BIG-IQ™ System: Licensing and Initial Setup

Version 4.2

Table of Contents

Legal Notices....5
Acknowledgments....7

Chapter 1: BIG-IQ System Introduction....13
Overview: BIG-IQ system....14
Additional resources and documentation for BIG-IQ systems....14

Chapter 2: BIG-IQ User Interface....15
About the BIG-IQ system user interface....16
Filtering for associated objects....16
Customizing panel order....16

Chapter 3: Licensing, Initial Configuration, and Upgrades....17
About licensing, initial configuration, and upgrades....18
License activation and initial configuration....18
Manual license activation and initial configuration....19
Changing the time zone for the BIG-IQ system....20
Upgrading a BIG-IQ system license....20

Chapter 4: Default User Accounts and Passwords....23
About default passwords for pre-defined users....24
Changing the default password for the administrator user....24
Changing the default password for the root user....24

Chapter 5: Additional Network Configuration Options....25
About additional network configuration options....26
Configuring an additional VLAN....26

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Chapter 1

BIG-IQ System Introduction

- *Overview: BIG-IQ system*

Overview: BIG-IQ system

The BIG-IQ™ system is a tool that streamlines the management of F5 devices in your network. The functionality offered is dependent on your software license.

Cloud administrators use BIG-IQ Cloud to provide cloud tenants self-service access to shared computing resources such as networks, servers, storage, applications, and services. Cloud resources can be private or public, depending on the customer's requirements. Each tenant has restricted and dedicated access to cloud resources based on a specific user account or tenant role, ensuring that tenants have access only to their own resources. Cloud resources are easily expanded and reallocated as needed, providing flexible resource balancing.

Firewall managers use BIG-IQ Security to manage security firewalls for multiple devices from a central location. Firewall management includes discovering, editing, and deploying firewall configurations, as well as consolidating shared firewall objects. Once a firewall device is designated for central management, it is no longer managed locally unless there is an exceptional need.

Network administrators use BIG-IQ Device to interact with all of the managed F5 devices in their network. This centralized management includes the ability upgrade F5 devices, update configurations, and reallocate licenses as needed.

Additional resources and documentation for BIG-IQ systems

You can access all of the following BIG-IQ™ system documentation from the AskF5™ Knowledge Base located at `http://support.f5.com/`.

Document	Description
BIG-IQ™ Virtual Edition Setup	BIG-IQ Virtual Edition (VE) runs as a guest in a virtual environment using supported hypervisors. Each of these guides is specific to one of the hypervisor environments supported for the BIG-IQ system.
BIG-IQ™ Systems: Licensing and Initial Configuration	This guide provides the network administrator with basic BIG-IQ system concepts and describes the tasks required to license and set up the BIG-IQ system in their network.
BIG-IQ™ Device: Device Management	This guide provides details about how to deploy software images, licenses, and configurations to managed BIG-IP devices.
BIG-IQ™ Cloud: Cloud Administration	This guide contains information to help a cloud administrator manage cloud resources, devices, applications, and tenants (users).
BIG-IQ Cloud: Tenant User Guide™	This guide contains information to help tenants manage applications.
BIG-IQ™ Security: Administration	This guide contains information used to manage BIG-IP® firewalls, policies, rule lists (and other shared objects), and users.
BIG-IQ™ ASM: Administration	This guide contains information used to manage all policies in an enterprise by bringing under central management all the BIG-IP® devices where those policies reside.
Release notes	Release notes contain information about the current software release, including a list of associated documentation, a summary of new features, enhancements, fixes, known issues, and available workarounds.
Solutions and Tech Notes	Solutions are responses and resolutions to known issues. Tech Notes provide additional configuration instructions and how-to information.

Chapter 2

BIG-IQ User Interface

- *About the BIG-IQ system user interface*

About the BIG-IQ system user interface

The BIG-IQ™ system interface is composed of panels. Each panel contains objects that correspond with a BIG-IQ system feature. Depending on the number of panels and the resolution of your screen, some panels are collapsed on either side of the screen. You can cursor over the collapsed panels to locate the one you want, and click the panel to open. To associate items from different panels, click on an object, and drag and drop it onto the object to which you want to associate it.

Filtering for associated objects

The BIG-IQ system helps you easily see an object's relationship to another object, even if the objects are in different panels.

1. In a panel, click the object on which you want to filter.
   The selected object name displays in the Filter field, and the screen refreshes to display unassociated objects as unavailable.
2. To further filter the objects displayed, you can type one additional object in the Filter field, and click the **Apply** button.
3. To display only those objects associated with the object you selected, click the **Apply** button.
   The screen refreshes and the objects previously displayed in a gray font do not appear. Only objects associated with the object you click display, and the object you selected displays below the Filter field.
4. To remove a filter, click the **x** icon next to the object that you want to remove, below the Filter field.

Customizing panel order

You can customize the BIG-IQ system interface by reordering the panels.

1. Click the header of a panel and drag it to a new location, then release the mouse button.
   The panel displays in the new location.
2. Repeat step 1 until you are satisfied with the order of the panels.

Chapter 3

Licensing, Initial Configuration, and Upgrades

- *About licensing, initial configuration, and upgrades*

About licensing, initial configuration, and upgrades

BIG-IQ™ system runs as a virtual machine in specifically-supported hypervisors. After you set up your virtual environment, you can license or upgrade the BIG-IQ system. You initiate the license activation process with the base registration key.

The *base registration key* is a character string that the license server uses to verify the functionality that you are entitled to license. If the system has access to the internet, you select an option to automatically contact the F5 license server and activate the license. If the system is not connected to the internet, you can manually retrieve the activation key from a system that is connected to the internet, and transfer it to the BIG-IQ system.

License activation and initial configuration

You must have a base registration key to license the BIG-IQ™ system. If you do not have a base registration key, contact the F5 Networks sales group (`http://www.f5.com`).

If the BIG-IQ™ system is connected to the public internet, use this procedure to activate its license.

1. Using a browser on which you have configured the management interface, type the following URL syntax where `<management_IP_address>` is the address you specified for device management:
   `https://<management_IP_address>`

   This is the IP address that the BIG-IQ system uses to communicate with its managed devices.
2. Log in to the BIG-IQ system with the default user name `admin` and password `admin`.
3. At the top of the screen, click **System** and **Overview**.
4. In the Setup panel, click the IP address of the BIG-IQ system.
   The panel expands to display additional properties.
5. In the **Base Registration Key** field, type or paste the BIG-IQ registration key.
6. In the **Add-on Keys** field, paste any additional license key you have.
7. For the **Activation Method** setting, select **Automatic**, and click the **Activate** button.
   The BIG-IQ system contacts the F5 Networks licensing server and displays the End User License Agreement (EULA).
8. To accept the EULA, click the **Accept** button.
   The screen refreshes and displays the license details.
9. Click **Properties**.
10. In the **Host Name** field, type a fully-qualified domain name (FQDN) for the system.

    The FQDN can consist of letters, numbers, as well as the characters underscore (_), dash (-), or period (.).
11. In the **Self IP Address** field, type the self IP address of your internal VLAN.

    The self IP address must be in Classless InterDomain Routing (CIDR) format. For example: `10.10.10.10/24`.

    This is the self IP address that managed devices use to communicate with the BIG-IQ system. This address is also referred to as the *discovery address*.
12. To add an additional self IP address, click the + sign, and in the new **Self IP Address** field that the system creates, edit the duplicated self IP address to reflect the additional self IP address that you want to add.

    Once you save this self IP address, you cannot change it.

13. Click **Services**.
14. In the **DNS Lookup Servers** field, type the IP address of your DNS server.
15. In the **DNS Search Domain** field, type the name of your search domain.

    The DNS search domain list allows the BIG-IQ system to search for local domain lookups to resolve local host names.
16. In the **Time Servers** fields, type the IP addresses of your Network Time Protocol (NTP) servers.
17. Click the **Save** button to save your configuration.

Defining DNS and NTP servers for the BIG-IQ system

After you license the BIG-IQ™ system, you can specify the DNS and NTP servers.

Setting your DNS server and domain allows the BIG-IQ system to properly parse IP addresses. Defining the NTP server ensures the BIG-IQ system's clock is synchronized with Coordinated Universal Time (UTC).

1. Log in to the BIG-IQ system with the administrator user name and password.
2. Click **Services**.
3. In the **DNS Lookup Servers** field, type the IP address of your DNS server.
4. In the **DNS Search Domain** field, type the name of your search domain.

   The DNS search domain list allows the BIG-IQ system to search for local domain lookups to resolve local host names.
5. In the **Time Servers** fields, type the IP addresses of your Network Time Protocol (NTP) servers.
6. Click the **Save** button to save your configuration.

Manual license activation and initial configuration

You must have a base registration key to license the BIG-IQ™ system. If you do not have a base registration key, contact the F5 Networks sales group (`http://www.f5.com`).

If the BIG-IQ™ system is not connected to the public internet, use this procedure to activate its license.

1. Using a browser on which you have configured the management interface, type the following URL syntax where `<management_IP_address>` is the address you specified for device management:
   `https://<management_IP_address>`

   This is the IP address that the BIG-IQ system uses to communicate with its managed devices.
2. Log in to the BIG-IQ system with the default user name `admin` and password `admin`.
3. At the top of the screen, click **System** and **Overview**.
4. In the Setup panel, click the IP address of the BIG-IQ system.
   The panel expands to display additional properties.
5. In the **Base Registration Key** field, type or paste the BIG-IQ registration key.
6. In the **Add-on Keys** field, paste any additional license key you have.
7. For the **Activation** method setting, select **Manual** and click the **Activate** button.
   The BIG-IQ system refreshes and displays the dossier in the **Dossier** field.
8. Copy the displayed dossier and transfer it to a system connected to the internet and navigate to the F5 Licensing Server at `https://activate.f5.com/license/` .
9. Copy the displayed dossier and transfer it to a system connected to the internet and navigate to the F5 Licensing Server at `https://activate.f5.com/license/` .

10. Paste the dossier into the **Enter your dossier** text box, or click the **Browse** button to locate it on the system, and click the **Next** button.
11. Copy or save the activation key and transfer it to the BIG-IQ system.
12. The End User License Agreement (EULA) displays.
    When you click **Accept**, the screen refreshes to display the license details.
13. Click **Properties**.
14. In the **Host Name** field, type a fully-qualified domain name (FQDN) for the system.

    The FQDN can consist of letters, numbers, as well as the characters underscore (_), dash (-), or period (.).
15. In the **Self IP Address** field, type the self IP address of your internal VLAN.

    The self IP address must be in Classless InterDomain Routing (CIDR) format. For example: `10.10.10.10/24`.

    This is the self IP address that managed devices use to communicate with the BIG-IQ system. This address is also referred to as the *discovery address*.
16. To add an additional self IP address, click the + sign, and in the new **Self IP Address** field that the system creates, edit the duplicated self IP address to reflect the additional self IP address that you want to add.

    Once you save this self IP address, you cannot change it.
17. Click **Services**.
18. In the **DNS Lookup Servers** field, type the IP address of your DNS server.
19. In the **DNS Search Domain** field, type the name of your search domain.

    The DNS search domain list allows the BIG-IQ system to search for local domain lookups to resolve local host names.
20. In the **Time Servers** fields, type the IP addresses of your Network Time Protocol (NTP) servers.
21. Click the **Save** button to save your configuration.

Changing the time zone for the BIG-IQ system

You must have licensed the BIG-IQ™ system before you can modify the default time zone, if required.

The default time zone for the BIG-IQ system is Pacific Standard Time (PST). If you are in a time zone other than PST, you can change the time zone of the BIG-IQ system so that everything presented with a time stamp, including reports, displays with your local time.

1. Log in to the BIG-IQ command line as the root user.
2. View the time zone files by typing: `ls -laR /usr/share/zoneinfo`
3. Set the time zone using the following command syntax: `tmsh modify sys ntp timezone <timezone_filename>`

   For example, `tmsh modify sys ntp timezone america/new_york`
4. To save the change, type `tmsh save / sys config`

Now everything displayed with a time stamp will reflect your local time.

Upgrading a BIG-IQ system license

Before you can upgrade the BIG-IQ system license, you must perform the following tasks:

- Reactivate your current license to ensure that you have a valid service check date.
- Download the `.iso` file for the upgrade from F5 Downloads to `/shared/images` on the BIG-IQ system. If you need to create this directory, use the exact name `/shared/images`.
- Using the management port, log in to the system and boot into an installation location other than the target for the installation.
- Locate the user configuration set (UCS) in the `/var/local/ucs` directory on the source installation location, and copy the UCS file to another system for safe keeping.

Use this procedure to upgrade a BIG-IQ license.

1. Log in to the BIG-IQ system with the administrator user name and password.
2. At the top of the screen, click **System** > **Overview**.
3. Select License screen and click the **Re-Activate** button.
   The screen refreshes to display the activation keys.
4. Click the **Activate** button.
   The BIG-IQ system license reactivates and the screen refreshes to display license details.
5. Log in to the command line with your root user name and password.
6. Type the following command where *<image name>* is the name of the `.iso` file you downloaded and *<volume name>* is the volume to which you want to install the file on the BIG-IQ system.
   `tmsh install sys software image <image name> volume <volume name> reboot`
7. To transfer your current configuration (for all stored configuration data including self IP addresses, host names, devices discovered, and so forth) to the new license type: `# getdb liveinstall.saveConfig`.
   If the setting is disabled, enable it by typing: `setdb liveinstall.saveConfig enable`
8. Log in to the BIG-IQ system with the administrator user name and password.
9. Navigate to the **Devices** panel.
   Managed BIG-IP devices display a `Discovery Failed Message`.
10. Click the properties icon for each device and:
    a) Type the device's administrator user name and password.
    b) Click the **Save** button.

    The BIG-IQ system rediscovers the device.

Chapter 4

Default User Accounts and Passwords

- *About default passwords for pre-defined users*

About default passwords for pre-defined users

When you initially license the BIG-IQ™ system, it creates the following administrative roles with a default password.

- admin
- root

Changing the default password for the administrator user

You must specify the management IP address settings for the BIG-IQ™ system to prompt the system automatically create the administrator user.

After you initially license and configure the BIG-IQ system, it is important to change the password for the administrator password user from the default password, `admin`.

1. Log in to the BIG-IQ system with the administrator user name and password.
2. At the top of the screen, click **System >Users**.
3. On the Users panel, click the properties gear for **Admin User**.
4. In the **Password** and **Confirm Password** fields, type a new password.
5. Click the **Add** button.

Changing the default password for the root user

You must specify the management IP address settings for the BIG-IQ™ system to prompt the system automatically create the root user.

After you initially license and configure the BIG-IQ system, it is important to change the password for the root user from the default password, `default`.

1. Log in to the BIG-IQ system with the administrator user name and password.
2. At the top of the screen, click **Users**.
3. On the Users panel, click the gear icon for the **root** user.
4. In the **Password** and **Confirm Password** fields, type a new password.
5. Click the **Save** button.

Chapter 5

Additional Network Configuration Options

- *About additional network configuration options*

About additional network configuration options

During the licensing and initial configuration procedures, you configure a single VLAN and associated self IP addresses. This is all the networking configuration required to start managing devices. However, if you find you need additional VLANs, the BIG-IQ™ system provides you with the ability to add them as required.

Configuring an additional VLAN

You must have licensed the BIG-IQ system before you can add a VLAN.

You have the option to configure an additional VLAN after you license and perform the initial configuration of the BIG-IQ system.

1. At the top of the screen, click **System** > **Networking**.
   The Networking screen displays the VLANs and Self IPs panels.
2. To add a new VLAN, hover over the VLANs panel and click the + sign when it appears.
3. In the **Name** and **Description** fields, type a name and description to identify this new VLAN.
4. From the **Interface** list, select the port that you want this VLAN to use.

   The *interface* is a physical or virtual port that you use to connect the BIG-IQ system to managed devices in your network.
5. Click the **Add** button to save this VLAN.
6. Hover on the Self IPs panel and click the + when it appears.
7. In the **Name** and **Address** fields, type the name and the self IP address.
8. From the **VLAN** list, select the VLAN to which you want to associate this self IP address.
9. In the **Description** field, type a description to identify this self IP address.
10. Click the **Add** button to save this self IP address.
11. If you want BIG-IQ Cloud to use this address for discovery, select the VLAN that you added and then click the **Set Discovery Address** button.

Index

A

admin, See administrator
administrator user
  changing password for *24*
  default password *24*
administrator user password
  changing *24*

B

base registration key
  about *19*
BIG-IQ Cloud
  about *14*
  finding documentation for *14*
BIG-IQ Device
  about *14*
  finding documentation for *14*
BIG-IQ Security
  about *14*
  finding documentation for *14*
BIG-IQ system
  about *14*
  about licensing *18*
  reordering panel *16*

C

configuration
  initial setup *18–19*
configuration discovery address
  defined *18*
  initial setup *18–19*
  specified *18*

D

discovery address
  viewing *26*
DNS server
  specifying for the BIG-IQ system *19*
documentation, finding *14*
dossier
  providing *18–19*

F

filtering
  objects *16*

G

guides, finding *14*

I

interface
  configuring for a new VLAN *26*
  defined *26*

L

license
  activating automatically *18*
  activating manually *19*
licensing
  BIG-IQ system *18–19*

M

manuals, finding *14*

N

network
  configuring additional VLAN *26*
  incorporating BIG-IQ systems *18*
  port 443 *18*
networking
  advanced *26*

O

objects
  finding associations *16*

P

Pacific Standard Time zone
  default for the BIG-IQ system *19*
panels
  reordering *16*
password
  changing for administrator user *24*
  changing for root user *24*
pre-defined users
  administrator
    root *24*
PST zone, See Pacific Standard Time zone

R

release notes, finding *14*
required port, for network communication *18*
root user
  changing password for *24*
  default password *24*
root user password
  changing *24*

S

self IP addresses
adding *26*

T

time zone
changing for the BIG-IQ system *19*
default for the BIG-IQ system *19*
setting for BIG-IQ system *20*
specifying a DNS server for the BIG-IQ system *19*

U

user interface
customizing *16*
navigating *16*

V

VLAN
adding *26*