



T-820/1220 Quick Start Guide



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Introduction

Overview

Congratulations on choosing the T-820/1220 appliance from Tufin Technologies, the industry's most comprehensive Security Policy Orchestration solution.

The T-Series appliances are a Tufin-in-a-box solution that provides IT organizations with a quick, robust installation that lowers total cost of ownership. T-Series appliances come pre-installed with Tufin Orchestration Suite Aurora.

Using distributed deployment architecture, Tufin's T-Series appliances enable virtually unlimited scalability - multiple appliances can be connected on-demand at multiple sites, according to network needs. With enterprise-grade memory and SSD drives, the T-Series combines power and flexibility in several models to scale to the needs of mid-size to large enterprises and ensure optimal performance for your organization.

The T820/1220 appliances come pre-installed with TufinOS and a TOS Aurora run file.

This document provides:

- Descriptions of the appliance panels
- A step-by-step guide to getting the appliance and software up and running
- Instructions for restoring factory defaults

Shipping Container Contents

All Tufin appliances are lab-tested rigorously by our network security experts. You will find these items in the shipping container:

Item	Description
Appliance	T-800/1200 appliance
Cables	2 power cables
Documentation	1 page document with a link to this Quick Start Guide Sticker with a link to unique iDRAC credentials
Other hardware	Rails Appliance front bezel

Contact Support

Our worldwide technical services team is available to you through the web, email, or telephone. See <http://www.tufin.com/support> for your preferred mode of communication. We look forward to supporting all of your current and future firewall operation's needs.

About Tufin and Trademarks

Tufin at a Glance

Offices: North America, EMEA, and Asia-Pacific

Customers: More than 2100 in over 50 countries

Leading verticals: Finance, telecom, energy and utilities, healthcare, retail, education, government, manufacturing, transportation, and auditors

Channel partners: More than 240 Worldwide

Technology Partners: Amazon Web Services, BMC, Blue Coat, Check Point, Cisco, F5 Networks, Fortinet, Forcepoint, Juniper Networks, Microsoft Azure, OpenStack, Palo Alto Networks, VMware and more.

Trademarks

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Appliance Hardware

Front View of the System

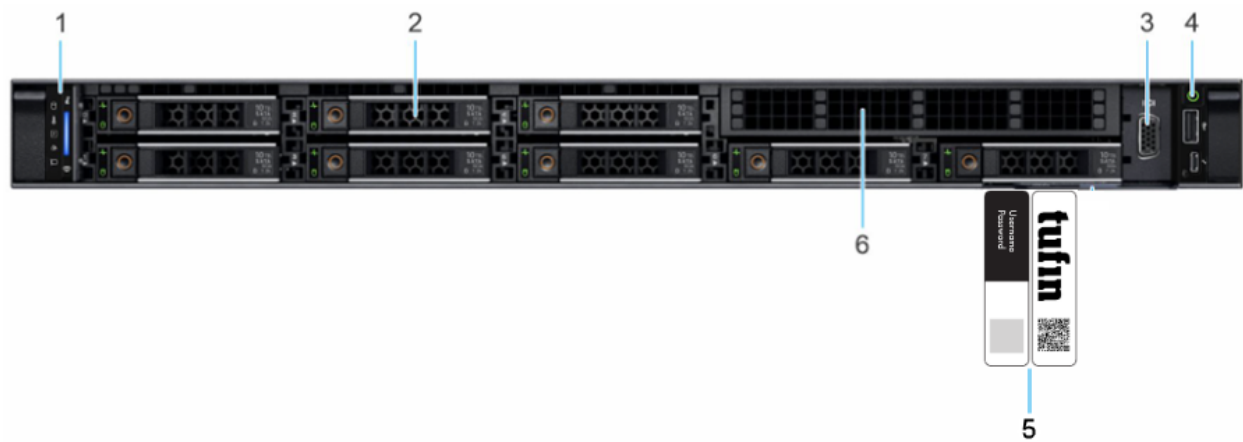
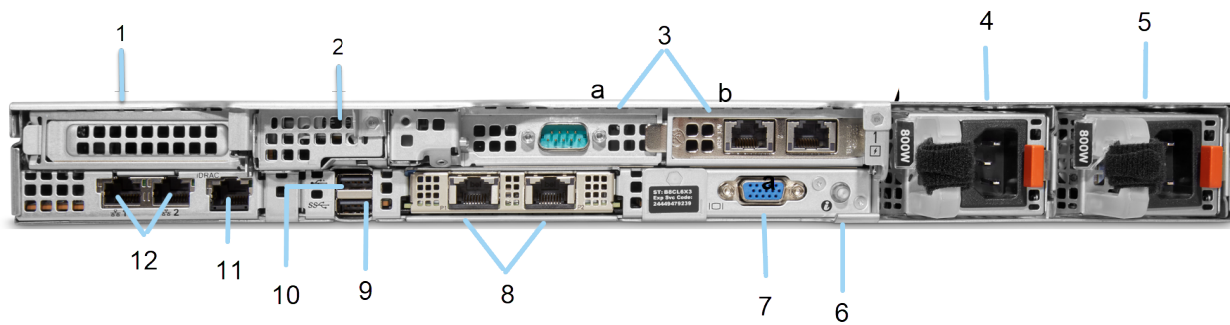


Figure 1: Front view of 8 x 2.5-inch drive system

Item	Feature	Description
1	Left control panel	Contains the system health, system ID, status LED, and the iDRAC Quick Sync 2 (wireless) indicator. <ul style="list-style-type: none">Status LED: Enables you to identify any failed hardware components. There are up to five status LEDs and an overall system health LED (Chassis health and system ID) bar. For more information, see the Status LED indicators section.Quick Sync 2 (wireless): Indicates a Quick Sync enabled system. The Quick Sync feature is optional. This feature allows management of the system by using mobile devices called as OpenManage Mobile (OMM) feature. Using iDRAC Quick Sync 2 with OpenManage Mobile (OMM) aggregates hardware or firmware inventory and various system level diagnostic and error information that can be used in troubleshooting the system. For more information, see iDRAC9 User's Guide.
2	Drive	Enables you to install drives that are supported on your system. The T820 has 2 drives and the T1220 has 6.
3	VGA port	Enables you to connect a display device to the system.
4	Right control panel	Contains the power button, USB port, iDRAC Direct micro port, and the iDRAC Direct status LED.
5	Information tag	The information tag is a slide-out label panel that contains the user name and password for connecting to the appliance.
6	Drive blank	Enables you to install drives that are supported on your system.

Rear View of the System



Item	Feature	Description
1	PCIe expansion card riser 1	Not supported for Tufin devices.
2	BOSS riser	Enables you to connect BOSS card.
3	PCIe expansion card riser 2c	a. Serial port - not supported for installation b. Network interfaces expansion
4	Power supply unit (PSU 1)	Indicates the PSU.
5	Power supply unit (PSU 2)	Indicates the PSU.
6	System identification button	Press the system ID button: To locate a particular system within a rack. To turn the system ID on or off. To reset iDRAC, press and hold the button for 16 seconds Note: To reset iDRAC using system ID, ensure that the system ID button is enabled in the iDRAC setup. If the system stops responding during POST, press and hold the system ID button (for more than five seconds) to enter the BIOS progress mode.
7	VGA port	Enables you to connect a display device to the system.
8	OCP NIC port	This port supports OCP 3.0. The NIC ports are integrated on the OCP card which is connected to the system board.
9	USB 3.0 port	This port is USB 3.0-compliant.
10	USB 2.0 port	This port is USB 2.0-compliant.
11	iDRAC dedicated port	Enables you to remotely access iDRAC. For more information, see iDRAC9 User's Guide .
12	NIC ports	Not supported.
	Serial port	Not supported.

LED Light Indicators

See [Status LED indicators](#) in the Dell EMC PowerEdge R450 Installation and Service Manual.

Rack Installation

See the Dell EMC PowerEdge R450 [rack installation guide](#).



Appliance Fans

The appliance uses the normal airflow configuration in which the airflow direction is from front to back. Cool air intake is on the front and hot air exhaust is on the back.

The table below lists the workload calculations for when the fans are operating full speed and at maximum potential power.

Item	Power Requirement
Input power	490 watts \approx 1671.9 btu/h
Workload	Max potential power @full fan speed
Power supply capacity	800 watts \approx 2729.7 btu/h
Input current	4.5 amps
Airflow	29.4 CFM \approx 13.9 l/s
Sound power	3.8 bels
Weight	18.6 kg \approx 41 lbs
Air temperature rise	30 °C \approx 54 °F

Setting Up the T820/1220

Connect Your Appliance to the Network

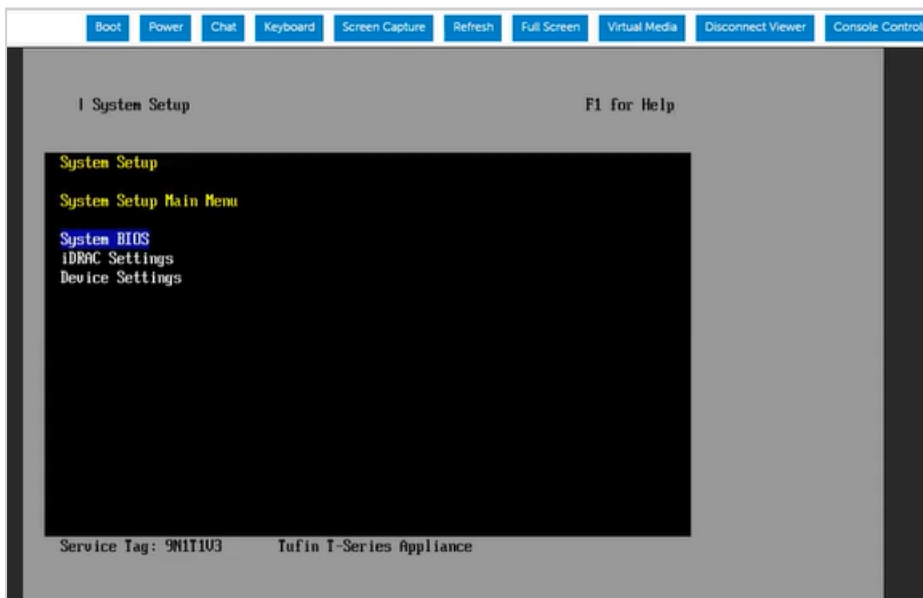
1. Connect the power cable.
2. Boot up the appliance by pressing the **Power** button on the front panel.
3. Connect the appliance to a KVM mouse and keyboard.

The start-up screen is displayed.



4. From the screen, press F10.

The **System Setup** screen appears.



5. If you intend to use remote access now or in the future, select **iDRAC Settings**. Otherwise select **Device Settings**.
6. Select User Configuration.
The predefined IP address (192.168.1.100/24) appears.
7. Change the IP address to your desired value. This must be done before you connect the appliance to the network. The IP address is required for iDRAC connectivity.

8. Connect the appliance to the network via one of the [NIC ports](#). Only one connection is supported for production traffic.
9. To set up serial connection through iDRAC see the Configuring BIOS for Serial Connection procedure in [iDRAC9 User's Guide](#).

Configuring Remote Access

After you connect your appliance to the network, we recommend that you also configure Integrated Dell Remote Access Controller (iDRAC).

iDRAC is a remote server management controller that allows you to securely access your Tufin appliance from any location. It enables you to upgrade TufinOS or TOS on the appliance without having to physically access the server as well as deploy, manage, configure, and troubleshoot from any location.

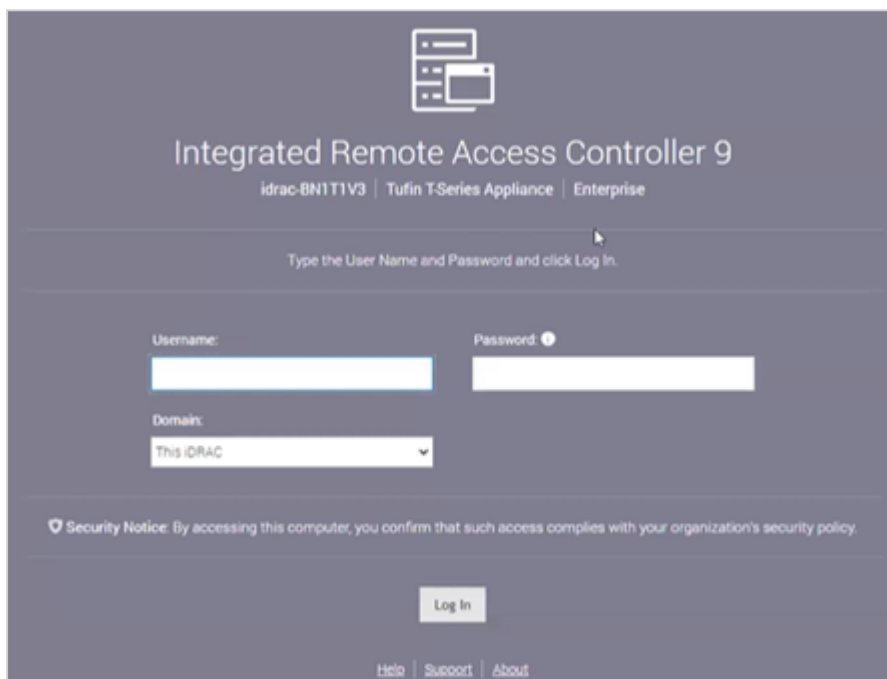
Set up iDRAC

Prerequisites

See the Dell iDRAC user guide for required ports and services [here](#).

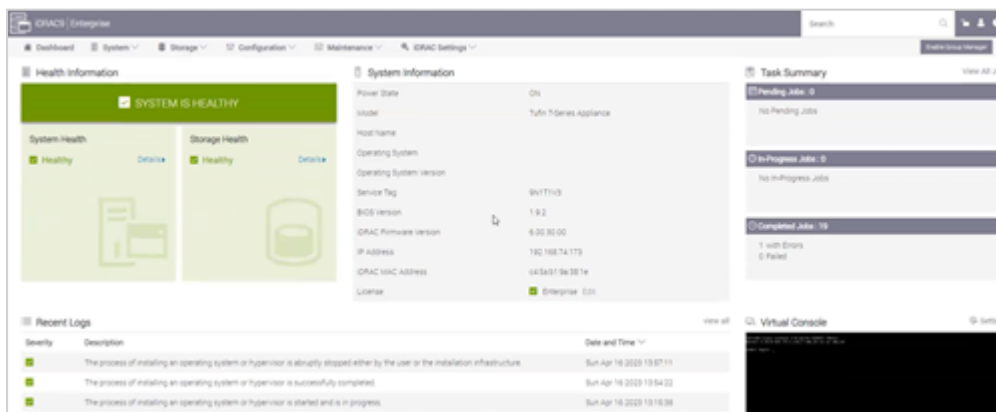
1. In your browser, navigate to the application IP address that you defined in the [Connect Your Appliance to the Network](#) procedure.

The Integrated Remote Access Controller 9 screen displays.



2. Scan the sticker found on your Tufin appliance to view your root user and randomized password.
3. Enter your credentials.

The iDRAC9 interface displays.



Use the iDRAC interface to:

- Monitor the health of your system
- Access your appliance's Virtual Console

For more information, see [iDRAC9 User's Guide](#).

Installing and Configuring TOS Aurora



This procedure is only relevant for versions R22-2 and above. If you are using a previous version, contact Tufin Support.

You must install the version of TOS Aurora that is found on your appliance before upgrading to any later version of TOS Aurora.

Network Requirements for TOS Aurora

Before you install TOS Aurora, ensure the following network requirements:

- Allow access to the [required ports and services](#).
- Dedicate a 24-bit CIDR subnet on your network to TOS Aurora for internal use. It must not overlap with CIDR 10.244.0.0/16 or with the physical and VIP (Virtual IP) network addresses of your [SecureTrack Aurora servers](#).
- Dedicate two different IP addresses to TOS Aurora:
 - The virtual IP (VIP) that will serve as the external IP address used to access TOS Aurora from your browser and from devices that send it data. The VIP will not be needed in the installation, except in the last step - the installation command.
 - The physical network IP that will serve as the internal IP address used by the administrator for CLI commands and this is the one you will use in all other steps of the installation.
 - If additional nodes are subsequently added to the cluster, each node will require an additional dedicated physical network IP. The VIP and all the physical network IPs must be on the same subnet.

Configure the Appliance

1. Reconfigure TufinOS

- Open a command line using SSH to the IP address of the first network interface (if you have not changed it: 192.168.1.100).
- Log in as **tufin-admin** with password **admin**
You are prompted to change the default password when you first log in.
- Reboot the appliance.
- Reconnect to the appliance (steps 1a-1b).
- To install TOS Aurora, run the following commands:

```
screen -S install
```

```
cd /opt/misc
```

```
sudo sh <filename>
```

The installation file is in /opt/misc.

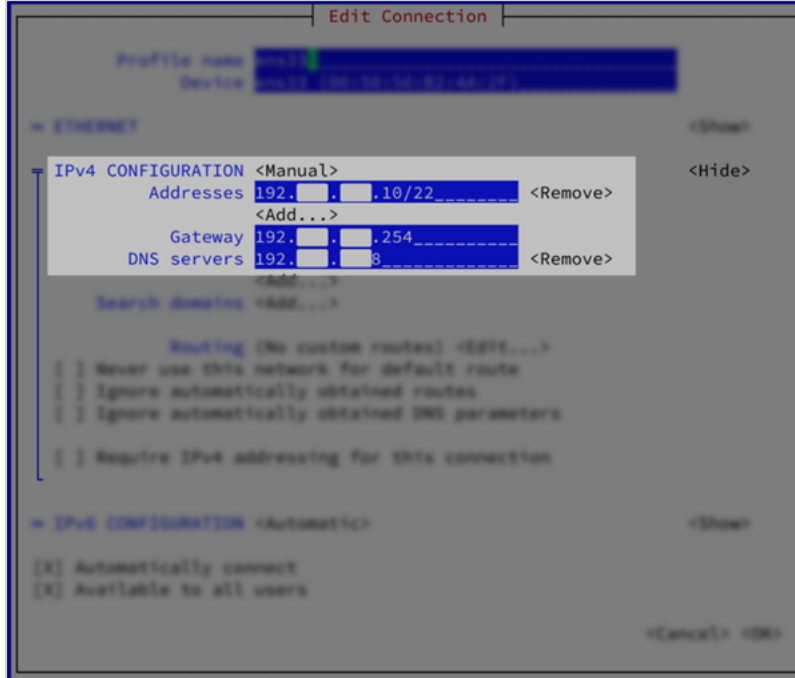
2. Configure the appliance for TOS Aurora

- To access the appliance with Mozilla Firefox or Google Chrome, browse with **https** to the IP address of the first network interface. If you have not changed the IP address, browse to **https://192.168.1.100**.
- Accept the certificate.
- The login window appears. Log in as **admin** with password **admin**, and click **Login**.
You are prompted to set a new password.
- Find the first network interface.

```
sudo /opt/tufinos/scripts/network_interface_by_pci_order.sh |
```

```
awk -F '=' ' /NET_IFS\[0\]/ { print $NF }'
```

- e. Configure the IP address and DNS, where <Interface Name> is the name of the first network interface. For example: eno1239np0.
- f. Run the command `sudo nmtui edit <Interface Name>`.



In the window, set the parameters as follows:

- Set IPv4 CONFIGURATION to **Manual**.
 - Set Addresses to the internal machine IP together with the chosen subnet.
 - Set Gateway and DNS Servers to the IPs used by your organization.
- g. Restart the network service.

```
systemctl restart NetworkManager.service
```

Install TOS Aurora

See the Tufin Knowledge Center for instructions on installing TOS Aurora.

- [USB installation](#)
- [iDRAC installation](#)

Check for Updates

In the [Release Notes Knowledge Center](#), you can review the release notes for every version of TufinOS and TOS Aurora.

- For each version of TufinOS, see the **Compatibility and Requirements** page for a list of supported TOS Aurora versions.
- For each version of TOS Aurora, the Release Notes include resolved issues, deprecated features, the supported upgrade paths, and instructions for upgrading. For example, see [this page](#) for TOS Aurora R23-1.

Upgrade TufinOS

Although your appliance comes with TufinOS preinstalled, you may need to reinstall it if something changed with your hard drives - data was corrupted or hardware was replaced.

We recommend that you use iDRAC to install TufinOS on your appliance.

Upgrade TOS Aurora

To upgrade your version of TOS Aurora, see [Upgrade From TOS Aurora](#).

Upgrade TOS

The T-820/1220 Tufin appliance comes with TOS R23-1 PGA1.0.0 pre-installed.

To upgrade your appliance to a newer version, see [Upgrade From TOS Aurora](#) in the Tufin Knowledge Center.

Restoring Factory Defaults



Warning! Restoring factory defaults will delete all information on the appliance including database records, backup files and logs.

We recommend you contact Tufin Support before restoring factory defaults.

You can restore the factory defaults on the appliances by uploading the appliance image via iDRAC.

Restore Default Settings

1. Back up the Tufin Orchestration Suite (TOS) database.

- a. Create a backup of TOS:

```
# sudo tos backup create
```

You can continue working while the backup is running

- b. Monitor the status of your backup:

```
# sudo tos backup status
```

When the backup is complete, you will see the file name with a time stamp.

- c. Export the backup:

```
# sudo tos backup export.
```

2. Save the backup file on external storage because the output file will be deleted from the appliance when you restore factory defaults.

3. Verify the TOS version:

```
# sudo tos version
```

You will refer to these numbers when you restore the backup files.

4. Insert the USB flash drive in the USB port.

5. Reboot the appliance by pressing the **Power** button or by typing `reboot`.

The appliance automatically boots from the USB Flash Drive.

6. Before the installation program resets the system, you will be advised that all data will be removed from the appliance. Enter **Continue** to restore factory defaults. TufinOS is installed, after which you are prompted to reboot the appliance. Make sure to first remove the USB flash drive, or the appliance will boot from it again. The appliance reboots with factory default settings.

7. Download and install TOS:

- a. Visit the Tufin Support Download site (<https://portal.tufin.com/aspx/TechnicalDownloads>).

- b. Download the same version of TOS that you received with your appliance.

- c. Copy it to the `/opt` partition on your appliance.

- d. Log onto the appliance command line as **tufin-admin** with the new password that you created.

- e. Navigate to the `/opt` directory. The installation file name is in the following format:

```
tos_<TOS_version#>-<TOS_release_type>-final.run
```

For example:

```
tos_21-1-pga-final.run
```

```
tos_21-3-phf1.0.0-final-2390.run
```

- f. Follow the instructions to [install TOS](#).

8. (Optional) To restore the databases from the backup file, see [Backup and Restore](#).



Deleting Your Data

If you are returning a loaned appliance, which was used for evaluation, and want to delete your data, run the following commands:

```
$ sudo rm -rf /opt/tufin/  
$ sudo rm -rf /opt/tos/  
$ sudo rm -f $(which tos)
```