

Teams

- Performance Optimizations

Performance Optimizations

AV Exclusions

Universal

Path	Wildcard	Description
<code>%PROGRAMFILES%\WindowsApps\MSTeams*\ms-teams.exe</code>	Teams Version	Main Teams Client
<code>%PROGRAMFILES%\WindowsApps\MSTeams*\msteams_autostarter.exe</code>	Teams Version	Teams Autostart for User Logon
<code>%PROGRAMFILES%\WindowsApps\MSTeams*\ms-teamsupdate.exe</code>	Teams Version	Teams Updater
<code>%PROGRAMFILES%\Microsoft\EdgeWebView\Application*\msedgewebview2.exe</code>	EdgeWebView Version	WebView (Teams Renderer)

It is recommended to exclude them both as File and Process

Disable GPU Rendering

Depends on System. Might reduce Performance!

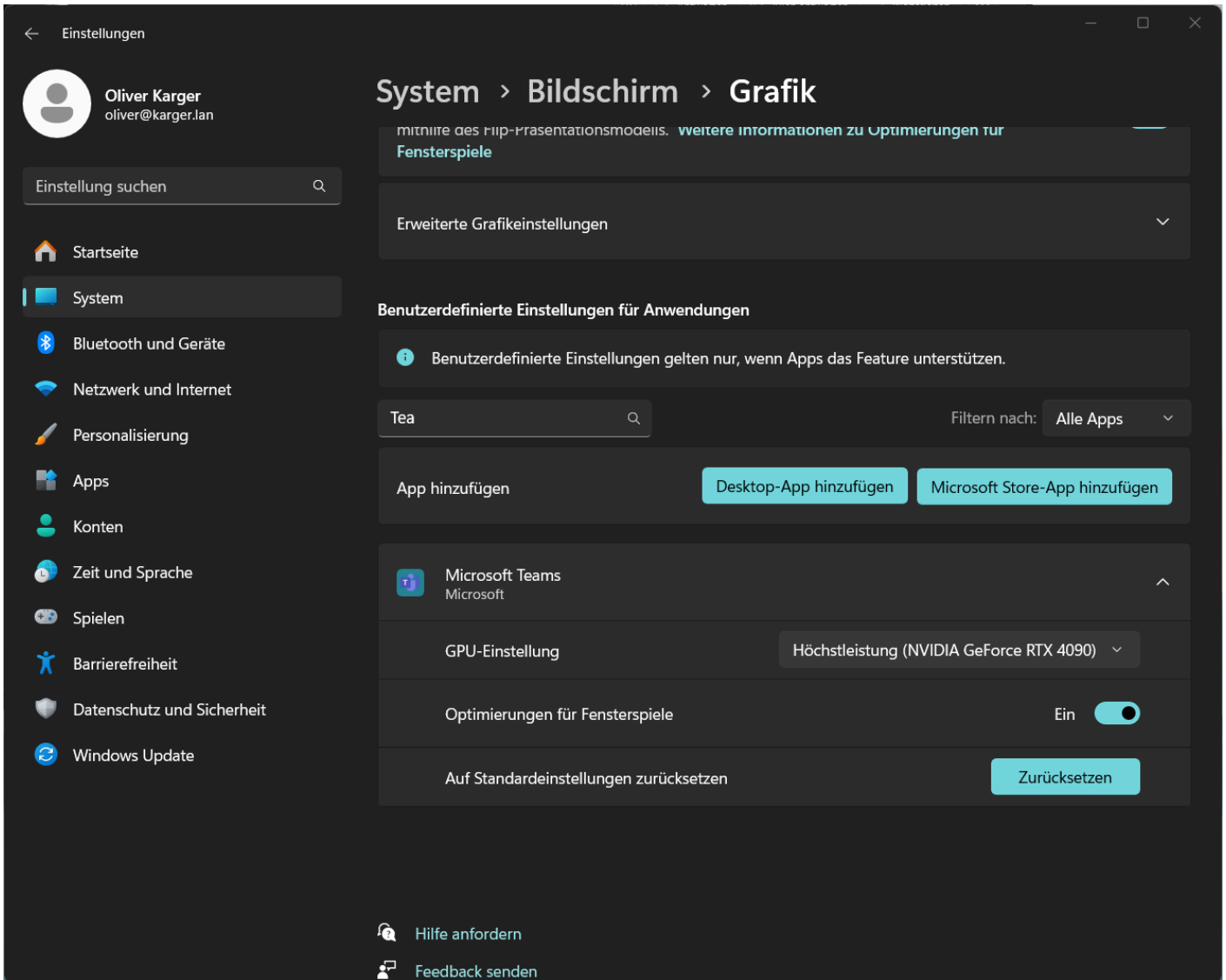
Edit File: `%APPDATA%\Microsoft\Teams\desktop-config.json`

Search for `disableGPU` and set to `true`

Force GPU Rendering

Depends on System. Might reduce Performance!

1. Open *Settings* (Windows-Key + i)
2. Go to *System - Display - Graphics*
 1. Either search for Teams, or click *Add Microsoft Store App* and select *Microsoft Teams*
3. Select GPU Setting "Max Performance (<Your-GPU>)



Enable HMSS

High Motion Screen Sharing increases the Framerate of the Teams Screen Sharing System and the Application to reduce the Lag introduced by itself.

Press: **CLTR+ALT+SHIFT+T**

This can only be done while in a Meeting.

This Acts as a Toggle. Once to activate, another to deactivate

ANC / HFA

If Active Noise Cancellation and/or High Fidelity Audio is enabled, this can significantly reduce Performance of Microsoft Teams.

One specific Case, when using a ANC-capable Headset and having ANC enabled for both the Headset itself and Teams, this can lead to a race-condition between the two Systems that will impact performance while in Meetings.

It is recommended, to only use one ANC System and disable HFA if not necessary

Firewall


Done on a FortiGate 60E

Define a new Service for Microsoft Teams with Audio/Video Ports

Name

Comments 0/255

Service Type **Firewall** Explicit Proxy

Color 

Show in Service List

Category

Protocol Options

Protocol Type

Address **IP Range** FQDN

Protocol	Start Port	End Port	Action
UDP	50000	50019	✕
TCP	50000	50019	✕
UDP	50020	50039	✕
TCP	50040	50059	✕

Specify Source Ports

Create a Traffic Shaping Policy for this Service. Assign your necessary Interfaces and the created Service

Name

Status Enabled Disabled

Comments 0/255

If Traffic Matches:

Source interface	<input checked="" type="checkbox"/> LAN (internal) <input type="checkbox"/>	<input type="checkbox"/>
	<input checked="" type="checkbox"/> wan1 <input type="checkbox"/>	<input type="checkbox"/>
	+	
Outgoing interface	<input checked="" type="checkbox"/> LAN (internal) <input type="checkbox"/>	<input type="checkbox"/>
	<input checked="" type="checkbox"/> wan1 <input type="checkbox"/>	<input type="checkbox"/>
	+	
Source	<input checked="" type="checkbox"/> all <input type="checkbox"/>	<input type="checkbox"/>
	+	
Destination	<input checked="" type="checkbox"/> all <input type="checkbox"/>	<input type="checkbox"/>
	+	
Schedule	<input type="checkbox"/>	
Service	<input checked="" type="checkbox"/> Microsoft Teams <input type="checkbox"/>	<input type="checkbox"/>
	+	
Application ⓘ	+	
URL Category	+	

Then:

Apply shaper	<input checked="" type="checkbox"/>	
Shared shaper	<input checked="" type="checkbox"/>	<input type="text" value="high-priority"/>
Reverse shaper	<input type="checkbox"/>	
Per-IP shaper	<input type="checkbox"/>	
Assign shaping class ID	<input checked="" type="checkbox"/>	
Traffic shaping class ID		<input type="text" value="Microsoft Teams (2)"/>