

Running TargetTrack 4 on a VM

A Technical Application Note from Doppler Systems

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1.0 Introduction

TargetTrack 4 is Doppler Systems' latest map-based radio direction-finding software. This application note provides step-by-step guidance for installing and running TargetTrack 4 on a virtual machine (VM).

The procedures described in this document are based on a VM hosted in Microsoft Azure; however, similar steps should apply to other virtual machine platforms with minor adjustments.

2.0 Installation of TargetTrack 4

To install TargetTrack 4:

1. Download the installation software from our [website](#).
2. Copy the downloaded file to the virtual machine and unzip it.
3. Run the program named Doppler.
4. Click the **Install TargetTrack 4** button and follow the on-screen prompts to complete the installation.

Before launching TargetTrack 4, you must configure the VM network to receive UDP audio from the direction finder, as described in the next section.

3.0 Adding a port rule to receive UDP audio

To allow the virtual machine to receive UDP audio data from the direction finder, you must create an inbound port rule:

1. In the Azure portal, navigate to your VM's **Overview** page.
2. Select **Network settings** from the left-hand menu.
3. Scroll down to the **Inbound port rules** section.

Click **Create port rule**, then select **Inbound port rule**, as shown in the screenshots below.

Enter the required configuration values in the dialog box.

- If the direction finder uses a static IP address, you may enter its IP address in the **Source** field to restrict access.
- Otherwise, select or type Any.

Click **Save** to apply the rule.

Microsoft Azure portal screenshot showing the 'DopTest | Network settings' page. The page displays details for a network interface named 'doptest732_z1', including its public IP address (20.51.109.74) and associated network security group 'DopTest-nsg'. A red box highlights the '+ Create port rule' button in the top right corner of the 'Rules' section. Below this, a table lists existing inbound port rules, including RDP (port 3389) and various firewall rules.

Prio...	Name	Port	Protocol	Source	Destination
	Inbound port rules (4)				
300	RDP	3389	TCP	Any	Any
65000	AllowVnetInBound	Any	Any	VirtualNetwork	VirtualNetwork
65001	AllowAzureLoadBalancerIn...	Any	Any	AzureLoadBalancer	Any
65500	DenyAllInBound	Any	Any	Any	Any

Diagram showing a dropdown menu for 'Create port rule'. The menu is open, showing 'Inbound port rule' and 'Outbound port rule' options. A red box highlights the 'Inbound port rule' option.



Doppler_Audio

DopTest-nsg



Source ⓘ

Any

Source port ranges * ⓘ

*

Destination ⓘ

Any

Service ⓘ

Custom

Destination port ranges * ⓘ

10000-10010

Protocol

- Any
- TCP
- UDP
- ICMPv4
- ICMPv6

Action

- Allow
- Deny

Priority * ⓘ

310

Name

Doppler_Audio

Save

Cancel

Give feedback

4.0 Running TargetTrack 4

After installation is complete and the inbound port rule is configured, TargetTrack 4 can be launched on the virtual machine. The application will then be able to receive and process the UDP audio stream from the direction finder.

If you encounter any issues, please contact Doppler Systems Technical Support for assistance.