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DYNAMICS CON LIVE

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One Dynamics, One Platform Online Environments Primer

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ELLIPSE
SOLUTIONS

Agenda

- Unified developer experience
- Provisioning
- Development experience
- FAQ
- Questions



Before we start

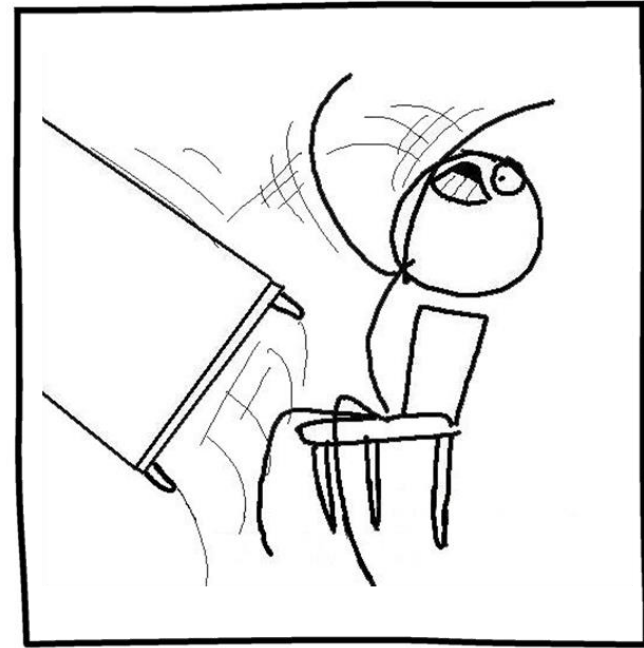
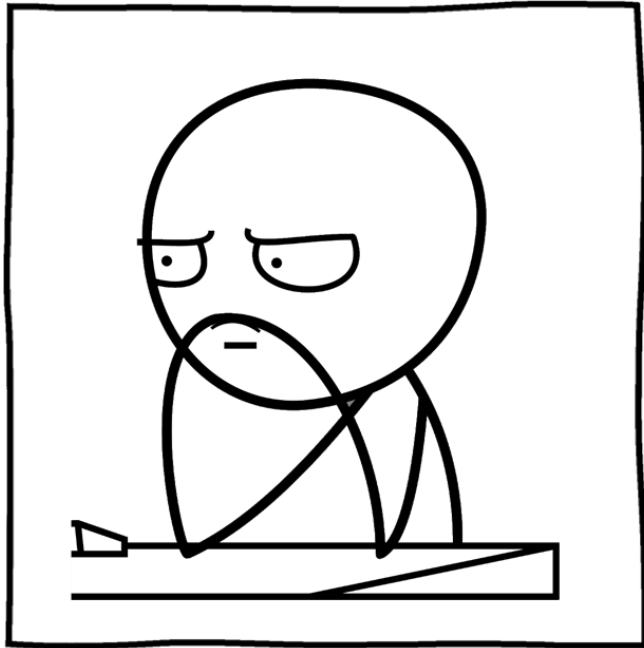


Current state of F&O development

- Azure VMs running full F&O stack
- Provisioned using LCS
- Managed via LCS
- Billed by the amount of time they run



Who is familiar with this scenario?

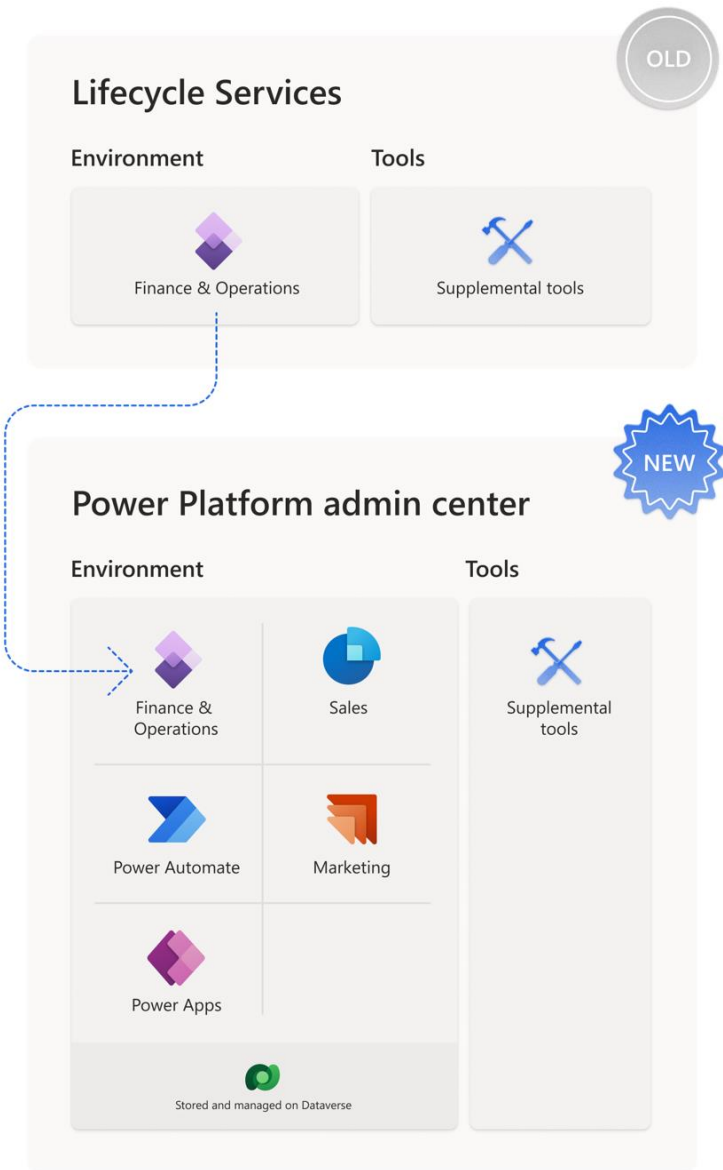


Unified developer experience



Unified developer experience

- The result of Microsoft efforts to incorporate Finance & Operations apps into Power Platform.
- In public preview since mid September 2023.
- [Unified Admin and Developer Experiences](#)



Unified developer experience

- FinOps environment management is done in PPAC.

The screenshot displays the Power Platform admin center interface. The top navigation bar includes 'Open', 'Resources', 'Settings', 'Convert to production', 'Backup & Restore', 'Copy', 'Reset', 'Delete', and 'History'. The main content area is titled 'Environments > elsTechConnect2023'. It features a 'Details' section with the following information:

| | |
|---|---|
| Environment URL elstechconnect2023.crm.dynamics.com | State Ready |
| Region United States | Refresh cadence Frequent |
| Type Sandbox | Security group Not assigned |
| Organization ID 8fa9342b-013d-ee11-94d0-000d3a323522 | Environment ID 082435ad-aa97-ec61-9381-88d603c40d05 |
| Finance and Operations URL https://elstechconnect2023.sandbox.oper... | |

To the right of the details is an 'Access' section with the following links:

- Security roles**
See all
- Teams**
See all
- Users**
See all
- S2S apps**
See all
- Business Units**
See all

The left sidebar contains navigation options: Home, Environments, Analytics, Billing (Preview), Settings, Resources, Help + support, Data integration, Data (preview), Policies, and Admin centers.



Provisioning

Before the fun you need to create one!



Local box requirements

- Windows 11 8GB (Window 10 works too)
- Visual Studio 2019 (VS Extensions available VS 2022)
- PowerShell tools for Power Platform Administrators
- Local SQL Server LocalDB (preferably) or SQL Server 2019.
- Azure VMs can be used but not officially supported.
- Do not use Cloud Hosted Environments.



Power Platform prerequisites

- D365 Finance license.

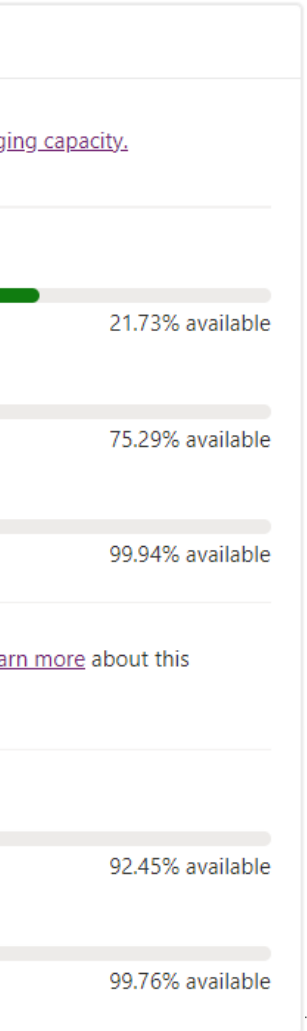
Enough capacity.

Capacity

- Capacity



CAPACITY, CAPACITY, CAPACITY, CAPACITY



Capacity

- How much do I get?
- How much do environments take?
- How much will it cost?



Provisioning

- Using Power Shell.
 - UI based provisioning available in the future.
- Provisioning guide available at:

[Tutorial: Provision a new environment with an ERP-based template \(preview\)](#)



Do you want to build a dev box?



Provisioning environment...



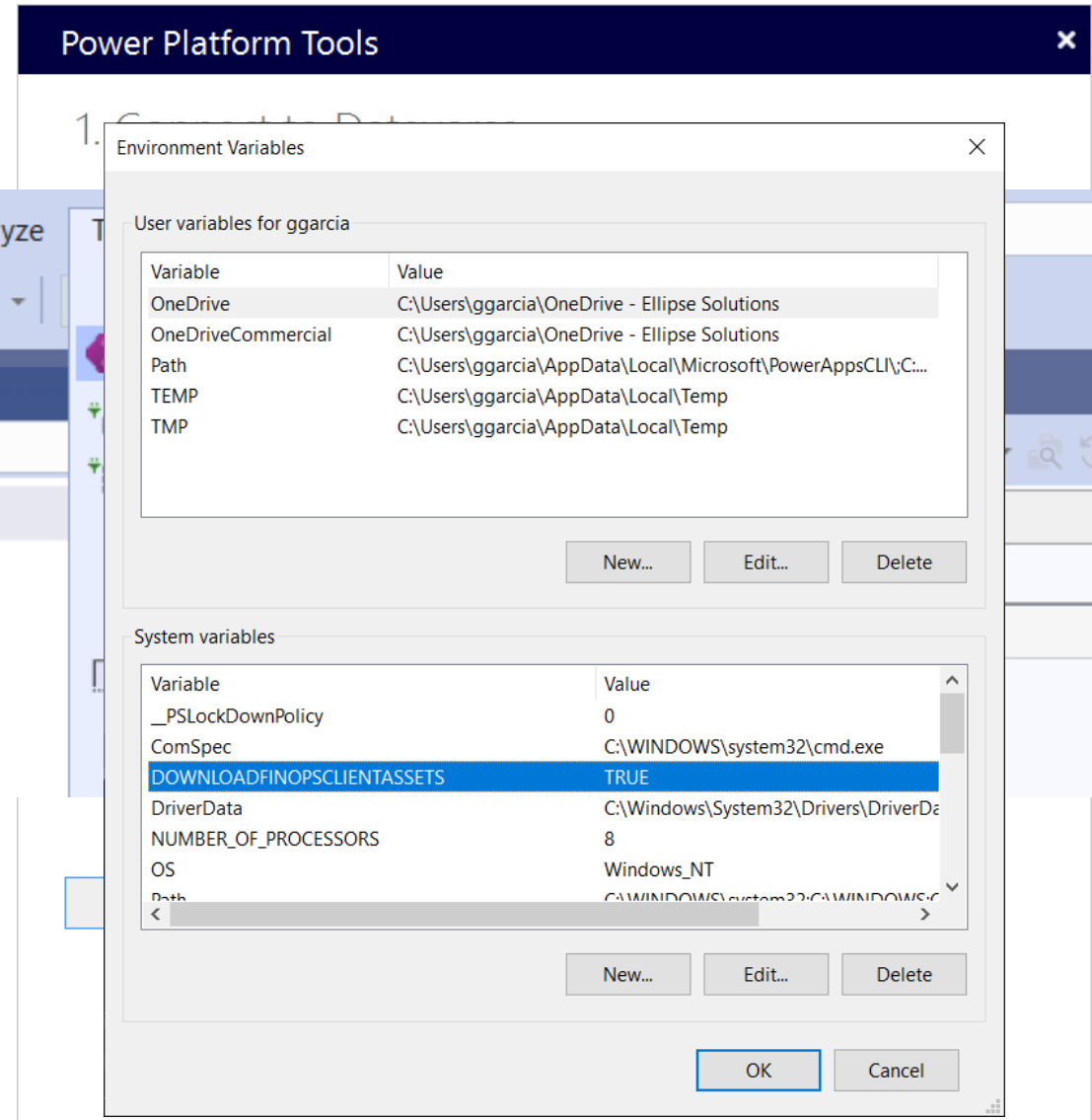
Development experience

... or, how I learned to stop worrying about dev box suddenly shutting down because I forgot to disable the auto-shutdown in Azure...



First things first...

- Download and install VS PP Tool
- Setup Environment Variables.
- Connect to Dataverse
 - Enter credentials
 - Select solution
 - Download assets
 - Extract the assets
- Install VS FO Extensions
- Configure FO Extensions



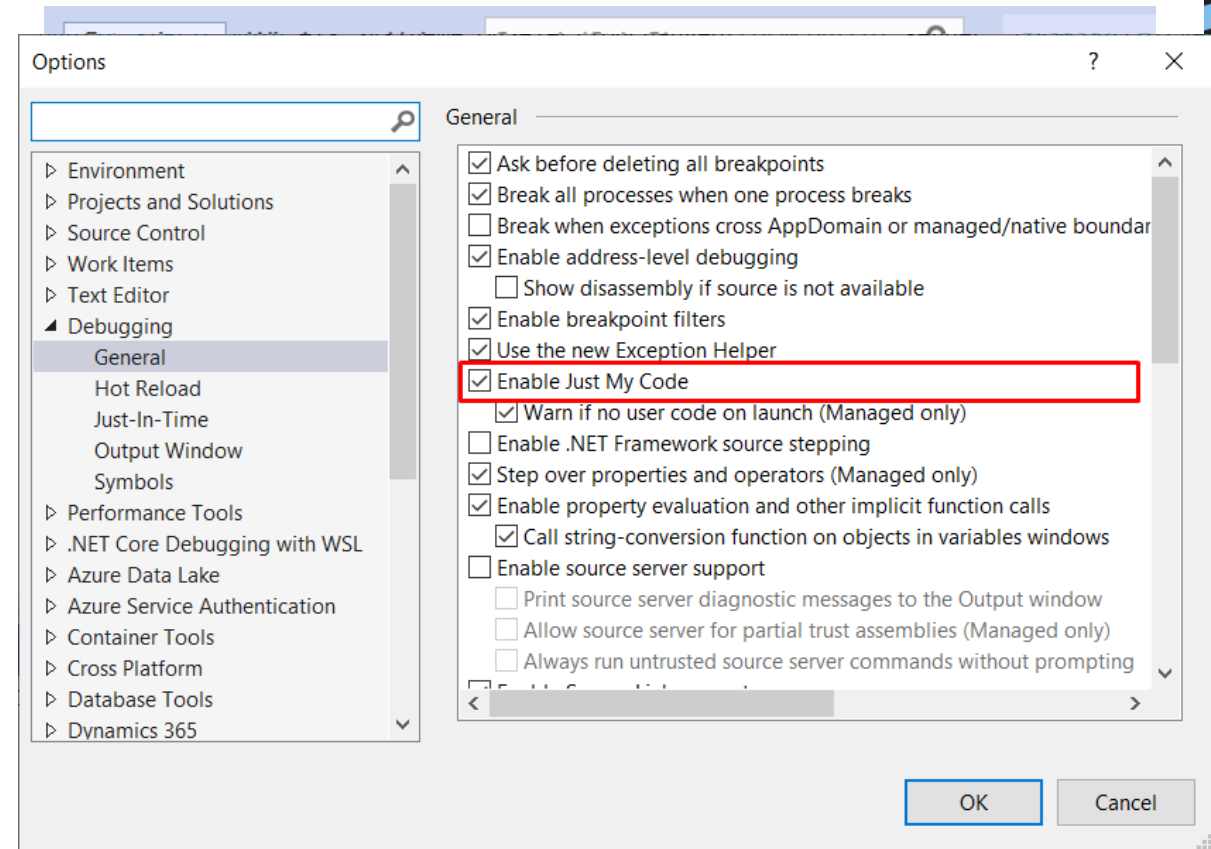
How does it feel?

- It is all the same, but at the same time it is completely different.
- Main differences:
 - No Remote Desktop
 - You become productive
 - The only limitation is your laptop
 - Overall, a breath of fresh air



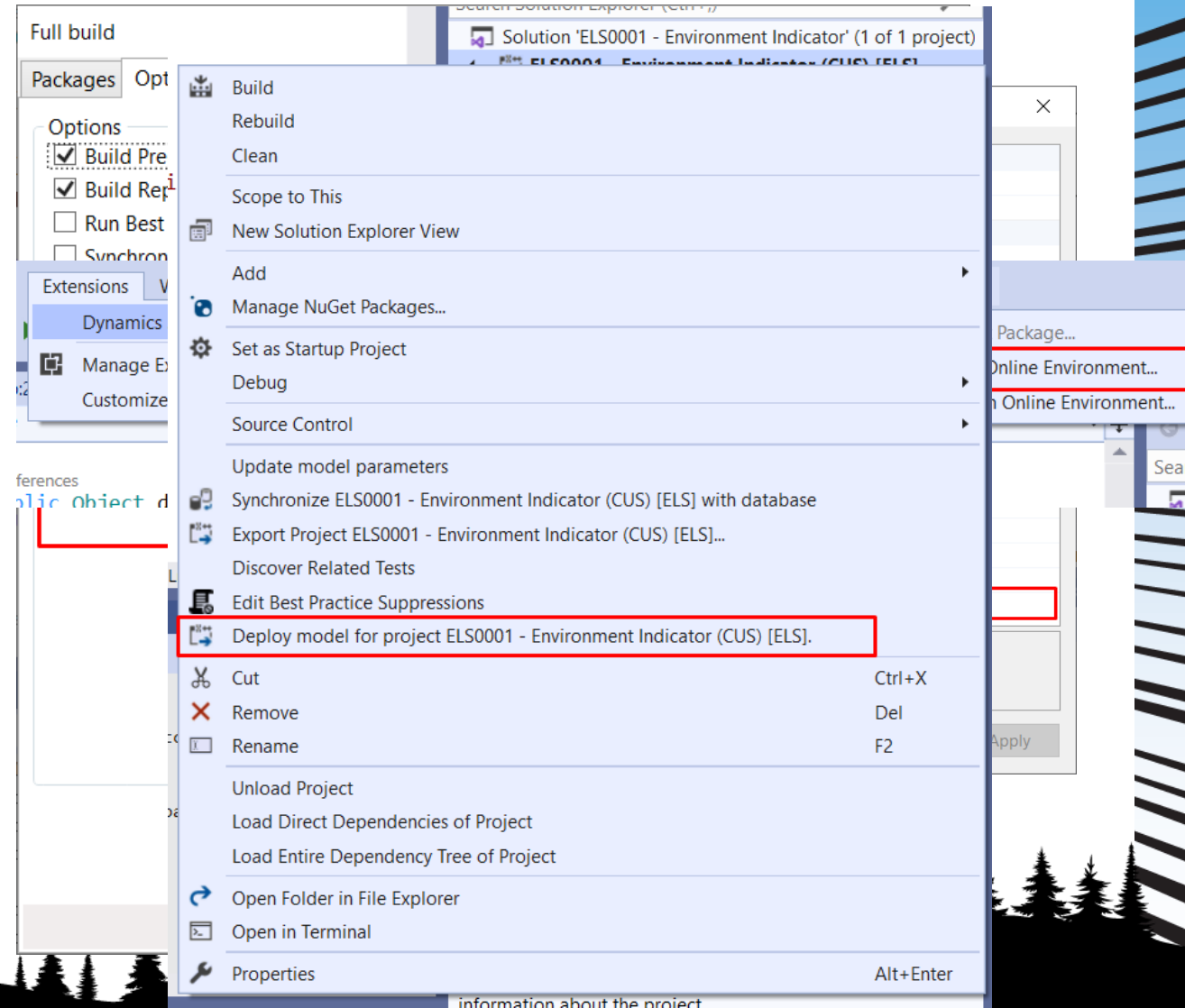
What if I need to debug?

- Remote debugger starts as long as you are connected to PP.
- “*Enable Just My Code*” for best results.
- Launch debugger with:
 - *Launch debugger*
 - ▶ Start to initiate debugger using the start up project/object.



How do I test my changes?

- Deploy!
- Automatically after build is complete.
- Automatically after an incremental build.
- Manual options
 - Using the deploy option under Extensions menu.
 - Using the deploy option on the project context menu.



Let's try the experience.

```
}).done(function(response) {
    for (var i = 0; i < response.length; i++) {
        var layer = L.marker(
            [response[i].latitude, response[i].longitude]
            // ,{icon: myIcon}
        );
        layer.addTo(group);

        layer.bindPopup(
            "<p>" + "Species: " + response[i].species + "</p>" +
            "<p>" + "Description: " + response[i].description + "</p>" +
            "<p>" + "Seen at: " + response[i].latitude + " " + response[i].longitude + "</p>" +
            "<p>" + "On: " + response[i].sighted_at + "</p>"
        );
    }

    $('select').change(function() {
        species = this.value;
    });
});

$.ajax({
    url: queryURL,
    method: "GET"
}).done(function(response) {
    for (var i = 0; i < response.length; i++) {
        var layer = L.marker(
            [response[i].latitude, response[i].longitude]
            // ,{icon: myIcon}
        );
        layer.addTo(group);
    }
});
```

What's up with LCS and Cloud Hosted Environments?

- Gradual migration to environments fully managed under PPAC.
- 2024 – 2025 timeframe.

Where is code going to be stored?

- Source Control will not change.
- DevOps will be used as the preferred platform to manage your project and store your code.
- New Pipeline tools will be available to create deployable packages.
- Opens the possibility to use Git as well.

Can I copy environments?

- The copy function will align with the Copy Environment functionality that exists in Power Platform; this is **Code + Data**.
- Microsoft working on enhancing the copy function and on improving the Advance Copy to minimize DB footprint.
- Additionally, there is the possibility to use Point-In-Time restores.

The copy function has Data Scrambling or Data Cleansing?

- Does not have data scrambling.
- Performs the same housekeeping level as LCS database export function.
- Advance Copy function helps cleanup transactional tables to minimize DB capacity requirements.

**Will the cost of an environment
depend on its requirements?**

**Do I need to purchase
more licenses if
developers are moving
from CHEs to Online
Environments?**

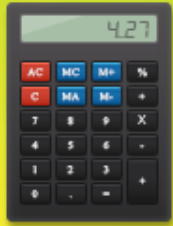


Will we still need to purchase Tier Two Environments add-ons?

Are there different performance tiers and prices for Dev/UAT/Prod?

What happens if I need more AOS's?





Microsoft will be releasing a calculator like the Azure Calculator to help customers calculate costs.



All environments on a tenant are equal in terms of performance.



Every license you buy, gives you Compute and Capacity Entitlements.



Compute Entitlements are measured in Power Platform Request Units.



Microsoft will offer different ways to get additional Compute entitlements.



Every 24 hours PPAC recalculates Requests Unit requirements and adjusts up and down depending on the needs of the environments.



Tier levels go away with the new model. All environments will be one tier.



Sandbox add-on purchases will be phased out.



In case of needing to increase the AOS on a particular environments, it must be decided whether you need to buy more licenses (to increase capacity or compute) or just buy compute units.



Questions?

Thank you!

