

Performance Optimizations

AV Exclusions

Universal

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

It is recommended to exclude them both as File and Process

Disable GPU Rendering

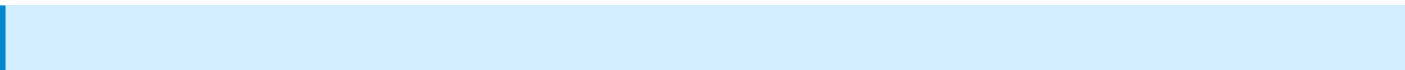
Depends on System. Might reduce Performance!

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

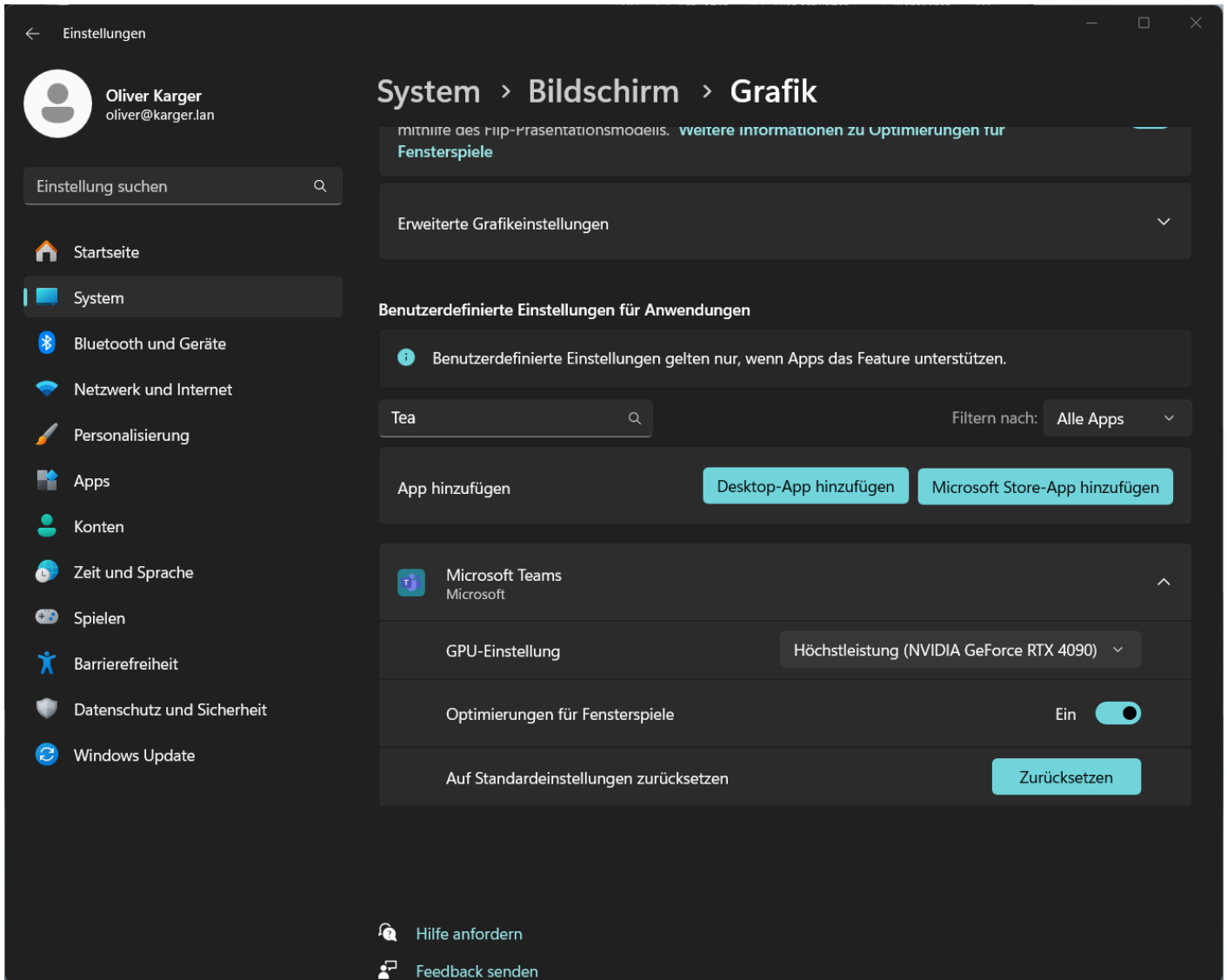
Search for disableGPU and set to true

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	Microsoft Teams		
Comments	Write a comment... 0/255		
Service Type	Firewall Explicit Proxy		
Color	 Change		
Show in Service List	☒		
Category	Uncategorized		

Protocol Options

Protocol Type	TCP/UDP/SCTP			
Address	IP Range FQDN	0.0.0.0		
Destination Port	UDP	50000	-	50019
	TCP	50000	-	50019
	UDP	50020	-	50039
	TCP	50040	-	50059
	Add			

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	🔌 LAN (internal) ✕ 🌐 wan1 ✕ +
Outgoing interface	🔌 LAN (internal) ✕ 🌐 wan1 ✕ +
Source	📄 all ✕ +
Destination	📄 all ✕ +
Schedule	☐
Service	🔌 Microsoft Teams ✕ +
Application ⓘ	+
URL Category	+

Then:

Apply shaper	☒
Shared shaper	☒ high-priority
Reverse shaper	☐
Per-IP shaper	☐
Assign shaping class ID	☒
Traffic shaping class ID	Microsoft Teams (2)