

After installation of the appliance, log into the Secure Remote Access Appliance administrative interface by going to your appliance's public URL followed by **/appliance** (e.g., http://support.example.com/appliance).

Default Username: admin

Default Password: password

You are prompted to change the administrative password the first time you log in.¹

You may restrict access to the login screen by enabling a prerequisite login agreement that must be confirmed before the login screen is displayed.

BeyondTrust Secure Remote Access Powered by Borngar	Virtual Appliance LOGIN
Login	
Username Password Login	
Cookies must be enable	d to Login

If you wish to enable the prerequisite login agreement, please see "Appliance Administration: Restrict Accounts, Networks, and Ports, Set Up Syslog, Enable Login Agreement, Reset Admin Account" on page 27.

Note: For security purposes, the administrative username and password for the /appliance interface are distinct from those used for the /login interface and should be managed separately.

BeyondTrust Secure Remote Access Powered by Bomgar	Virtual Appliance LOGIN
Login Agreement	
By logging in, you agree to abide by the terms and conditions	s established for the use of this software.
	Accept

¹Passwords must be at least 8 characters in length and include each of the following: an uppercase letter, a lowercase letter, a number and a special symbol.

Status

Basics: View Appliance Details

 STATUS
 USERS
 NETWORKING
 STORAGE
 SECURITY
 UPDATES
 SUPPORT

 BASICS
 HEALTH
 Image: Security
 <t

The **Basics** page gives you information about your Secure Remote Access Appliance and allows you to monitor your system. You can also set your local time to any valid global time zone. The system time is displayed in UTC by default.

	Virtual Appliance (br.v.2)			
Host Hypervisor	VMware			
Serial Number	4C7F1-D823B-6D8BE-E90C8			
System GUID	a5e2c48ddc4a40578a3d2ea0f3a12332			
Base Software Version	5.5.0 (37722-f831f9fa535f20c1101b3bba01579d279db0df8d)			
Service Pack	1			
System Architecture	4			
Firmware Version	5			
Firmware Build Date	Fri Aug 09, 2019 15:25:56 UTC			
System Up-Time	37 days, 21:19			
	0.03, 0.05, 0.00 (0)			
System Time	Mon Sep 16, 2019 13:34:49 UTC			
Time Zone	UTC Y			

fault Site	
This feature is de	precated and will be removed in a future release. To achieve the same functionality, please see our Public Portal documentation here
o Default	Save Changes
i Delauk	Save changes

In nearly all scenarios, this setting can be left unchanged. BeyondTrust discourages multiple sites on one appliance. However, if your setup requires more than one site responding to one IP address, select a default site to respond should someone enter the IP address directly

rather than the domain name. If more than one DNS entry directs to this IP address and you select **No Default**, an error message appears if someone tries to access your site by entering the IP address.

From this page, you can also reboot or shut down your Secure Remote Access Appliance. Although rebooting your appliance is not required, you may want to make a monthly reboot part of your regular

maintenance. You do not need physical access to the appliance in order to perform this reboot.

Please do not do the following unless instructed to do so by

BeyondTrust Technical Support: Clicking the **Reset Appliance to Factory Defaults** button reverts your Secure Remote Access Appliance to its factory state. This completely removes all data, configuration

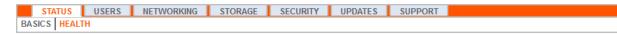
settings, sites, and certificates from your appliance. Once the appliance is reset, it also powers itself off.

Reboot Shut Down	
Reboot This Appliance	
Shut Down This Appliance	

Reset Appliance To Factory Defaults	
Receipt deployment in <u>Exception productions</u> (ADL): Executing the applicable to a balance default state will remove all states, remove all configuration and remove all certificates. After resetting, all custom reflection configurations will be loss. If will be necessary is have presided access to the appliance to reconfigure 8. The appliance will power loss of due to the state of the state o	

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Health: View RS Virtual Appliance Health Details



Note: The Health tab is visible only for sites supported by a RS Virtual Appliance or Cloud Appliance.

The **Health** page allows you to monitor the state of your virtual or cloud appliance. It displays information pertaining to how many CPUs are in use as well as the amount of memory and storage being used. View the **Status** and **Notes** columns for suggestions on how to improve the health of your appliance.

	Value	Status	Notes
CPU	Count: 8 Model: Intel(R) Xeon(R) CPU E5-2697 v3 @ 2.60GHz Speed: 2593.993 MHz Reservation: 0 MHz Limit: Unlimited	1	 Consider allocating a CPU Reservation to this VM of at least 500 MHz to help maintain functionality when the host's CPUs are under contention.
-	Physical: 16051 MiB Used: 15342 MiB Swap Used: 1187.33203125 MiB Reservation: 0 MiB Limit: 3145727 MiB Host Ballooning: 0 MiB Host Swapping: 0 MiB	*	 Memory swapping could indicate that this appliance is undersized for the current workload. Consider allocating a Memory Reservation to this VM for the full amount of physical memory to avoid host swapping, which is detrimental to performance.
Storage	Total Space: 279.998 GiB	~	

Users

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Change Password and Username, Add User



Here, you can add, edit or delete administrative users for the /appliance interface. You can also change an administrator's username, display name, or password. BeyondTrust recommends changing your password regularly to insure protection against unauthorized access.

 Please see "Appliance Administration: Restrict Accounts,
 Networks, and Ports, Set Up Syslog, Enable Login Agreement, Reset Admin Account" on page 27 to set account restriction rules including password expiry and history.

Note: You must have at least one user account defined. The Secure Remote Access Appliance comes with one account predefined, the admin account. You can keep just the admin account, create additional accounts, or replace the admin account.

Username	Display Name	Consecutive Failed Logins		
admin	admin	0	Edit	
adumas	Alexandre Dumas	0	Edit	Delete
epoe	Edgar Poe	0	Edit	Delete
Fotal Users: 3	L			

Username	ggordon
Display Name	George Gordon
Password	New Password
	Save Changes Cancel

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SAML: Set Up Authentication through a SAML Identity Provider

	STATUS	USERS	NETWORKING	STORAGE	SECURITY	UPDATE \$	SUPPORT
U	SERS SAML						

Configure your appliance to allow users to authenticate to the /appliance interface using SAML.

Note: To use SAML authentication, you must have an identity provider such as Okta, OneLogin, Azure AD, or ADFS.

To set up the connection, start with the **Service Provider Settings** section. If your identity provider (IDP) allows you to upload metadata from the service provider (SP), click **Download Service Provider Metadata**. This gives you an XML file that you can upload to your IDP when creating the application. Alternatively, copy and paste the **Entity ID** and **SSO URL** into your IDP.

Tip: The **Entity ID** may be called **Audience URI** in your identity provider.

By default, **SAML Payload Encryption** is disabled, but you may generate or upload a private key to enable it. To have the appliance generate a private key and certificate, select **Generate Private Key** and click **Save Changes**. Then, click **Download SP Certificate** and upload the

Identity Provider Settings				
IDP Metadata	Choose File No file chosen Upload Identity Provider Metadata			
*Enabled				
*Entity ID	L			
*Single Sign-On Service URL				
	*Protocol Binding HTTP Redirect ~			
*Certificate	Choose File No file chosen			
Service Provider Settings				
SP Metadata Download Service Provider Metadata				
*Entity ID	https://tcers.qa.bomgar.com/appliance			
	Note: You should only modify this if the SAML Identity Provider requires a special value.			
SSO URL https://tcers.qa.bomgar.com/appliance/sami/sso				
SAML Payload Encryption None Generate Private Key Upload Private Key				
User Provision Settings				
*Username	Username			
*Display Name	{FirstName} {LastName}			
Email	Email			
NOTE: If multiple SAML attributes are us	sed to populate a single user attribute, surround each SAML attribute name with braces: (samlAttributeName).			
Required				

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generated certificate to your identity provider. To provide the private key and certificate yourself, select **Upload Private Key**, choose the certificate file, and enter its password, if needed. You must upload the same certificate file to your identity provider.

After saving the application in your identity provider, you may have the option to download its metadata. If so, upload that file to your appliance with the **Upload Identity Provider Metadata** button. Alternatively, copy and paste the **Entity ID** and **Single Sign-On Service URL** into your appliance, in the **Identity Provider Settings** section.

Tip: The Entity ID may be called Identity Provider Issuer or Issuer URL, and the Single Sign-On Service URL may be called SAML 2.0 Endpoint.

Protocol Binding determines whether an HTTP POST occurs or whether the user is redirected to the sign-on URL. Leave this set to **HTTP Redirect** unless otherwise required by your identity provider. You must also provide the IDP **Certificate**, which you can download from the IDP.

Under User Provision Settings, map the Username, Display Name, and Email to the corresponding attributes in your identity provider.

Click Save Changes to save the SAML configuration.

Now, on the /appliance login page, users will see a link to **Use SAML Authentication** below the **Login** button. Users who have been assigned to the application created in your IDP can click this link to log in. If they are not already signed into the IDP, they will be redirected to the IDP to log in before being redirected back to /appliance.

Networking

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IP Configuration: Configure IP Address and Network Settings

STATUS	USERS	NETWORKING	STORAGE	SECURITY	UPDATES	SUPPORT
P CONFIGURATI	ON STATIC	ROUTES SNMP				

Companies with advanced network configurations can configure multiple IP addresses on the appliance's ethernet ports. Using multiple ports can enhance security or enable connections over non-standard networks. For example, if employees are restricted from accessing the internet but need to provide off-network support, using one port for your internal private network and another for the public internet allows users worldwide to access systems without breaching your network security policies.

NIC teaming combines your system's physical network interface controllers (NICs) into a single logical interface. NIC teaming operates in "Active-Backup" mode. One of the NICs is used to carry all network traffic. If the link on that NIC is lost for any reason, the other NIC becomes active. Before activating NIC teaming, please ensure that both NICs are connected to the same network segment (subnet) and that you have IP addresses configured on only one of the existing NICs.

Note: If you are using a virtual or cloud appliance environment, the Enable NIC Teaming option is not available.

Although multiple IP addresses can be assigned to each NIC, do not configure either NIC such that it has an IP address that is in the same subnet as an IP address on the other NIC. In this scenario, packet loss occurs with packets originating from the IP on the NIC that does not have the default gateway. Consider the following example configuration:

WARNING: Changes to the network settings should be made ONLY when the device is not in use by other users!				
	eth0			
Details	show details			
MTU	1500			
Management Address	169.254.1.1 fe80:250.56ff.fe88.6773			
DHCP	Enabled			
Static IP Address	10.102.11.41 Add New IP			

- eth0 is configured with the default gateway of 192.168.1.1
- eth0 is assigned with 192.168.1.5
- eth1 is assigned with 192.168.1.10
- Both eth0 and eth1 are connected to the same subnet switch

Given this configuration, traffic from both NICs are sent to the default gateway (192.168.1.1) regardless of which NIC received traffic. Switches configured with dynamic ARP send packets randomly to either eth0 (192.168.1.5) or eth1 (192.168.1.10), not both. When eth0 receives these packets from the switch destined for eth1, eth0 drops the packets. Some switches are configured with static ARP. These switches drop all packets received from eth1 since this NIC does not have the default gateway and is not present in the static ARP table of the gateway. If you wish to configure redundant NICs on the same subnet, us e NIC teaming.

By default, Dynamic Host Configuration Protocol (DHCP) is enabled for your appliance. DHCP is a network protocol that uses a DHCP server to control the distribution of network parameters, such as IP addresses, allowing systems to automatically request these parameters. This reduces the need to manually configure settings. In this case, when checked, an IP address is obtained from the DHCP server and is removed from the pool of available IP addresses.

Note: To learn more about DHCP, please see <u>Dynamic Host Configuration Protocol (DHCP)</u> at https://docs.microsoft.com/en-us/windows-server/networking/technologies/dhcp/dhcp-top.



Click **Show Details** to view and verify transmission and reception statistics for each ethernet port on the appliance.



Under the **Global Network Configuration** section, configure the hostname for your Secure Remote Access Appliance.



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Note: The hostname field does not need to meet any technical requirements. It does not affect what hostname client software or remote users connect to. (To make these changes, see /login > Status > Information > Client Software Is
 Built to Attempt. If the hostname attempted by the client software needs to change, notify Beyond Trust Technical Support of the needed changes so that Support can build a software update.) The hostname field exists primarily to help you distinguish between multiple Secure Remote Access Appliances. It is also used as the local server identifier when making SMTP connections to send email alerts. This is useful if the SMTP Relay Server specified at /appliance > Security > Email Configuration is locked down. In this case, the configured hostname might have to match the reverse-DNS lookup of the appliance's IP address.

Assign a default gateway, selecting which ethernet port to use. Enter an IP address for one or more DNS servers. If DHCP is enabled, the DHCP lease provides you with a default gateway as well as a listing of DNS servers in order of preference. Any statically configured DNS servers listed in the **Custom DNS Servers** field are attempted to be reached first, followed by DNS servers received from DHCP. In the event that these local DNS servers are unavailable, the **Fallback to OpenDNS Servers** option enables the Secure Remote Access Appliance to use publicly available DNS servers from OpenDNS. For more information about OpenDNS, visit www.opendns.com.

Allow your appliance to respond to pings if you wish to be able to test if the host is functioning. Set the hostname or IP address for a Network Time Protocol (NTP) server with which you wish your Secure Remote Access Appliance to synchronize.

Two settings are available in the **Port Number Settings** area: **Server Listen Ports** and **Default URL Ports**. When configuring these, keep in mind that connections made to valid ports may be rejected by network restrictions set in **/appliance > Security > Appliance Administration** and in **/login > Management > Security**. The opposite is also true: connections made to invalid ports are rejected even if such connections satisfy network restrictions.

Port Number S	ettings							
Server Listen Ports								
	HTTP 80							
	HTTPS 443.							
NOTE: This will immediately affect ports that web browsers can contact, but BeyondTrust client applications must be rebuilt to attempt connect ports. Please contact BeyondTrust Support for more information.								
Portault URL Ports These ports are used internally when generating URLs that point back to this appliance. Don't change these unless you know what you are doing!								
	HTTP 80							
	HTTPS 443							
	Save							

The Server Listen Ports section allows you to configure ports for the

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appliance to listen on. You may specify up to 15 comma-separated ports for HTTP and 15 comma-separated ports for HTTPS. Each port may appear only once in any field, and it may appear in only one field, not both. The appliance responds to HTTP connections made to any of the ports listed in the HTTP field, and the appliance responds to HTTPS connections made to any of the ports listed in the HTTP field, and the appliance responds to HTTPS connections made to any of the ports in the HTTPS field. You cannot change the built-in listen ports (80 and 443).

To access the appliance on a given port using a browser requires that you enter the port in the URL of the browser (e.g., support.example.com:8200). Clients downloaded from the appliance attempt connections to the ports listed on the /login > Status > Information page under Client Software Is Built to Attempt. These ports are not configurable from /login or /appliance. To change them, you must contact BeyondTrust Support and have a new update built for your appliance. Once installed, the update sets the Attempt ports as specified by BeyondTrust Support in the parameters of the update.

Default URL Ports are used when generating URLs that point back to the appliance, such as session keys generated from the representative console. When the default ports are blocked on the network (or can be expected to fail for any other reason), you can change the default URL ports to have generated URLs spawn with the ports that you specify. Whatever ports you enter should also be listed in the **Server Listen Ports**; otherwise, the default ports are not connected. For example, if you enter **8080** in the **Default URL Port** field, make sure **8080** is also in the **HTTP** or **HTTPS Listen Port** field. Unlike the listen port fields, you cannot enter more than one port in either of the URL port fields. You cannot enter the same port in both fields.

When adding or editing an IP address, choose whether that IP should be enabled or disabled. Select the network port on which you would like this IP to function. The **IP Address** field sets an address to which your appliance can respond, while **Subnet Mask** enables BeyondTrust to communicate with other devices.

When editing an IP address that is on the same subnet as another IP address for this appliance, choose if this IP address should be **Primary**. When this box is checked, the appliance designates this IP address to be the primary or originating IP address for the subnet. This helps, for

IP :: Edit 10.10	.28.250
*Enabled	V
*Network Port	eth0 v
•IP Address	10.10.28.250
*Subnet Mask	255.255.252.0
Primary	
Access Type	Allow Both
*Required	Save Changes
IP :: Delete	
Delete This IP	1
WARNING: Chan	ges to the network settings should be made ONLY when the device is not in use by other users!

example, to ensure that any network traffic originating from the appliance on that subnet matches and complies with defined firewall rules.

From **Access Type**, you can restrict access over this IP to the public site or customer client. Use **Allow Both** to allow access for both the public site and customer client.

Note: To restrict access to the **/login** interface, set network restrictions under **/login > Management > Security**. To restrict access to the **/appliance** interface, set network restrictions under **/appliance > Security > Appliance Administration**.

When viewing the management IP address¹, the **Telnet Server** dropdown provides three settings: **Full**, **Simplified** and **Disabled**, as detailed below. These settings change the menu options of the telnet server that is available only on this private IP and that can be used in

	ss comes predefined by BeyondTrust Secure Remote Access. It is required in case all other network settings are unusable, you will need to connect to this appliance locally at this IP address. You cannot delete this IP address and should only make changes if you know what you are doing!				
*Enabled					
*Network Port	eth0				
•IP Address	169. 254. 1. 1 🗸				
Subnet Mask	255 255 0.0				
*Telnet Server	Full				
*Required	Save Changes				

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¹Do not delete or modify the management IP address.

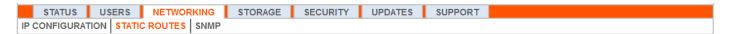
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emergency recovery situations. Since the telnet feature is specifically tied to the built-in private IP, it does not appear under any other configured IP addresses.

Setting	Function		
Full	Enables the telnet server with full functionality		
Simplified	ed Allows four options: View FIPS Error, Reset to Factory Defaults, Shutdown, and Reboot		
Disabled	Completely disables the telnet server		

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Static Routes: Set Up Static Routes for Network Communication



Should a situation exist in which two networks are unable to talk to each other, you can establish a static route so that an administrator with a computer on one network can connect through the Secure Remote Access Appliance to a computer on the other network, provided that the appliance is in a place where both networks can communicate with it individually.

Only advanced administrators should attempt to set up static routes.

Static Routes						
IPv4						
Destination Network	Netmask	Next Hop	Interface			
0.0.0.0	0	10.10.30.1	eth0 💌			
			eth0 💌			
IPv6						
Destination Network	Prefix Length	Next Hop	Interface			
	0	2620:104:6000:30::1	eth0 💌			
eth0 v						
NOTE: This is used for advanced network configuration. Take care to define things correctly. To delete an existing route clear all the fields, and save the changes.						
Save Changes WARNING: Changes to the network settings should be made ONLY when the device is not in use by other users!						

SNMP: Enable Simple Network Management Protocol



The Secure Remote Access Appliance supports Simple Network Management Protocol (SNMP)¹ monitoring for network, hard drive (s), memory, and CPU statistics. This allows tools that collect availability and other statistics via the SNMP protocol to query the Secure Remote Access Appliance for monitoring purposes.

To enable SNMP for this appliance, check **Enable SNMPv2**. This enables a SNMPv2 server to respond to SNMP queries. Enter a value for the **System Location**, the **Read-Only Community Name**, and the **IP Restrictions**, or IP addresses that are allowed to query this appliance using SNMP. Note that if no IP addresses are entered, all hosts are granted access.

Networking :: SNMP	Networking :: SNMP Configuration					
Enable SNMPv2	Enable the SNMPv2 server on this appliance. You will be able to configure server options below.					
•Read-Only Community Name	Enter the community name that the SNMPv2 server should respond to.					
•System Location	Enter the location of this BeyondTrust appliance. This value will be returned in the SNMPv2-MIB::sysLocation OID.					
IP Restrictions	Enter IP addresses that should be allowed to access SNMP on this appliance. Enter the IP Addresses, one entry per line, in the form "IP_Address/Prefix_Length". The Prefix_Length should be an integer. If no entries are provided, all hosts will be granted access.					
•Required	Save Changes					

¹Simple Network Management Protocol (SNMP) is an Internet-standard protocol used for monitoring and managing networked devices (see <u>Simple Network Management Protocol</u>).

Storage

Status: Disk Space and Hard Drive Status



The **Status** page displays the percentage of your Secure Remote Access Appliance's hard drive space that is in use.

If you enable all recording features on your access sites (session and remote shell recordings) or if your overall session count is high, it is common to see a higher amount of disk usage. Note that disk usage of 85-95% is NOT a cause for alarm. If the hard drive should become low on disk space, the appliance is configured to automatically purge the oldest session data and recycle that disk space for new session data.

Specific to the BeyondTrust B300 Appliance

The B300 uses a Redundant Array of Independent Disks to back up your data. RAID 6 is used to allow the appliance to lose up to 2 of its 4 drives without any data loss. In the event of a failure, remove the corrupted drive and contact BeyondTrust for a return maintenance authorization and repair or replacement drive. When you replace the damaged drive, the appliance automatically rebuilds the RAID using the new drive. You do not need to power off the appliance when replacing drives.

Specific to the BeyondTrust B400 Appliance

The B400 has two sets of logical Redundant Array of Independent Disks (RAID) disks. This RAID configuration includes eight physical disk drives configured into two logical RAID drives: A RAID 1 configuration that is logical disk 0, and a RAID 6 configuration that is logical disk 1.

If one of the RAID 1 or RAID 6 physical drives fails, no performance impact or data loss occurs. However, second drive failure in the RAID 6 configuration degrades performance, although it does not cause data loss.

Hardware Failure Notification (B300 and B400 Only)

The LEDs on your appliance also indicate your hard drives' status. Normally, the LEDs will blink to indicate disk activity. Should a hard drive fail, the LED will turn red, and an audible alarm will warn you of the failure. To turn off the alarm before the system is restored, click the **Silence Alarm** button on this web interface.

Physical Disk	
This disk holds all	of the system files and programs.
17% Used	
-	
Physical Disk	
This disk holds all	of the BevondTrust session data specific to your installation. Disk usage of 85 - 95 percent is not fatal, and is in fact common. If this disk approach
capacity the Secur	e Remote Access Appliance will automatically purge the oldest session reporting data to recycle space. To increase the length of time that data is it
on this Secure Re	note Access Appliance, increase the size of this virtual disk.
4% Used	

2% Used	
Overall Health	Optimal
 Diagnostic Ou 	itput
Logical Disk 1	
Disk usage of 85 - reporting data to re	95 percent is not fatal, and is in fact common. If this disk approaches its capacity, the Bomgar Box will automatically purge the oldest sessic cycle space.
1% Used	
Overall Health	Optimal

RAID :: Adapter St	tatus
Silence Alarm	
Battery Present	

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Note: The **Silence Alarm** button will be available regardless of whether or not an alarm is sounding at the time. The button cannot be used as an indicator of whether or not an alarm is active at any particular moment.

Note: To verify whether an alarm is sounding, check the **Health Status** located immediately above the **Silence Alarm** button. If there is an alarm sounding in the same room as the Secure Remote Access Appliance and you want to eliminate the appliance as the source, click the **Silence Alarm** button a few times to cancel any and all possible alarms which might be active.



Encryption: Encrypt Session Data



The **Encryption** section allows you to encrypt session data stored on your Secure Remote Access Appliance. When first encrypting your data, you are limited to 4GB or less of data; however, after the initial encryption, this 4GB limit no longer applies.

If you have not already created a secret store, go to Security > Secret Store to add one.

i	For more information, please see <u>Secret Store</u> .
*	Note: If you have more than 4GB of data to initially encrypt, please contact BeyondTrust Technical Support at <u>www.beyondtrust.com/support</u> .
Stora	age :: Encryption
Stor	rage Encryption Status: Not Encrypted

Encrypt

The storage encryption key will be stored locally. Click here to add a secret store.

Security

Certificates: Create and Manage SSL Certificates

STATUS	USERS	NETWOR	RKING	STORAGE	SECURITY	UPDATES		SUPPORT	
CERTIFICATES	TLS CONFI	GURATION	APPLIA	NCE ADMINIST	RATION EMAI	CONFIGURATIO	DN	SECRET ST	IORE

Manage SSL certificates, creating self-signed certificates and certificate requests, and importing certificates signed by a certificate authority.

Certificate Installation

The Secure Remote Access Appliance comes with a self-signed certificate pre-installed. However, to effectively use your Secure Remote Access Appliance, you also need to create a self-signed certificate at minimum, preferably requesting and uploading a certificate signed by a certificate authority. In addition to the CA certificate request feature, BeyondTrust includes functionality for obtaining and automatically renewing its own TLS certificates from the open Certificate Authority Let's Encrypt.

Let's Encrypt

Let's Encrypt issues signed certificates which are valid for 90 days, yet have the capability of automatically renewing themselves indefinitely. In order to request a Let's Encrypt certificate, or to renew one in the future, you must meet the following requirements:

- The DNS for the hostname you are requesting must resolve to the appliance.
- The appliance must be able to reach Let's Encrypt on TCP 443.
- Let's Encrypt must be able to reach the appliance on TCP 80.



Click Request.

As long as the above requirements are met, this results in a certificate that will automatically renew every 90 days once the validity check with Let's Encrypt has completed.

Note: The appliance starts the certificate renewal process 30 days before the certificate is due to expire and requires the same process as the original request process does. If it has been unsuccessful 25 days prior to expiry, the appliance sends daily admin email alerts (if email notifications are enabled). The status will show the certificate in an error state.

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) IMPORTANT!

Because DNS can apply only to one appliance at a time, and because an appliance must be assigned the DNS hostname for which it makes a certificate request or renewal request, we recommend that you avoid use of Let's Encrypt certificates for failover appliance pairs.

Other CA-Issued Certificates

	Security :: Certificates :: New Cert	ificate		Security :: Other Certificates	
To create a	*Certificate Friendly Name			Select Action 😒 Apply	Create Import
self-signed	•Key	choose 🗸			
certificate or	*Subject Name	Country (1wo ensisteer 150 5166 code)			
a certificate		State/Province			
acentilicate		City (Locality)			
request from		Organization			
		Organizational Unit			
another		Name (Common Name)			
issuer,	Subject Alternative Names	DNS Address V Add Remove	^		
locate the		Remove	~		
Security	Create Certificate Request Create Se	#-Signed Certificate			

:: Other

Certificates section and click **Create**. In **Certificate Friendly Name**, enter a name used to identify this certificate. From the **Key** dropdown, choose to create a new key or select an existing key. Enter the remaining information pertaining to your organization.

Note:

If the certificate being requested is a replacement, you should select the existing key of the certificate being replaced.

If the certificate being requested is a re-key, you should select New Key for the certificate.

For a re-key, all information on the **Security :: Certificates :: New Certificate** section should be the same as the certificate for which re-key is being requested. A new certificate friendly name should be used so that it is be easy to identify the certificate in the **Security :: Certificates** section.

Required information for the re-key can be obtained by clicking on the earlier certificate from the list displayed in the **Security :: Certificates** section.

For a new key or re-key certificate, the steps to import are the same.

Other CA-Issued Certificates

To create a certificate request:

- Locate the Security :: Other Certificates section and click Create.
- In **Certificate Friendly Name**, enter a name you will use to identify this certificate.
- From the **Key** dropdown, choose the **Existing Key** of your *.beyondtrustcloud.com certificate.
- Enter the remaining information pertaining to your organization.
- In the Name (Common Name) field, enter a descriptive title for your BeyondTrust site.

Security :: Other Certificates		Create Import
- Select Action - V Apply		create anjoir
Security :: Certificates :: New Cer	tificate	
*Certificate Friendly Name		
*Key	choose	
*Subject Name	Country (Two character ISO 3166 code)	
	State/Province	
	City (Locality)	
	Organization	
	Organizational Unit	
	Name (Common Name)	
Subject Alternative Names		×
	DNS Address Add Remov	
		-
Create Certificate Request Create	Self-Signed Certificate	

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In the Subject Alternative Names section, enter your BeyondTrust site hostname and click Add. Add a SAN for each DNS
name or IP address to be protected by this SSL certificate.

Note: DNS addresses can be entered as fully qualified domain names, such as access.example.com, or as wildcard domain names, such as *.example.com. A wildcard domain name covers multiple subdomains, such as access.example.com, and so forth.

If you intend to obtain a signed certificate from a certificate authority, click **Create Certificate Request** to create a certificate signing request (CSR). Otherwise, click **Create Self-Signed Certificate**.

To use a CA-signed certificate, contact a certificate authority of your choice and purchase a new certificate from them using the CSR you created in BeyondTrust. Once the purchase is complete, the CA will send you one or more new certificate files, each of which you must install on the Secure Remote Access Appliance.

Security :: Import Certificate	
Certificate or Private Key. Browse No file selected.	
(Optional) Password:	
Upload	
The following certificate and private key formats are acceptable:	
EBF-encoded 2509 Cestification (cm, cm) FBF-encoded 2509 Cestification (cm, cm, cb, 64) FBF-encoded 2509 Cestification (cm, cm, cb, 64) CESF-encoded 270 Cestification (cm, cm, cb, 64) CESF-encoded 70CES #1 Cestification and on pradia two(cp, 12, ph) CESF-encoded Cestification (cm, cm, cb, 64) FEBF-encoded Cestification (cm, cb, 64) FEBF-encoded Cestification (cm, cb, 64)	

To upload certificates or private keys, click **Import**. Browse to the first file and upload it. Repeat this for each certificate sent by your CA. Often, a

CA will not sent their root certificate, which must be installed on your Secure Remote Access Appliance. If the root is missing, a warning appears beneath your new certificate: "The certificate chain appears to be missing one or more certificate authorities and does not appear to terminate in a self-signed certificate".

To download the root certificate for your appliance certificate, check the information sent from your CA for a link to the appropriate root. If there is none, contact the CA to obtain it. If this is impractical, search their website for their root certificate store. This contains all the root certificates of the CA, and all major CAs publish their root store online.

Usually, the easiest way to find the correct root for your certificate is to open the certificate file on your local machine and inspect its "Certification Path" or "Certificate Hierarchy". The root of this hierarchy or path is typically shown at the top of the tree. Locate this root certificate on the root store of your CA's online root store. Once done, download it from the CA's root store and import it to your Secure Remote Access Appliance as described above.

If the intermediate and/or root certificates are different from those currently in-use (or if a self-signed certificate was in-use), please request an update from BeyondTrust Technical Support. BeyondTrust Technical Support will need a copy of the new certificate and its intermediate and root certificates.

Certificates

View a table of SSL certificates available on your appliance.

Select Action 🔽 Apply						Create	Create Import	
	Friendly Name	Issued To	Issued By	Expiration	Alternative Name(s)	Private Key?	Defaul	
	* example.com 1 Warning(s)	* example.com	DigiCert SHA2 High Assurance Server CA	2019-09-18 12:00:00 GMT	dNSName - * example.com dNSName - example.com	Yes	۹	
	Bomgar Appliance 2 Warning(s)	Bomgar Appliance	Bomgar Appliance	2019-10-25 13:50:00 GMT	No Supported Names	Yes		
	DigiCert SHA2 High Assurance Server CA	DigiCert SHA2 High Assurance Server CA	DigiCert High Assurance EV Root CA	2028-10-22 12:00:00 GMT	No Supported Names	No		

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For connections that do not supply a Server Name Indication (SNI) or supply an incorrect SNI, select a default SSL certificate from the list to provide for these connections by clicking the button under the **Default** column. The default SSL certificate cannot be a self-signed certificate nor the default Secure Remote Access Appliance certificate provided for initial installation.



Security :: Other Certificates

Apply

Bor

-- Select Action -- 🗸

Bomgar Appliance

-- Select Action Export Delete

To export one or more certificates, check the box for each desired certificate, select **Export** from the dropdown at the top of the table, and then click **Apply**.

If you are exporting only one certificate, you immediately can choose to include the certificate, the private key (optionally secured by a passphrase), and/or the certificate chain, depending upon each item's availability. Click **Export** to start the download.

BeyondTrust

If you are exporting multiple certificates, you will have the option to export each certificate individually or in a single PKCS#7 file.

When selecting to export multiple certificates as one file, click **Continue** to start the download. With this option, only the actual certificate files will be exported, without any private keys or certificate chains.

To include private keys and/or certificate chains in the export, select individual export and click **Continue** to view all selected certificates. For each listing, choose to include the certificate, the private key (optionally secured by a passphrase), and/or the certificate chain, depending upon each item's availability. Click **Export** to start the download.

Note: The private key should never,or rarely, be exported from an appliance. If it is stolen, an attacker could easily compromise the BeyondTrust site which generated the key. If it does need to be exported, be sure to assign a strong password to the private key.

	owing file formats will be used when exporting. All exported files will be in binary format.
DER	
PKCS	Used when exporting just the server certificate.
r no a	v Used when exporting just the private key.
PKCS	
PKC S	Used when exporting multiple certificates.
r nu al	12 Used when exporting the server certificate and private key, with or without the server certificate chain.
_	
Ce	tificate: support.example.com
🔽 Inc	ude Certificate
	ude Private Key
Pa	sphrase:
Pa	sphrase:
Pa	sphrase:
Inclui	a Curdicale Chain
Inclui CN	**************************************
Inclui CN	Certificate Chain Example Security Gobal CA Root OL-www.certificatesumonty example.com, D=Example Security, C=UIS Example Security 052, CA, OL-www.certificatesumonty.example.com, O=Example Security, C=UIS
Inclui CN	**************************************
Inclui CN	Certificate Chain Economic State (Chain Chain) Economic State (Chain) Conomic State (Chain) Conomic State (Chain) Economic State (C

The following file format	Is will be used when exporting. All exported files will be in binary format.
DER Used when evor	orting just the server certificate.
PKC S#8	
Used when expo	orting just the private key.
	orting multiple certificates.
PKC S#12 Used when expo	orting the server certificate and private key, with or without the server certificate chain.
You have selected multi	ple certificates for export. Would you like to:
Export each selected	d certificate individually, allowing you to optionally include private keys and certificate chains.
O Export all of the sele	rcted the certificates as a single PKCS#7 file, without private keys or certificates other than the ones selected
Export each selected Export all of the sele	d certificate individually, allowing you to optionally include private keys and certificate chains.

Security :: Certificates	: Export
The following file formats will b	be used when exporting. All exported files will be in binary format.
DER	
Used when exporting j PKC S#8	ust the server certificate.
Used when exporting j PKC S#7	ust the private key.
Used when exporting	nultiple certificates.
PKCS#12	he server certificate and private key, with or without the server certificate chain.
Certificate: ".qa.bomgar.)	.com
Include Certificate	
Include Private Key Passohrase:	
Passphrase.	3
	L
Include Certificate Chain	
CN=DigiCert SHA2 High	Assurance Server CA, OU=www.digicert.com, O=DigiCert.lnc, C=US
CN=DigiCert High As	surance EV Root CA, OU=www.digicert.com, O=DigiCert Inc, C=US
	Export
Certificate: DigiCert High	Assurance EV Root CA
Include Certificate	
Include Certificate Include Private Key Include Certificate Chain	Exort

To delete one or more certificates, check the box for each desired certificate, select **Delete** from the dropdown at the top of the table, and then click **Apply**.



Note: Under normal circumstances, a certificate should never be deleted unless it has already been successfully replaced by a working substitute.

To confirm accuracy, review the certificates you wish to delete, and then click **Delete**.

Are you sure you wish to delete the following certificates?						
Friendly Name	Issued To	Issued By	Expiration	Alternative Name(s)	Private Key?	
*.qa.bomgar.com	*.qa.bomgar.com	DigiCert SHA2 High Assurance Server CA	2021-04-30 12:00:00 GMT	dNSName - *.qa.bomgar.com dNSName - qa.bomgar.com	Yes	



Certificate Requests

View a table of pending requests for third-party-signed certificates. Click a certificate request name to view details.

5	Select Action 😪 Apply		
	Subject	Alternative Name(s)	Fingerprint
	CN=support.example.org. OU=Potato Peeling Division, O=The Example Company, L=Ridgeland, ST=MS, C=US	 dNSName - *.example.org 	a23cb5f1ad7a6da3114dab19eeaf07b47590b6a
	CN=support.example.net, OU=Potato Peeling Division, O=The Example Company, L=Ridgeland, ST=MS, C=US	dNSName - *.example.net	a6c2c79523647e106d52d37e2cc262e646bf4f5

The detail view also provides the request data you will give your preferred certificate authority when requesting a signed certificate.

- 🔉
~
~
 ·

Note: If you are renewing a certificate, use the same certificate Request Data that was used for the original certificate.

Security :: Certificates :: View Request		
Subject Name	Chicapport example org Orl-Support Orlingend Orlingend Orlingend Siful Siful Siful C=US	
Public Key	RSA (2048 Bits)	
Alternative Names	dNSName - support example org dNSName - * example org	
Request Data	BOLIC GEFIFICATE BEQUEST Dimensional Control (Control (Contr	

To delete one or more certificate requests, check the box for each desired request, select **Delete** from the dropdown at the top of the table, and then click **Apply**.

•	Certificate Requests	
	Select Action 🗸	Apply
	- Select Action -	Subj
	Delete	-
	CN=support.example.org, OU=Potato Pe	

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To confirm accuracy, review the certificate requests you wish to delete, and then click **Delete**.

Subject	Alternative Name(s)	Fingerprint
CN=support example.net, OU=Support, O=Business Company, L=Ridgeland, ST=MS, C=US	 dNSName - support.example.net dNSName - remote.support.example.net 	c29d393db34db2f9141a2e55bd10a85b08e610c

TLS Configuration: Choose TLS Ciphers and Versions

STATUS USERS NETWORKING STORAGE SECURITY UPDATES SUPPORT CERTIFICATES TLS CONFIGURATION APPLIANCE ADMINISTRATION EMAIL CONFIGURATION SECRET STORE

π

Choose if TLSv1.3, TLSv1.1, TLSv1, and/or SSLv3 should be enabled or disabled. For optimum security, the BeyondTrust web interface always defaults to TLSv1.2 before switching to TLSv1.1, TLS1.0, or SSLv3.

However, some older browsers may not support TLSv1.2. If you disable one or more of the older security protocols, and intend to access your administrative interface from an older browser which does not support the security protocols you have enabled, BeyondTrust will not allow you to log in. Enabling TLSv1.1, TLSv1.0, and SSLv3 allows you to connect to your web interface from any computer, regardless of browser version.

Note that this setting primarily affects connections to the web interface of your Secure Remote Access Appliance. The support tunnel between your computer and your customer's computer defaults to using TLSv1.2 regardless of any other security protocols you have enabled.

Select which Ciphersuites should be enabled or disabled on your appliance. Drag and drop Ciphersuites to change the order of preference. Note that changes to Ciphersuites do not take effect until the **Save** button is clicked.

S :: Confi	guration
LSv1.3 is always enabled	
LSv1.2 is always enabled	
Allow TLSv1.1	0
Allow TLSv1	0
Ciphers	Prom here you can configure the cipher suble you would like to reache the Secure Ramoda Access Appliance to negatisficit when participating in a TLS connection. NETE: The theory open rule assess advance to mucu proper operation of the Secure Ramoda Access Appliance to 1.1.1.2.1.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2
	TIS, ECONE, ECOSA, METH, AKS, 138, 609, 544356
	TIS TERME FEDER METH ARS 200 CEC SWAM
	TILS, FCDIE, FCDSA, WITH ACS, 128, CBC, SWISS
	TILS, ECENE, RSA, NETH, AES, 254, 609, SHA3M
	TIS, ECHIE, RSA, MITH, ARS, 128, GOV, SH4256
	TIS, JCENE, JKA, JUTH, ARS, 256, CRC, SHAMM
	TIS, TEDRE, MAA, MITHEATS, 128, CBC, SHADIA
	TILS, TCDH, CCDSA, MITTH, ALS, 356, CCM, SHAMM
	TLS, TCDI (CCDSA, MITTI, ALS, 128, CCM, SWADSS
	TLS, ECDI, ECDSA, METH, AES, 356, CDC, SWAMM
	This from poose with large coll shares
	C TLS, ECH, ASA, MITH, ASS, 256, 60H, SWA344
	TILS, ECENI, REA, NETH, ARS, 128, CON, SWASSE
	TILS, ECENI, REA, METH, ARS, 256, CEC, SHATEH
	TILS, ECEN, RSA, NETH, ACS, 128, CRC, SWASSE
	TIS, RSA, NETH, ASS, 356, COV, SWAMA
	C TLS, ASA, MITH, AKS, 306, CBC, SHA356
	TIS, RSA, NETH, AES, 128, CDC, SWATSS
	2 TLS, ISA, MITH, ASS, 256, CBC, SHA
	C TLS, ASA, MITH, ARS, 12H, CBC, SHA
	Disabled Cipher Suites
	TILS, ECHIE, MAA, METH, SHES, EDE, CHI, SHA
	TILS TEERE, MA NETH (AIS, 128, CBC, SHA
	TI S, ECONE, ANA, NETH, ANS, 214, CIRC, 5144
	TTLS ECONE ECOSA WETH JOES ECC CHC SHA
	TILS, FODIE, FODIA WITH ACS, 128, CRC, SHA
	TILS, ECONE, ECOSA WETH ARS, 256, CRC, 5HA
	This assa, with lights, the core, swa
	Save

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Appliance Administration: Restrict Accounts, Networks, and Ports, Set Up Syslog, Enable Login Agreement, Reset Admin Account

 STATUS
 USERS
 NETWORKING
 STORAGE
 SECURITY
 UPDATES
 SUPPORT

 CERTIFICATES
 TLS CONFIGURATION
 APPLIANCE ADMINISTRATION
 EMAIL CONFIGURATION
 SECRET STORE

Manage access to /appliance administrative interface accounts by setting how many failed logins are allowed. Set how long an account is locked out after passing the failed login limit. Also, set the number of days a password may be used before expiration and restrict reuse of previously used passwords.

You can restrict access to your appliance's administrative interface by setting network addresses that are or are not allowed and by selecting the ports through which this interface will be accessible.

In the **Accepted Addresses** field, define IP addresses or networks that will always be granted access to /appliance. In **Rejected Addresses**, define IP addresses or networks that will always be denied access to /appliance. Use the **Default Action** dropdown to determine whether to accept or to reject IP addresses and networks not listed in either of the above fields. In the case of overlap, the most specific match takes precedence.

If, for example, you want to allow access to 10.10.0.0/16 but reject access to 10.10.16.0/24 and reject access from anywhere else, you would enter 10.10.0.0/16 in the **Accepted Addresses** field, enter 10.10.16.0/24 in the **Rejected Addresses** field, and set the **Default Action** to **Reject**.

The Secure Remote Access Appliance can be configured to run a STUN service on UDP port 3478 to help facilitate peer-to-peer connections between BeyondTrust clients. Check the **Enable local STUN Service** box to use this functionality.

You can configure your appliance to send log messages to up to three syslog servers. Enter the hostname or IP address of the syslog host server receiving system messages from this appliance in the **Remote Syslog Server** field. Select the message format for the event notification messages. Choose from the standards specification **RFC 5424**, one of the legacy **BSD formats**, or **Syslog over TLS**. Syslog over TLS defaults to using TCP port 6514. All other formats default to using UDP 514.

Account Restrictions	
Account Lockout A	tter 0 Failed Logins
	NOTE: After this number the user will be locked out until the lockout duration expires (max=25). Set this to 0 to never lockout the user.
Accounts are Locked	for 0 Minutes
	NOTE: After this time the account is automatically unlocked (max=25). Set this to 0 to lock the account until an administrator unlocks the account.
Passwords Expin	e in Days
	NOTE: Set this to 0 to never expire passwords (max=365).
Password Hist	
	NOTE: The number of prior passwords that a user cannot use when changing their password (max=10).
	Save Changes
Network Restrictions	
These settings on	y apply to this Appliance Administrative Interface (located at lappliance). This Interface is always physically accessible from the 169.254.0.016 network.
Accepted Addresses	
Rejected Addresses	
negeoten Anneosoo	
Default Action	Accept 🗸
	Enter Network addresses, one per line, in the form "IP_Address/Prefix_Length". The Prefix Length should be an integer.
Examples	
	192.168.0.0/16
	192.168.100.0/24 192.168.100.16/32
	fe80:0:0:0:0:0:0:0/16
	Save Changes
	Sive Changes VARNINC: You are not allowed to save settings that will disable your current IP Address [10.101.8.19].
Port Restrictions	
	WARRING: You are not allowed to asse settings that will disable your current (P Address (16.101.0.10).

This appliance can be configured to run	a STUN service on UDP port 3478 to help facilitate peer-to-peer connections between BeyondTrust Secure Remote Access clients
Enable local STUN service 🖉	3
S	Save Changes

Remote Syslog Server	Message Format	Port	
	RFC 5424 compliant		
	RFC 5424 compliant		
	RFC 5424 compliant	•	
Submit			

However, the defaults can be changed. Secure Remote Access Appliance logs are sent using the local0 facility.

For Cloud-specific settings, please see <u>Appliance Administration: Set Syslog over TLS</u> at https://www.beyondtrust.com/docs/remote-support/getting-started/deployment/cloud/syslog-over-tls.htm.

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Note: When changing or adding a syslog server, an alert is emailed to the administrator's email address. The administrator's information is configured at **Security > Email Configuration > Security :: Admin Contact**.

For a detailed syslog message reference, see the Syslog Message Reference Guide at <u>Syslog Message Reference Guide</u> at <u>www.beyondtrust.com/docs/remote-support/how-to/integrations/syslog/index</u>.

You can enable a login agreement that users must accept before accessing the /appliance administrative interface. The configurable agreement allows you to specify restrictions and internal policy rules before users are allowed to log in.

	NOTE: This setting displays an agreement that the user must accept before he or she can login into the web portal. Login Agreement
Agreement little	Login Agreement
Agreement Text	By logging in, you agree to abide by the terms and conditions established for the use of this software.
	Save Changes

•

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unt for Site: - Select One --

Reset Admin Account

You can choose to select **Reset Admin Account**, which will restore a site's administrative username and password to the default should the login be forgotten or need to be replaced.

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Email Configuration: Configure Appliance to Send Email Alerts

 STATUS
 USERS
 NETWORKING
 STORAGE
 SECURITY
 UPDATES
 SUPPORT

 CERTIFICATES
 TLS CONFIGURATION
 APPLIANCE ADMINISTRATION
 EMAIL CONFIGURATION
 SECRET STORE

Configure your SMTP relay server and set one or more administrative contacts so that your Secure Remote Access Appliance can send you automatic email notifications.

Security :: SMTP Relay Ser	ver
Send From Email Address	
SMTP Relay Server	Enter a single email address. Email alerts from this Secure Remote Access Appliance will be sent with this as the "From" address.
	Enter an open relay SMTP server, or an SMTP server that will accept email to the Admin Contact addresses below
	Port
	25 The SMTP port is typically 25 or 587 for Encryption types: "None", "STARTTLS", and 465 for Encryption type: "TLS".
Encryption	If your SMTP Server supports TLS Encryption, select the desired type None TLS STARTTLS
Trusted Certificate	Upload a new Trusted Certificate
	Browse No file selected.
	If necessary, upload the trusted root certificate (in PEM format) presented by your SMTP server.
	Ignore TLS certificate errors. Only select this if you cannot provide the Trusted Certificate above. This could potentially make you vulnerable to TLS man-in-the-middle attacks.
SMTP Authentication	If your SMTP Server requires authentication, enter a username and password
	Username
	Password
	NOTE: Leave blank to keep the current password.
	Save Changes

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After entering the email addresses for the administrator contacts, save your settings and send a test email to ensure everything works correctly.

Security :: Admin Con	itact
Admin Contact Email	Enter email addresses, one per line, to be notified of important System events
	 Send a test email when the settings are saved. Save Changes

Emails are sent for the following events:

- Syslog Server has been Changed: A user on /appliance has changed the syslog server parameter.
- RAID Event: One or more RAID logical drives is not in Optimum state (Degraded or Partially Degraded).
- SSL Certificate Expiration Notice: An in-use SSL certificate (include either end-entity certificates or any CA certificate in the chain) will expire in 90 days or less.

Secret Store: Store and Access Secrets



Create and manage AWS secret keys to securely store encryption keys and site data.

Secret Stores		
Add Secret Store		
AWS Secrets Manager Add St	xe	
Configured Secret Stores		Enable Local Stor
Name	Count	Actions
	Secrets are being stored locally. Please configure a remo	de secret store.

*

Note: Configuring a KMIP server for an encryption store is no longer supported in version 6.0. If you have a KMIP server configured for your encryption prior to version 6.0, your KMIP server will be migrated to the Secret Store list where you may edit, delete, and test it.

Secret Stores	n se		
Add Secret Store			
AWS Secrets Manage	Add Store		
Configured Secret	Stores		Allow secrets to be stored locally for recover
	Name	Count	Actions
	KMIP Server [)]	1	Edit Delete Test
KMIP Secret Store ::	Edit		
*KMIP Server Hostname	dikmip.qa.bomgar.com		
*Port	5696 \$		
Server CA. Upload the root CA certificate that will be presented by the KMIP server to verify its identity during TLS handshake. Certificate Current Trusted Certificate: DigiCert High Assurance EV Root CA (expires: 2031-11-10 00:00:00 GMT)			
	Choose File No file chosen		
Client TLS Certificate	bundle or a PKCS#12 (PFX) file.		e KMIP server during TLS handshake. You may upload a single PEM
	Current Client Certificate: *.qa.bomgar.com (e	xpires: 2021-04-	30 12:00:00 GMT)
	Choose File No file chosen		
	Passphrase		
Username	someuser		
Username Password	someuser		

To add a store, click **Add Store**, fill out the AWS secret store information, and then click **Save Store**.

Check the **Rotate Access Key** box only if you are not using the credential in any other system.

After a secret store is added, click **Test** to verify connectivity to the AWS server, ensure correct permissions are in place for the user account, and the credentials can access the AWS server.

Access Key ID	AKIAZEPFJEUFEXQ4OTGL		
Secret Access Key			
*Region	us-west-2 🗸		
Rotate Access Key	Automatically rotate access keys every 30 days This should only be enabled if no other system is configured to use these credentials.		
Required	Save Store		
 ListSecrets DescribeSecret 			
DescribeSecret GetSecretValue CreateSecret TagResource UntagResource DeleteSecret UpdateSecret			
DescribeSecret GetSecretValue CreateSecret TagResource UntagResource DeleteSecret UpdateSecret	granted the following AWS promissions if Plotate Access Key is enabled.		

Secret Stores				
Add Secret Store (AWS Secrets Manager Add Store) Configured Secret Stores				
Name	Count		Actions	
AWS Secrets Manager [brown in the secret sec	2	Edit	Delete	Test

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BeyondTrust



For added security, configure your AWS Identity and Access Management (IAM) Policy to limit access to resources matching **BeyondTrust-*** on the following permissions:

- DescribeSecret
- GetSecretValue
- TagResource
- UntagResource
- CreateSecret
- DeleteSecret
- UpdateSecret

For more information on managing AWS IAM Policies, see <u>Managing IAM Policies</u> at https://docs.aws.amazon.com/IAM/latest/UserGuide/access_policies_manage.html.

Note: If you delete the last remote store, a message displays indicating secrets will be moved locally.

Updates: Check for Update Availability and Install Software

The appliance periodically checks for critical updates and emails the admin contact person when updates are available. You can select if you want the updates to install automatically and use the dropdown menu to select a time for the installation.

Updates :: Automatic
This appliance will periodically check for critical updates from BeyondTrust and email the Admin Contact when any are available.
🗹 Automatically install critical updates at this time: D4:00 AM 🔽
Include updates that require rebooting the Secure Remote Access Appliance or interrupt services.
Save

Updates requiring an appliance reboot or the interruption of services are excluded from the automatic update process unless you check the box to include them.

k for undates

BeyondTrust will continue to notify you of the latest builds as they become available. Whenever you receive notification that new update packages have been built for your appliance, clicking the **Check for Updates** button will locate the packages and make them available for you to install.

If multiple software packages have been built for your appliance, each one will be listed separately in the list of available updates. Your new software is automatically downloaded and installed when you click the appropriate **Install This Update** button.

	There are updates available to be	installed
Available Updates		
Remo	xe Support 19.2.1 Premy Memme K82 qs.bomgar.com C Data Lecones 7 C Data Lecones 7 Expense Never	Endar This Updates

If no update packages or patches are available for your Secure Remote
Access Appliance, a message stating "No updates available" is
displayed. If an update is available but an error occurred when
distributing the update to your appliance, an additional message is

I	Updates :: Check
	When BeyondTrust releases updates to your software periodically, use this interface to view available updates and install select updates.
	No updates available.
	Check for updates
	Check for updates

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displayed, such as "An error occurred building your update. Please visit <u>www.beyondtrust.com/docs/index.htm#support</u> for more information."

It is not mandatory to use this **Check for Updates** feature. If your appliance is not internet-facing or if your organization's security policy does not allow for automatic update functionality, you can manually check for updates. Click the **Appliance Download Key** link to generate a unique appliance key, and then, from a non-restricted system, submit that key to BeyondTrust's update server at https://btupdate.com. Download any available updates to a removable storage device and then transfer those updates to a system from which you can manage your appliance.

After downloading a software package, browse to the file from the **Manual Installation** section, and then click the **Update Software** button to complete the installation.

Note: Please be prepared to install software updates directly after download. Once an update has been downloaded, it will no longer appear in your list of available updates. Should you need to redownload a software update, contact BeyondTrust Technical Support.

pdate File:	Browse
	Update Software
ARNING: Updatir	ng the software may disconnect users currently connected to the Appliance.
(TE: To obtain yo	our software update file, copy the Appliance Download Key below and enter it at http://update.bomgar.com.
dates :: Mar	nual Installation
pdate File:	Browse
	Update Software
ARNING: Lindatio	ng the software may disconnect users currently connected to the Appliance.
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TE: To obtain yo	ou soliwale opdate life, copy the Appliance Dowilload Key below and enter it at http://opdate.comgat.com.
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When the BeyondTrust End User License Agreement (EULA) screen appears, fill out the required contact information and click the **Agree-Begin Download** button to accept the EULA and continue the installation. If you have multiple appliances with the same site configuration (either for failover or for ATLAS) you will only need to accept the EULA once.

Note that if you chose to decline the EULA, an error message displays and you will not be able to update your BeyondTrust software.

If you have any issues updating after accepting the EULA, please contact BeyondTrust Technical Support at www.beyondtrust.com/support.

During the installation process, the **Updates** page will display a progress bar to notify you of the overall update progress. Updates made here will automatically update all sites and licenses on your Secure Remote Access Appliance.

If you are installing a software update, logged-in representatives will temporarily lose connections to any support sessions and the representative console; therefore, schedule software updates for nonpeak hours. However, if your update package contains only additional licenses, you can install the update without interrupting representative connections.

Find current information about the latest BeyondTrust updates at https://www.beyondtrust.com/support/changelog.

Please wait while the software is updating.

Note that installation progress may stop for long periods of time while data is being backed up.

You will be automatically redirected when the update is finished.

Do not refresh this page.

Do not reboot the appliance.

If an error occurs, please contact Beyond Trust Support

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1% - Initializing..

SALES: www.beyondtrust.com/contact SUPPORT: www.beyondtrust.com/support DOCUMENTATION: www.beyondtrust.com/docs

Support

Utilities: Debug Network Problems

	STAT	US	USERS	NETWORKING	STORAGE	SECURITY	UPDATES	SUPPORT
ľ	UTILITIES	ADV	ANCED SUP	PORT				

The **Utilities** section can be used for debugging network problems. If you are unable to establish a connection, these utilities may help to determine the reason:

- Test your appliance's **DNS** resolution by performing a lookup of a hostname, or a reverse lookup of an IP address.
- Ping a hostname or IP address to test your appliance's network connectivity.
- Use the Traceroute to view the path that packets take on their journey from the appliance to any external system.
- Use the TCP Connection Test to check connectivity of a specific port on a target IP address or hostname.
- Use the SSL/TLS Connection Test to check connectivity to HTTPS or other TLS remote servers.



BeyondTrust Secure Remote Access Powered by Borngar
STATUS USERS NETWORKING STORAGE SECURITY UPDATES SUPPORT UTILITIES ADVANCED SUPPORT
Util :: DNS Use this DNS utility to test the DNS resolution on this appliance. If you get "Unable to Resolve" errors, check your DNS Server settings on the Networking tab. Hostname or IP Address Resolve
Util :: Ping Use this Ping utility to test the Network connectivity of this appliance. If you get "unknown host" errors, check your DNS Server settings on the Networking tab. If you get 100% packet loss, check that the destination server is configured to respond to Pings, and check your IP settings on the Networking tab. Hostname or IP Address I O IPv6 Ping
Util :: Traceroute Use this Traceroute utility to test the outbound Network routes from this appliance. You can manually configure static routes in the Networking tab. This utility will only try a maximum of 20 hops Hostname or IP Address O IPv4 O IPv6 Trace
Util :: TCP Connection Test Use this TCP Connection Test utility to troubleshoot network connections to remote hosts and ports. Hostname or IP Address Port Number Test
Util :: SSL/TLS Connection Test Use this to troubleshoot connections to remote HTTPS or any other TLS server. Hostname or IP Use of hostname here is encouraged instead of IP. Hostnames will be sent in the handshake in the Server Name Indication (SNI) field. Many TLS servers implement name-based virtual hosting and will send different certificates based on this SNI information, and are more likely to result in a successful connection. Port

SALES: www.beyondtrust.com/contact SUPPORT: www.beyondtrust.com/support DOCUMENTATION: www.beyondtrust.com/docs

Advanced Support: Contact BeyondTrust Technical Support



The **Advanced Support** section gives you contact information for your BeyondTrust Technical Support team and also allows an appliance-initiated support tunnel back to BeyondTrust Technical Support, enabling quick resolution of complex issues.

BeyondTrust™ Support Contact Information
Support Portal https://help.beyondtrust.com/
Advanced Technical Support From BeyondTrust™
Support Code
Access Code
Override Code
ОК
NOTE: A BeyondTrust TM Technical Support representative may ask you to use this section when advanced technical assistance is required. These codes will be provided at that time.

If the **A Support Session with BeyondTrust Corporation in progress** section is visible, BeyondTrust Technical Support has an active session taking place with your Secure Remote Access Appliance. The **Duration** column indicates how long BeyondTrust Technical Support has been in session with your appliance. To stop the session, click **Terminate**, and the tunnel between your appliance and BeyondTrust Technical Support closes.

Advanced Technical Support From BeyondTrust™						
Support Session Initiated to BeyondTrust						
	Support Code Access Code Override Code OK					
	NOTE: A BeyondTrust [™] Technical Support representative may ask you to use this section when advanced technical assistance is required. These codes will be provided at that time.					
Current Support Session						
	Start Time Duration Terminate Connection					
	A Support Session with BeyondTrust Corporation is in progress. 06/13/2019 03:45 PM UTC Terminate					

SALES: www.beyondtrust.com/contact SUPPORT: www.beyondtrust.com/support DOCUMENTATION: www.beyondtrust.com/docs

Secure Remote Access Appliance Comparison

	B400	B300	B200
Support Rep Capacity	Up to 1200 concurrent technicians	Up to 300 concurrent technicians	Up to 20 concurrent technicians running a maximum of three sessions each
Jump Technology	Up to 25,000 Active Jump Clients	Up to 10,000 Active Jump Clients	Up to 1,000 Active Jump Clients
Deployment	1U rack-mountable server Compatible with Atlas Deployments	1U rack-mountable server Compatible with Atlas Deployments	1U rack-mountable server