Project Overview

- Consolidate Common Developer Tasks Into Microsoft Teams
- Create and Manipulate Virtual Machines
- Discover and Run Test Cases
- Consists of Three Components:
  1. AI Chatbot
  2. Microsoft Teams Tab
  3. Microsoft Teams Connector
- Provide a Unified and Familiar Environment for Developers
System Architecture

- Microsoft Azure
- Microsoft Azure
- Visual Studio

Azure Bot Service

- .NET Framework
- Microsoft Teams

Bot

Connector
Virtual Machines Dashboard
Tests Dashboard

Plato Dashboard  Login  Register  Virtual Machines  Tests

Team GM

TestSuspendVirtualMachine
Last ran 10 hours ago by coppers4@gmfuture.net

TestGetVirtualMachine
Last ran 10 hours ago by coppers4@gmfuture.net

Daily Test Runs

- Green: Pass
- Red: Fail

![Pie Chart showing test runs](chart.png)
Asking the Bot for Help

Alex Lepird (MSU) 10:40 PM

gm-plato help

Collapse all

gm-plato 10:40 PM
Here are some things I can do

- create a virtual machine
- delete a virtual machine
- run a virtual machine
- stop a virtual machine

Reply
Creating a VM

Colin Coppersmith (MSU)  11:33 PM

*gm-plato* create a debian virtual machine with 16gb of ram and 4 cores and a 256gb hard drive

I can help you create a virtual machine! Let's get started.

What would you like to name your virtual machine?

Colin Coppersmith (MSU)  11:33 PM

*gm-plato* CoolDebianVM

*gm-plato*  11:33 PM

Would you like to create a *Debian* VM with 16GB of RAM, 4 Cores, and 256GB of hard disk space?

Colin Coppersmith (MSU)  11:33 PM

*gm-plato* yes

*gm-plato*  11:33 PM

OK! Your virtual machine has been created! Click 'start' to start it!

**CoolDebianVM**

**OS:** Debian  **RAM:** 16GB  **Cores:** 4  **Disk Space:** 256GB  **Status:** New
Stopping a Virtual Machine

Team GM > General

Conversations  Files  Wiki  Plato Dashboard  style-sheet  Plato  2 more +

Colin Coppersmith (MSU)  10:44 PM

gm-plato stop a vm

collapse all

gm-plato  10:44 PM
Which virtual machine would you like to stop?

Colin Coppersmith (MSU)  10:44 PM

gm-plato Teddy

gm-plato  10:44 PM
Are you sure you want to stop this virtual machine?

Colin Coppersmith (MSU)  10:45 PM

yes

gm-plato yes

gm-plato  10:45 PM
I've stopped your VM! You can click on the card to view the VM in the dashboard or ask me to perform another task.

Teddy

OS: Ubuntu RAM: 12GB Cores: 12 Disk
Space: 12GB Status: Stopped
Running a Test

Colin Coppersmith (MSU) 10:42 PM
gm-plato run a test

- Collapse all

gm-plato 10:42 PM
What project do you want to run your test on?

Colin Coppersmith (MSU) 10:43 PM
gm-plato Good Project

gm-plato 10:43 PM
What test do you want to run?

Colin Coppersmith (MSU) 10:44 PM
gm-plato TestGetVirtualMachine

gm-plato 10:44 PM
I've ran your test! You can click on the card to view the test in the dashboard or ask me to perform another task.

TestGetVirtualMachine: Failed
Running User: coppers4@gmfuture.net
Date: 4/2/2018 10:44:08 PM
What’s left to do?

• Improve UI/UX of Bot and Dashboard
• Persist conversation data across a thread
• Authenticating users through TFS and Azure
• Project Video
Questions?