Técnicas de Debug e Log de Aplicações

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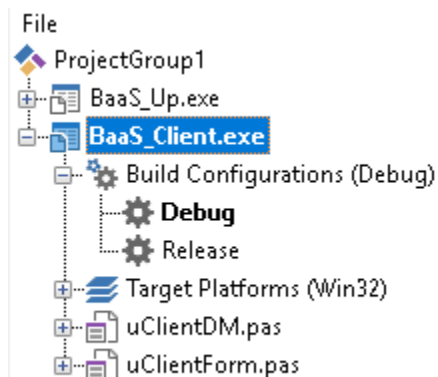Lead Software Consultant, *Latin America*

AGENDA

- Debugging
  - Debugger/Project Options
  - Breakpoints
  - Call Stacks
  - Local Variables
  - Watches
  - Source breakpoints (Conditions, Pass count, Log message)
- Debug Remoto (PAServer)
- Log
  - Log.d ()
  - Ferramentas

DEBUGGER/PROJECT OPTIONS

BREAKPOINTS

- F9 Run/Start
- F8 Step over to next source line
- F7 Trace into (source of function/procedure)
- F4 Run to cursor (and skip the other source lines)
- F5 Add/remove break

CALL STACKS

- A janela Call Stack exibe as chamadas de que o levaram à sua localização atual do programa e os argumentos passados para cada chamada de função.
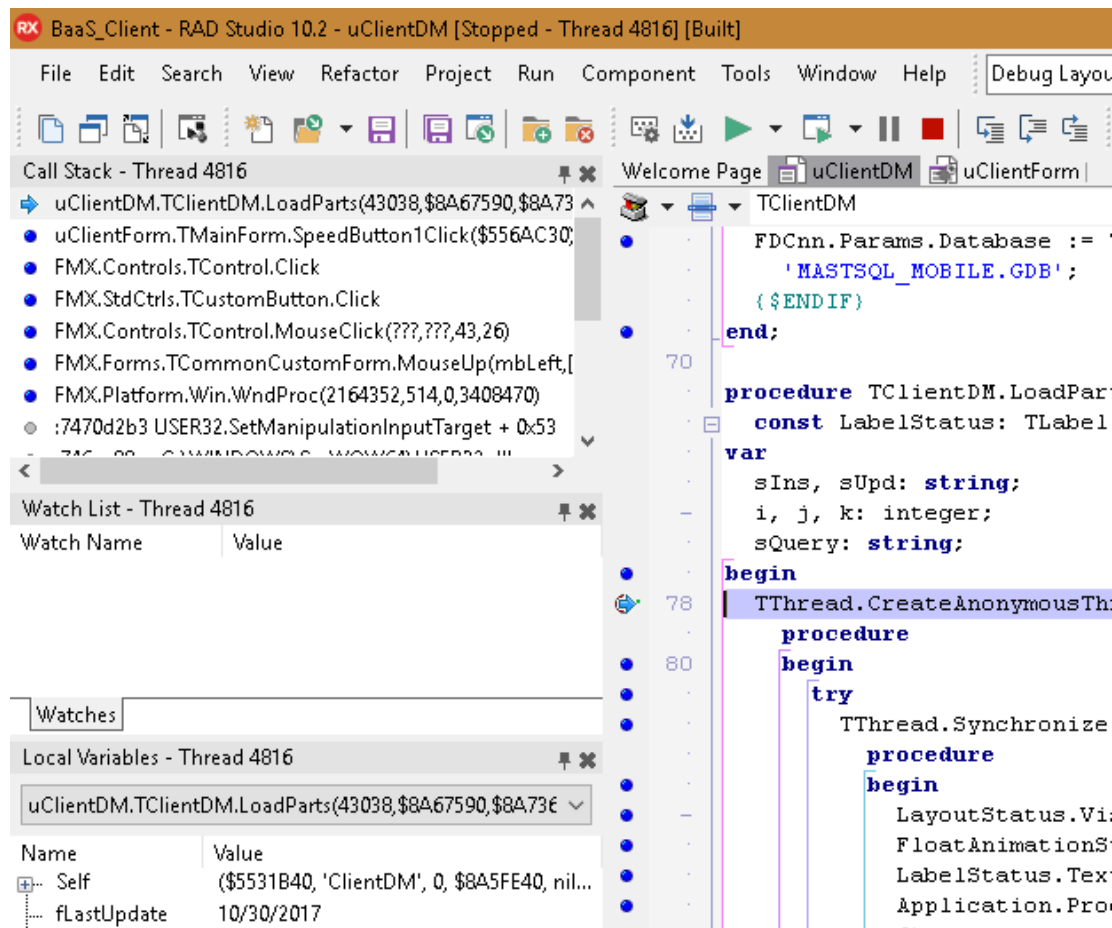
LOCAL VARIABLES

- Esta janela mostrará todas as variáveis locais e seu valor atual na função ou procedimento atual.
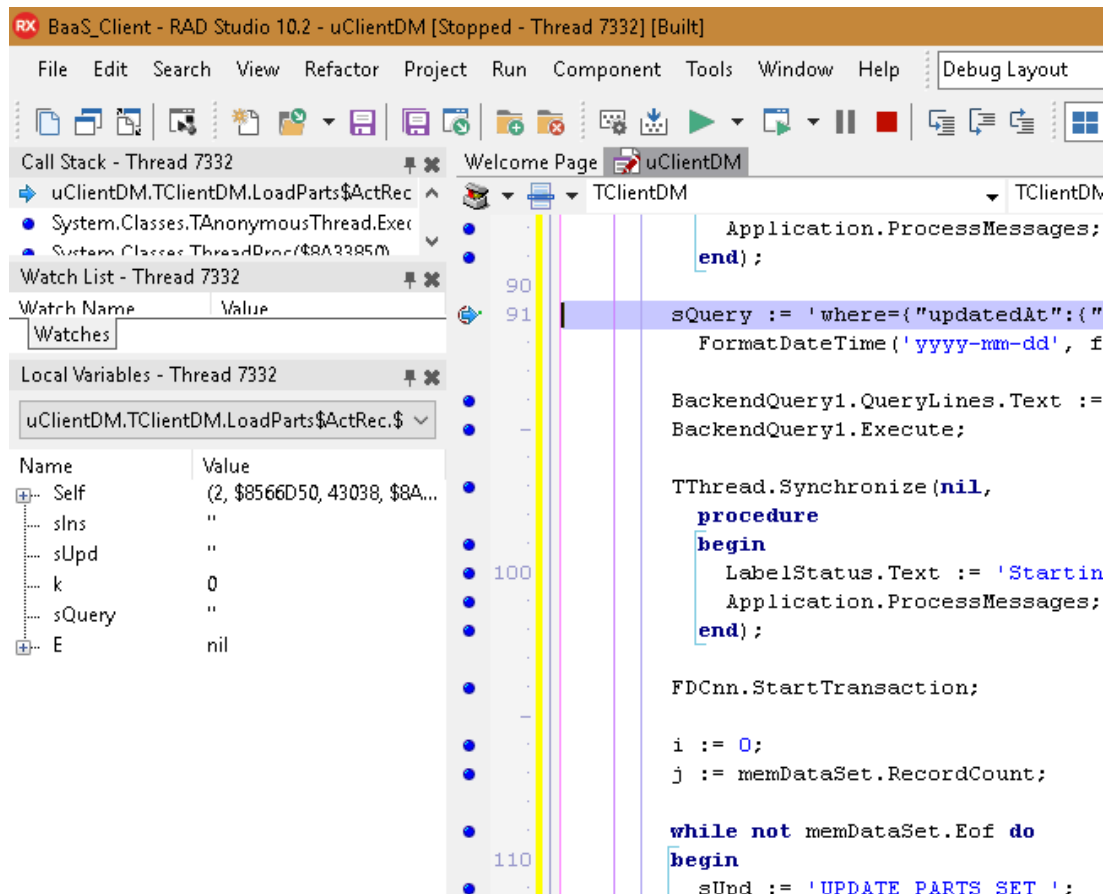
WATCHES

- Clique com o botão direito do mouse e escolha Adicionar Watch.

SOURCE BREAKPOINTS (CONDITIONS, PASS COUNT, LOG MESSAGE)
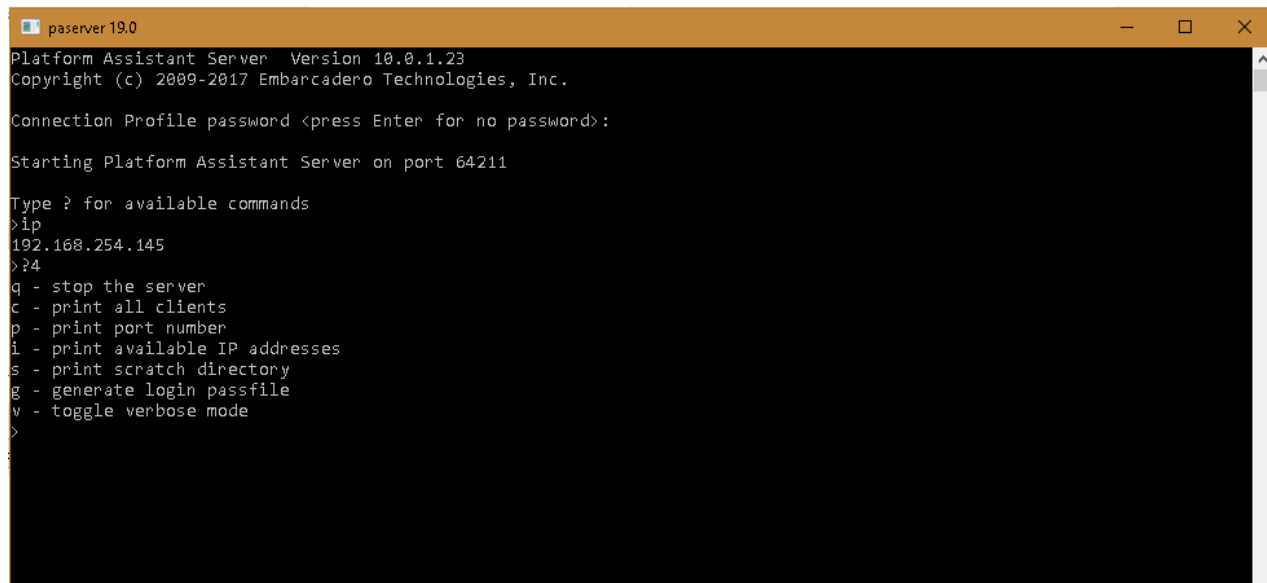
DEBUG REMOTO (PASERVER)

- Permite debug remoto em todas as plataformas, mobile e desktop

LOG.D

- Disponível para FMX (neste momento)
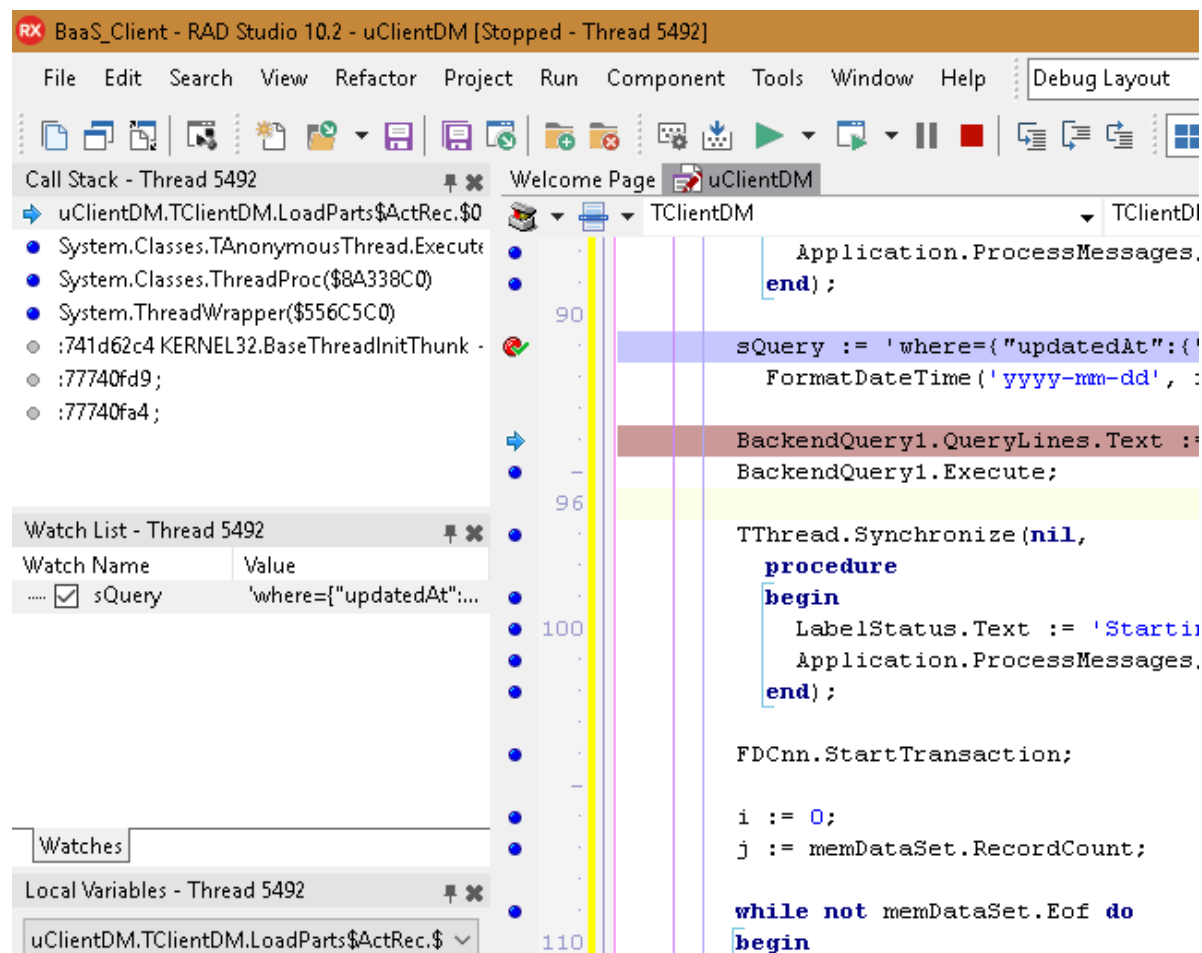- Fornece métodos estáticos para mensagens de depuração
- http://docwiki.embarcadero.com/Libraries/Berlin/en/FMX.Types.Log
- http://docwiki.embarcadero.com/Libraries/Berlin/en/FMX.Types.Log.d

Description and Parameters	Code Snippet

Simple debug message.
› Msg: The text of the message.
	Delphi :
	
	```Log.d('Simple Message');```
	
	C++:
	
	```Log::d("Simple Message");```

FERRAMENTAS

- https://www.raize.com/devtools/codesite/ (*)
- https://smartbear.com/product/aqtime-pro/overview/ (*)
- http://www.gurock.com/smartinspect/
- https://github.com/danieleteti/loggerpro

- https://docs.microsoft.com/en-us/sysinternals/downloads/debugview
- https://developer.android.com/studio/profile/monitor.html

DEMOS

RECURSOS ADICIONAIS

- Documentação
  - http://docwiki.embarcadero.com/RADStudio/Tokyo/en/Debugging_Applications_Index
  - http://docwiki.embarcadero.com/RADStudio/Tokyo/en/Debugging_Multi-Device_Applications
  - http://docwiki.embarcadero.com/RADStudio/Tokyo/en/PAServer,_the_Platform_Assistant_Server_Application
  - http://docwiki.embarcadero.com/RADStudio/Tokyo/en/Paclient.exe,_the_Platform_Assistant_Client_Application
  - http://docwiki.embarcadero.com/Libraries/Berlin/en/FMX.Types.Log.d

- Blogs
  - http://www.blong.com/Conferences/BorCon2002/Debugging/3188.htm
  - http://www.davidghoyle.co.uk/WordPress/?p=1754
  - https://github.com/marcocantu/ObjectDebugger

OBRIGADO!

Perguntas?

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