

# DER-VET Task Force

## ESIC Working Group 1: Grid Services and Analysis

Miles Evans | EPRI  
Halley Nathwani | EPRI  
Giovanni Damato | EPRI

December 3, 2020



# Antitrust Guidelines

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## DO NOT DISCUSS...

- Pricing, production capacity, or cost information which is not publicly available;
- Sales territories, market shares, future product offerings;
- Confidential market strategies or business plans;
- Other competitively sensitive information;
- Advise or try to influence others on their business decisions (except to the extent that they are already public);
- Complaints or disparaging remarks concerning customers/suppliers/competitors.

## DO NOT AGREE...

- To discriminate against or refuse to deal with a supplier (boycott);
- To only do business on certain terms and conditions;
- To set (or fix) prices;
- To divide markets or technologies;
- To allocate customers/suppliers/territories;
- To suppress a technology;
- To the use, promotion or endorsement of particular vendors, contractors, consultants or products.

# Webcast and Recording Notification

- The webcast is being recorded along with all Q&A. Your participation provides consent to that recording.
- As a result, please make sure your phone is on mute throughout the webcast unless speaking. Do not place your phone on hold.



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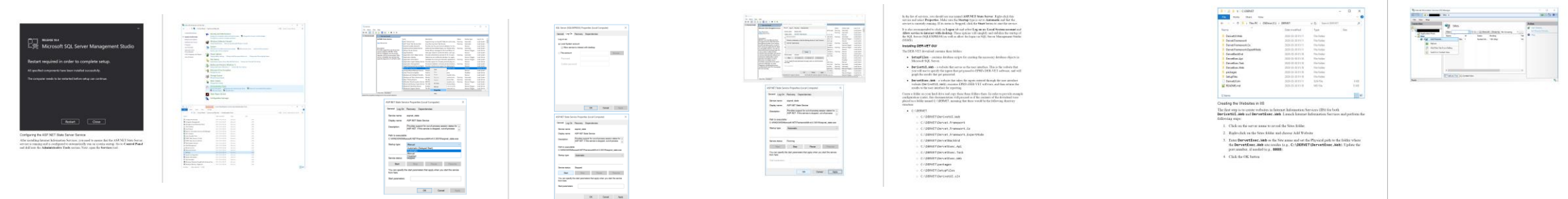
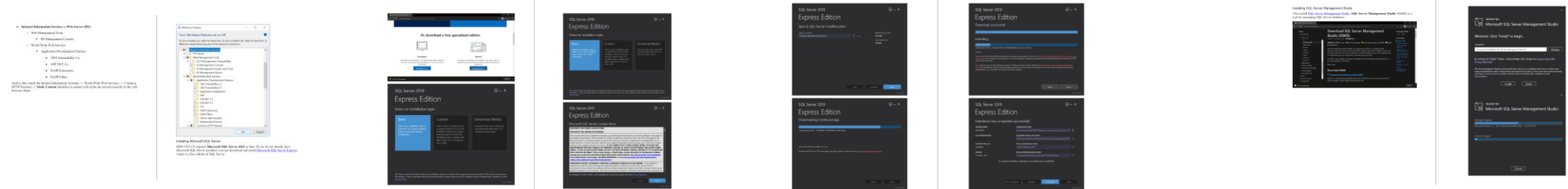


# Agenda

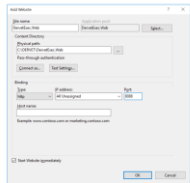
- Installing DER-VET
- Licensing DER-VET
- DER-VET release

# Installing DER-VET

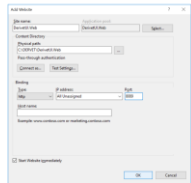
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# The Old



1. Click on the server name to reveal the Sites folder.
2. Right-click on the Sites folder and choose Add Website.
3. Enter **09erivictul.web** as the Site name and the Physical path to the folder where the **09erivictul.web** site resides (e.g., C:\09ERIV\09erivictul.web). Update the port number, if needed (e.g., 8088).
4. Click the OK button.



**Create Log Folder**

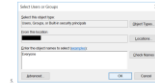
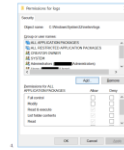
Next, create a folder named logs in the Windows folder windows\System32\Logfiles (e.g., C:\Windows\System32\Logfiles\Logs). This is the folder where EPRs DDB-VET software will place log files intended for experienced developers to troubleshoot any issues with the software.



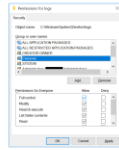
1. Right-click on the **Logon Fields** and choose **Properties**.
2. Go to the **Security** tab and click **Edit**.



3. Click **Add** and then type in **Everyone** and click **OK**.

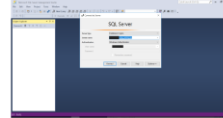


6. Check the **Full control** checkbox and click **OK**.

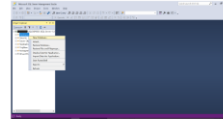


**Configuring Database for DER-VET GUI**  
Launch SQL Server Management Studio (SSMS) and Connect to the local server designated

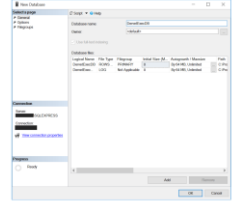
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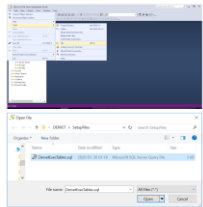
Right-click on the Databases tab and choose New Database.



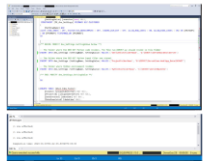
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Next, open the `SetupFiles\DersectTables.sql` file in SSMS.

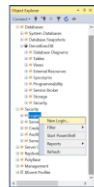


Click the Execute button to execute the SQL script.

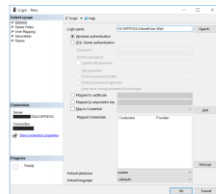


The `DerivertExecAuth` website needs to be able to access the `DerivertExecDB` database. To accomplish this, you must create an account in SQL Server for the security context under which the `DerivertExecAuth` website runs. When you created the `DerivertExecAuth` website you specified the Application Pool for the website would run under. Unless you explicitly changed this, the Application Pool is named `DerivertExecAuth`.

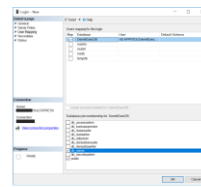
1. From SQL Server Enterprise Manager, expand the top-level **Security** folder. (Note that there is also a **Security** folder under each Database - it is important that you expand the top-level **Security** folder.)
2. Right-click on the **Logins** folder and choose **New Login**.



3. In Legitimate user IIS APPPOOL\DefaultWeb

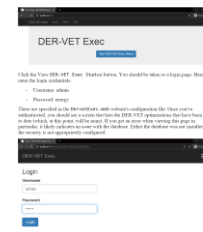


- Click on the **User Mapping** page on the left.
- Click the **DefaultRoleID** dropdown in the top section. Once checked, review the **Database role membership options** in the bottom. Ensure that the **db\_owner** checkbox is checked.
- Click **OK**.



**Running DER-VST GUI**

To test the installation and configurations, start by launching a web browser and visit the `DerivativesGUI` web website. The URL for this website will depend on the port number you entered when creating the website in DNS. Say you used `8080` - in this case you would visit `http://localhost:8080`. You should see a message that says `DER-VST GUI` along with a button labeled `View DER-VST GUI`. If you click on this message it will take you to another site indicating that the `DerivativesGUI` web website was not using its configured properly.





# DER-VET Beta Test

[Start a New Analysis](#)[Import Existing Project](#)

## Getting started

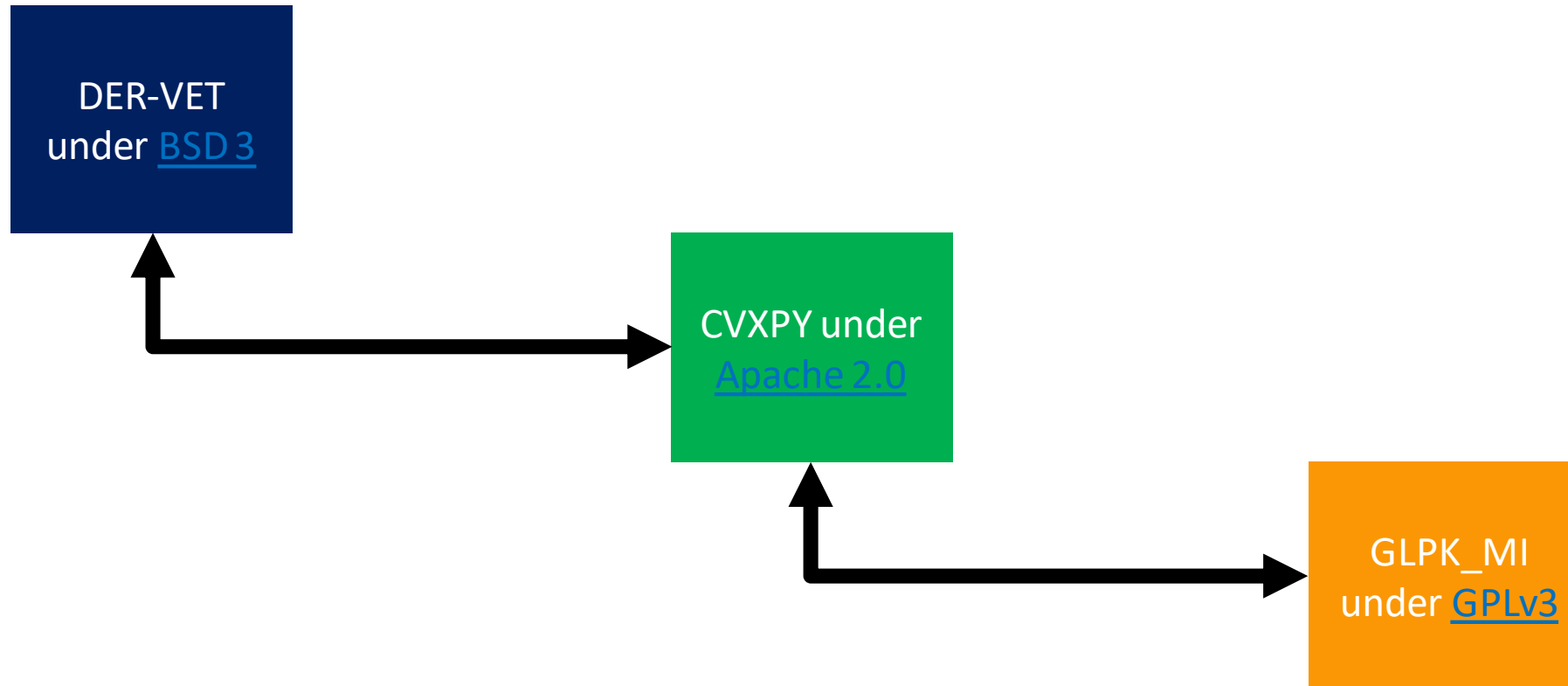
To start an analysis, click the **Start a New Analysis** button above. You will then be prompted to specify the type of analysis to run and to enter all relevant input data. Once you've entered all the needed data, the DER-VET analysis will begin. This can take several minutes to complete.

## Import an existing project

You can load a previously exported project by clicking the **Import Existing Project** button above. You will then be prompted to select the ZIP file that contains the project data and accompanying time series data.

# Licensing DER-VET

# DER-VET Licensing Structure



# DER-VET Licensing

- End users of DER-VET will have a seamless experience
- Licensing DER-VET's Python core code for modification and reuse is possible and easy under its BSD 3-clause license (permissive)
- Two packages used in DER-VET require different licenses:
  - cvxpy (Apache 2.0, permissive) and GLPK\_MI (GPLv3, copyleft), which have different implications for licensing

# DER-VET Release

# Release Date

- March 31, 2021 firm
- Github distribution for python core code
- [www.der-vet.com](http://www.der-vet.com) installer download for full software

# Next Meeting

# Regularly-Scheduled Meetings

- Next Meeting – **Thursday January 14, 11:00 am Pacific Time**
  - Breaks the usual schedule!
  - Only pushing this one meeting back by one week to give more time around the winter holiday.



# Together...Shaping the Future of Electricity