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AVEVA™ PI Vision™ performance

Best practices and remedies

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What are AVEVA™ PI Vision™ potential bottlenecks for performance?

- Client browser
- Network
- PI AF server
- PI data archive
- AVEVA PI Vision application
- Web server



PI AF related players

- Some PI AF attributes are calculated client side (at AVEVA PI Vision)
 - Analysis
 - Custom
 - Formula
 - String builder
 - URI builder
 - Table lookup* (cached in memory at runtime)



PI data archive attention points

- High density of data in trends
 - Very frequent and variant data values in source point
 - Large time range
- Extensive usage of PI calculations
 - Tag-based: calculated at PI data archive
 - Asset-based: calculated at AVEVA PI Vision



What about some examples?

- Expensive analysis data reference calculation
 - TagTot('PIPointAttribute','*-1mo','*')

Nested formulas

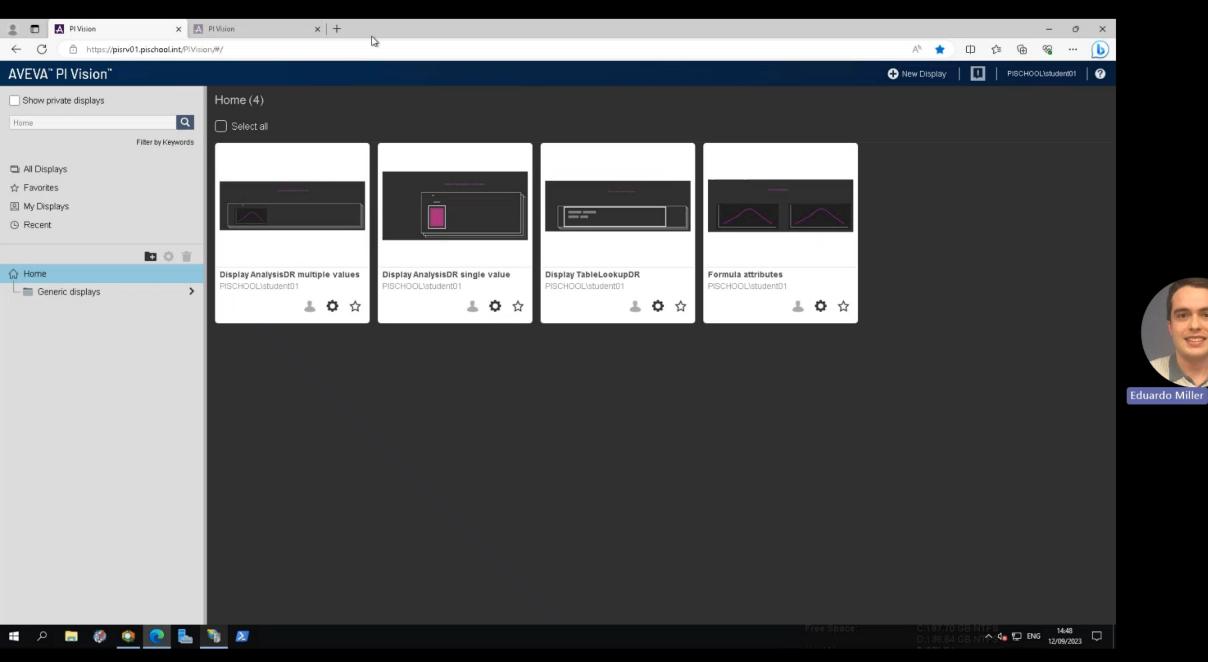
- Formula: 'Attribute 1'+'PIPoint'
 - Attribute_1: 'Attribute_2'+'PIPoint'
 - Attribute_2: 'Attribute_3'+'PIPoint'
 - Attribute_3: 'Attribute_4'+'PIPoint'

• ...



Demo time!









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Questions?

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