A picture containing table

Description automatically generated

Singapore 2020

Hands On Lab Preparation

**Please complete this preparation by 5 November 2020,**

**since the change will be effective after 24 hours.**

# Prepare Office 365 Tenant

You can skip this if you already have a Office 365 tenant for the lab, this including if you already have following plans:

1. Business Essentials
2. Business Premium
3. Enterprise E1, E3, or E5
4. Developer
5. Education, Education Plus and Education E5

**I need new O365 tenant for development.**

If you don’t currently have an Office 365 account, you can sign up for a [Microsoft 365 Developer Program](https://developer.microsoft.com/en-us/microsoft-365/dev-program?WT.mc_id=M365-MVP-4024516) subscription. It’s *free* for 90 days and will continually renew as long as you’re using it for development activity. If you have a Visual Studio *Enterprise* or *Professional* subscription, both programs include a free Microsoft 365 [developer subscription](https://aka.ms/MyVisualStudioBenefits), active for the life of your Visual Studio subscription. *See* [Set up a Microsoft 365 developer subscription](https://developer.microsoft.com/en-us/microsoft-365/dev-program?WT.mc_id=M365-MVP-4024516).

**Enabling Microsoft Team enabled in my organization.**

If Microsoft Team has not been enabled, you can check the detailed instruction for [enabling Teams for your organization](https://docs.microsoft.com/en-us/microsoftteams/enable-features-office-365?WT.mc_id=M365-MVP-4024516).

**Enabling custom Teams apps and turn on custom app uploading**

**Effective after 24 hours**

Turn on custom app sideloading for your tenant as follow:

1. Login to [**Microsoft 365 admin**](https://admin.microsoft.com) center with your admin credential.
2. Select **Show All -> Teams**
3. Navigate to **Teams apps** -> **Setup Policies** -> **Global (Org-wide default)**
4. Toggle **upload custom apps** to the **on** position.

For complete documentation see, [Manage custom app policies and settings in Microsoft Teams](https://docs.microsoft.com/en-us/microsoftteams/teams-custom-app-policies-and-settings?WT.mc_id=M365-MVP-4024516) and [Manage app setup policies in Microsoft Teams.](https://docs.microsoft.com/en-us/microsoftteams/teams-app-setup-policies?WT.mc_id=M365-MVP-4024516)

# Prepare Ngrok

You can skip this step if you already have Ngrok in your system, otherwise please follow the step.

**I need Ngrok account**

Create Ngrok account in <https://ngrok.com/>

**I need Ngrok binaries**

Download Ngrok binary from <https://ngrok.com/download>

**I never run Ngrok from my laptop**

1. Sign-in to your **ngrok** account
2. Run authentication , by running **ngrok {authtoken}** in command line. For more information, please check here <https://ngrok.com/docs#getting-started-authtoken>
3. Try to run **ngrok http 80** in command line.

# Install Visual Studio Code

Install the latest Visual Studio Code ([https://code.visualstudio.com](https://code.visualstudio.com/?WT.mc_id=M365-MVP-4024516)), Visual Studio Professional or Visual Studio Enterprise from [https://visualstudio.microsoft.com](https://visualstudio.microsoft.com/?WT.mc_id=M365-MVP-4024516)

# Download Microsoft Teams Toolkit

Microsoft Teams Toolkit extension for Visual Studio Code is available in [Visual Studio Marketplace](https://marketplace.visualstudio.com/items?itemName=TeamsDevApp.ms-teams-vscode-extension).

# Install Node.JS

Install Node.JS Long Term Support version from <https://nodejs.org>

# Install Helper Packages

Run following commands

1. Npm install yo gulp-cli typescript generator-teams@preview -global