CANON MEDICAL SYSTEMS DO BRASIL



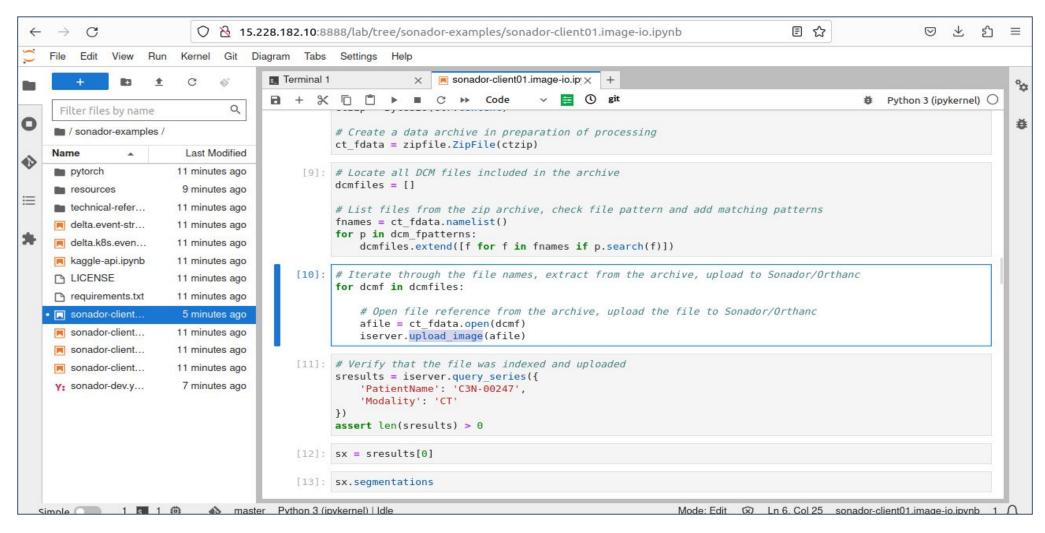


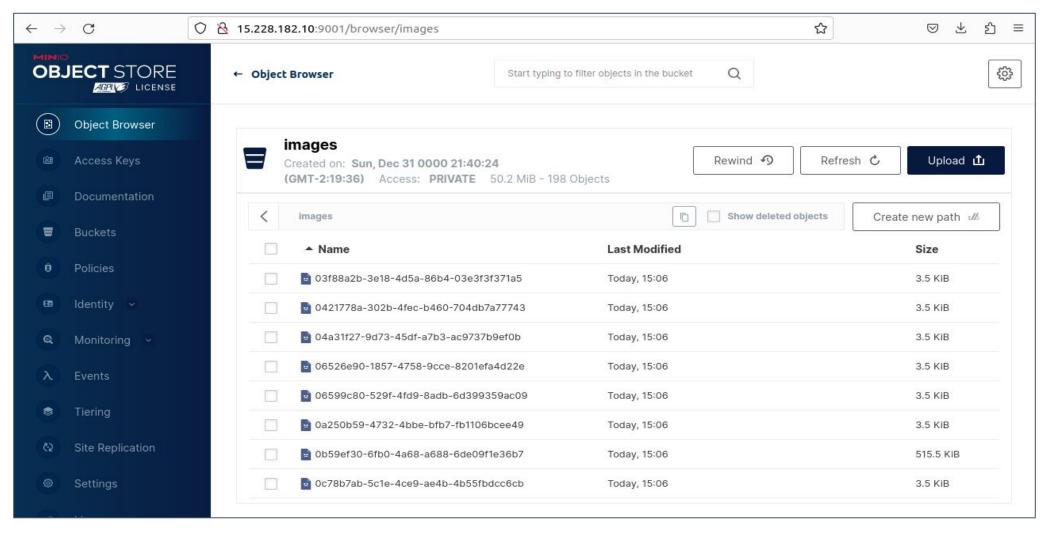
DCM Uploader: um sistema de informação para garantia de confidencialidade, integridade e disponibilidade no tráfego de imagens médicas baseadas no padrão DICOM

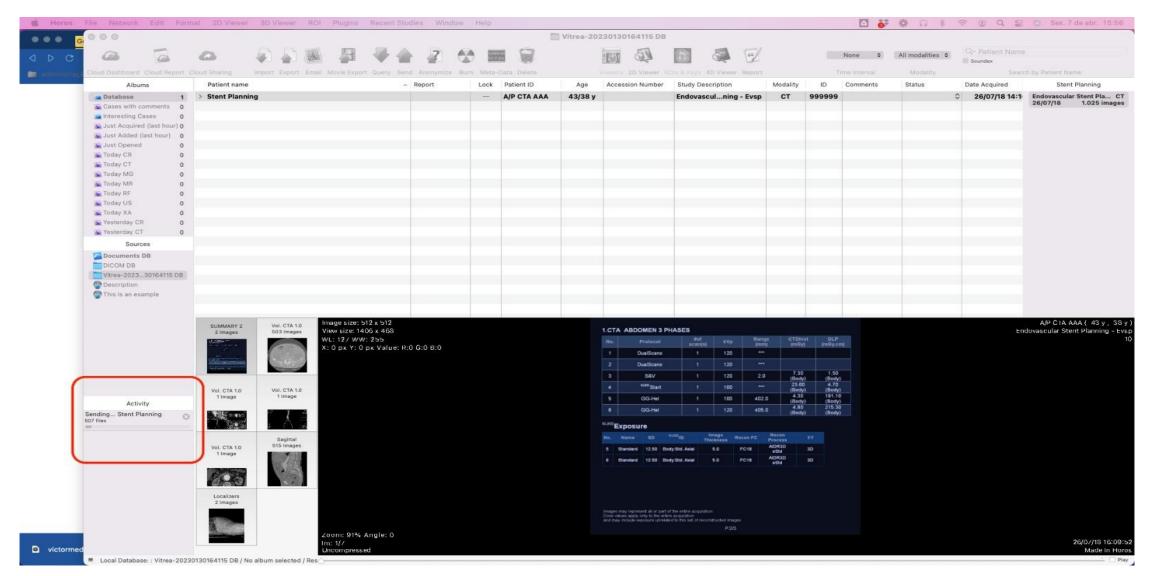
Resultados da Sprint 04 11/04/2023

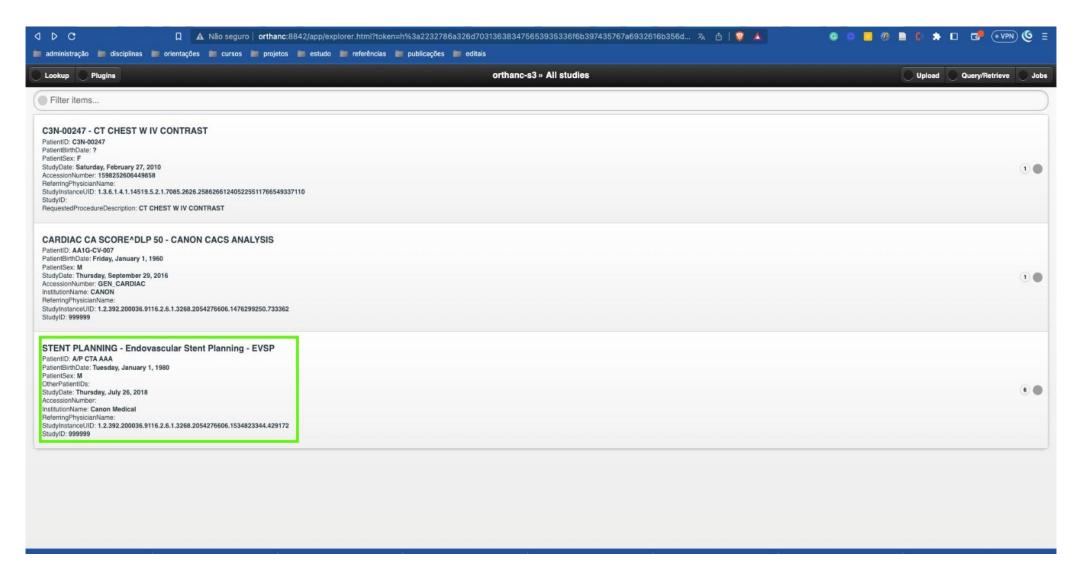
- Ampliação dos cenários de testes
- Construção de uma base de testes baseada nos cenários propostos
- Realização de testes comparativos (Sonador vs. DCM uploader) para os cenários propostos
- Implantar um servidor de autenticação na AWS

- Colocamos a infraestrutura para funcionar na AWS
- Configuração do servidor de autenticação (Cognito na AWS e Acorn)
- Transferência de estudos para a nuvem através da API do Sonador utilizando um Jupyter Notebook.
- Transferência de estudos para a instância Sonador do Orthanc na nuvem através do Horos.
- Identificamos a necessidade de fazer um deploy do Sonador em https
- Estudo do deploy em K8s
 - necessidade de um domínio
 - portar parte do deploy de GCP para AWS







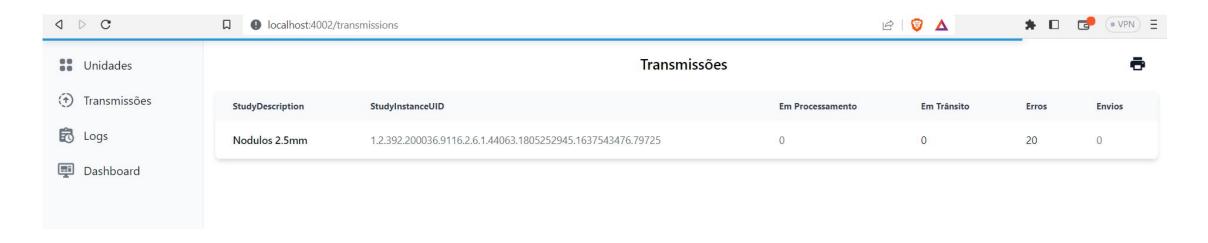


Time Greenfield Próximos Passos

- Analisar e aplicar a melhor alternativa para fazer deploy via docker que responda com HTTPS
- Realizar o deploy via k8s

11/04/2023

Reunião técnica 03/04/2023

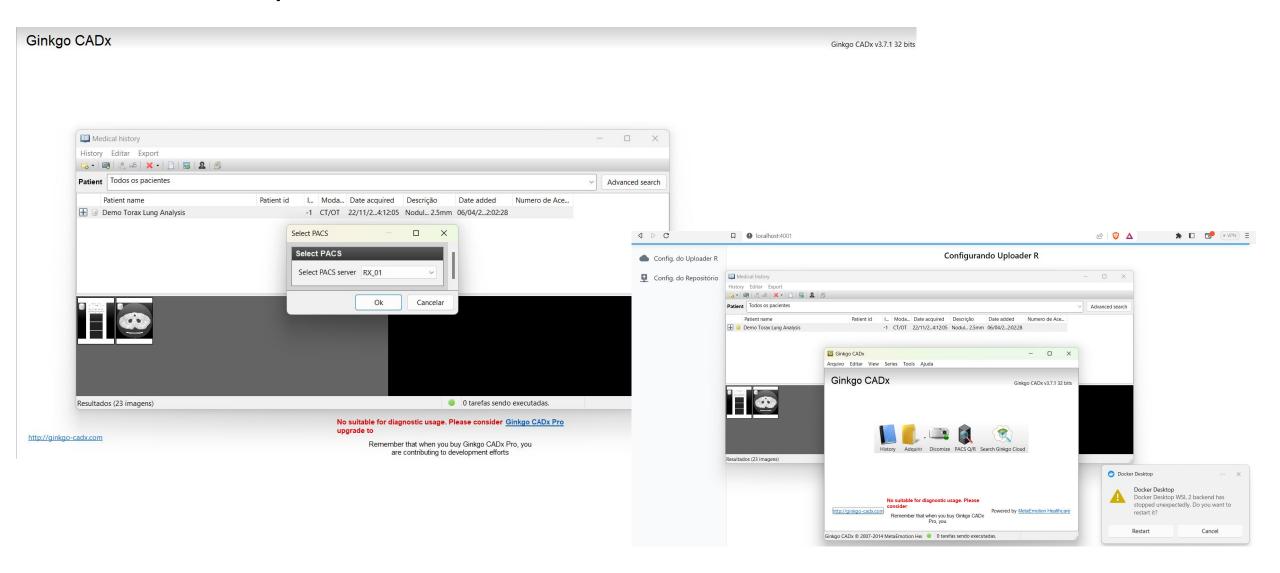


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Debug

```
ssh: connect to host localhost port 3022: Cannot assign requested address
ohoenix 1
ohoenix 1
            rsync: connection unexpectedly closed (0 bytes received so far) [sender]
           rsync error: unexplained error (code 255) at io.c(228) [sender=3.2.3]
ohoenix 1
            [debug] emqtt(emqtt-f3a49724607f-d9897f6698a305db5dfb): SEND Data: {:mqtt packet, {:mqtt packet header, 3, false, 2, false}, {:mqtt packet publish, "transmission", 11, %{}},
phoenix 1
{\"end\":\"2023-04-05T01:07:24.792729Z\",\"status\":\"T - ERROR\",\"uuid\":\"775DE522116548AAB1F5185D6068BB81\"}"}"}
ohoenix 1
            "Error while storing file"
ohoenix 1
            "Input Path: /app/observable/SC.1.2.840.113747.6377327108688.11704.13.215938450104910.2"
            [debug] emqtt(emqtt-f3a49724607f-d9897f6698a305db5dfb): RECV Data: <<80, 2, 0, 11>>
ohoenix 1
            [debug] emqtt(emqtt-f3a49724607f-d9897f6698a305db5dfb): SEND Data: {:mqtt packet, {:mqtt packet header, 6, false, 1, false}, {:mqtt packet puback, 11, 0, :undefined}, :undefined}
ohoenix 1
            Traceback (most recent call last):
ohoenix 1
            File "/app/lib/uploader t/core/py/get ae title.py", line 10, in <module>
ohoenix 1
ohoenix 1
                dcm = pydicom.dcmread(filename)
             File "/usr/local/lib/python3.9/dist-packages/pydicom/filereader.py", line 993, in dcmread
ohoenix 1
ohoenix 1
                fp = open(fp, 'rb')
            FileNotFoundError: [Errno 2] No such file or directory: 'observable/SC.1.2.840.113747.6377327108688.11704.13.215938450104910.2'
ohoenix 1
```

```
root@447a39a95a88:/app# ssh -p 3022 uploader_t_1@localhost
ssh: connect to host localhost port 3022: Cannot assign requested address
root@447a39a95a88:/app# ssh -p 22 uploader_t_1@localhost
ssh: connect to host localhost port 22: Cannot assign requested address
```



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Retomamos após duas horas e não foi enviado todos os estudos.

Um de 502 deu certo.

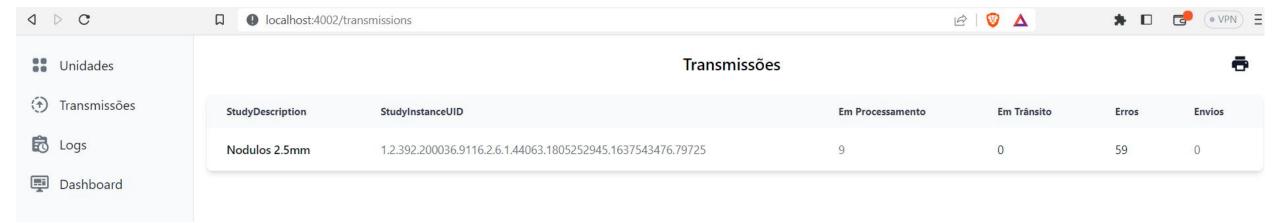
1.839 não deu certo – travou o sistema:

```
1050894025.43859", :pending}, {"observable/PI.1.2.840.113/04./.1.0.1/010908251102171.1050894023.43547", :pending}, {"observable/PI.1.2.840.113704.7.1.0.17016968251162171.1050894632.43483", :pending}, {"observable/PI.1.2.840.113704.7.1.0.17016968251162171.1050894633.0.44443", :pending}, {"observable/CT.1.2.392.200036.9116.2.1.3218034811.1536214514.981555.1.287", :pending}, {"observable/PI.1.2.840.113704.7.1.0.17016968251162171.1050894632.44683", :pending}, {"observable/PI.1.2.840.113704.7.1.0.17016968251162171.1050894006.4168.0", :pending}, {"observable/CT.1.2.392.200036.9116.2.1.3218034811.1536671369.127521.1.241", :pending}, {"observable/CT.1.2.392.200036.9116.2.1.3218034811.1536671369.127521.1.241", :pending}, {"observable/CT.1.2.392.200036.9116.2.1.3218034811.1536671369.127521.1.241", :pending}, {"observable/CT.1.2.392.200036.9116.2.1.3218034811.1536671369.127521.1.241", :pending}, {"observable/CT.1.2.840.113704.7.1.0.17016968251162171.1050894623.43560", :pending}, {"observable/CT.1.2.840.113704.7.1.0.17016968251162171.1050894612.42364", :pending}, {"observable/PI.1.2.840.113704.7.1.0.17016968251162171.1050894609.41941", :pending}, {"observable/PI.1.2.840.113704.7.1.0.17016968251162171.1050894619.41941", :pending}, {"observable/PI.1.2.840.113704.7.1.0.17016968251162171.1050894619.41941", :pending}, {"observable/PI.1.2.840.113704.7.1.0.170169
```

5039", :pending}, {"observable/CT.1.2.392.200036.9116.2.6.1.44063.1805252945.1637544153.34658", :pending}, {"observable/CT.1.2.392.200036.9116.2.6.1.44063.1805252945.1637544152.832219", :pending}, {"observable/CT.1.2.392.200036.9116.2.6.1.44063.1805252945.1637544152.832219", :pending}, {"observable/CT.1.2.392.200036.9116.2.6.1.44063.1805252945.1637544152.739108", :pending}, {"observable/CT.1.2.392.200036.9116.2.6.1.44063.1805252945.1637544152.739108", :pending}, {"observable/CT.1.2.392.200036.9116.2.6.1.44063.1805252945.1637544153.459143", :pending}, {"observable/CT.1.2.392.200036.9116.2.6.1.44063.1805252945.1637544153.459143", :pending}, {"observable/CT.1.2.392.200036.9116.2.6.1.44063.1805252945.1637544153.171013", :pending}, {"observable/CT.1.2.392.200036.9116.2.6.1.44063.1805252945.1637544153.171013", :pending}, {"observable/CT.1.2.392.200036.9116.2.6.1.44063.1805252945.1637544152.874705", :pending}], watcher_pid: #PID<0.855.0>}], [file: 'gen_server.erl', line: 771]}, {:proc_lib, :init_p_do_apply, 3, [file: 'proc_lib.erl', line: 226]}]}

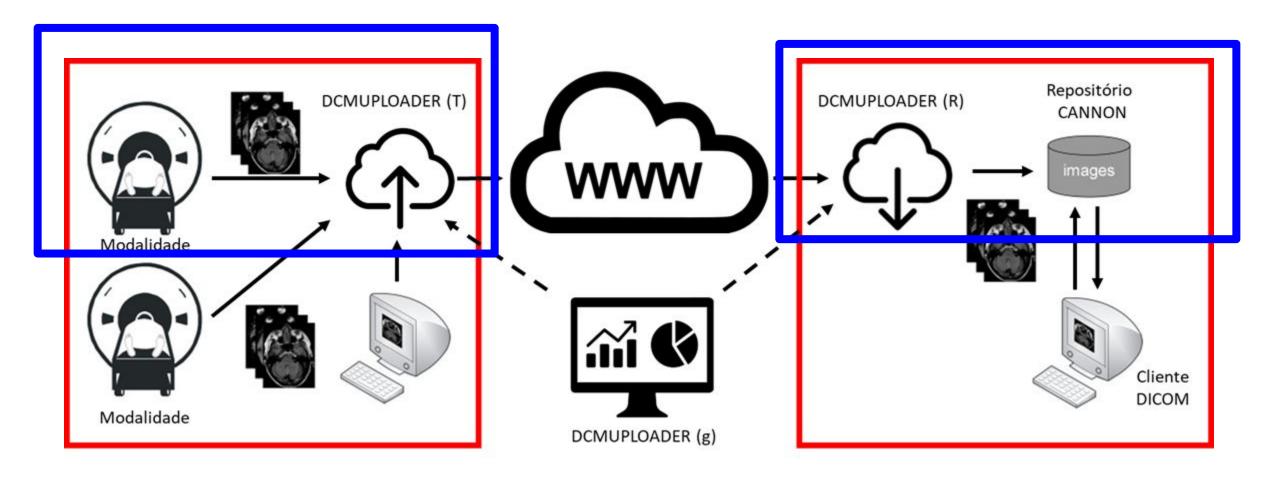
phoenix_1 | State: %{port: #Port<0.214>, worker_pid: #PID<0.855.0>}

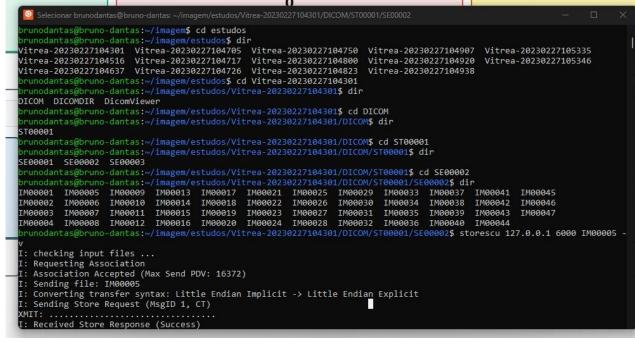
phoenix_1 | [notice] Application uploader_t exited: shutdown

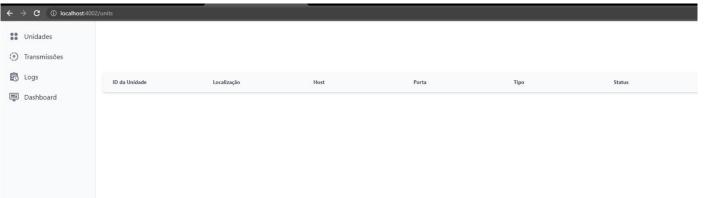


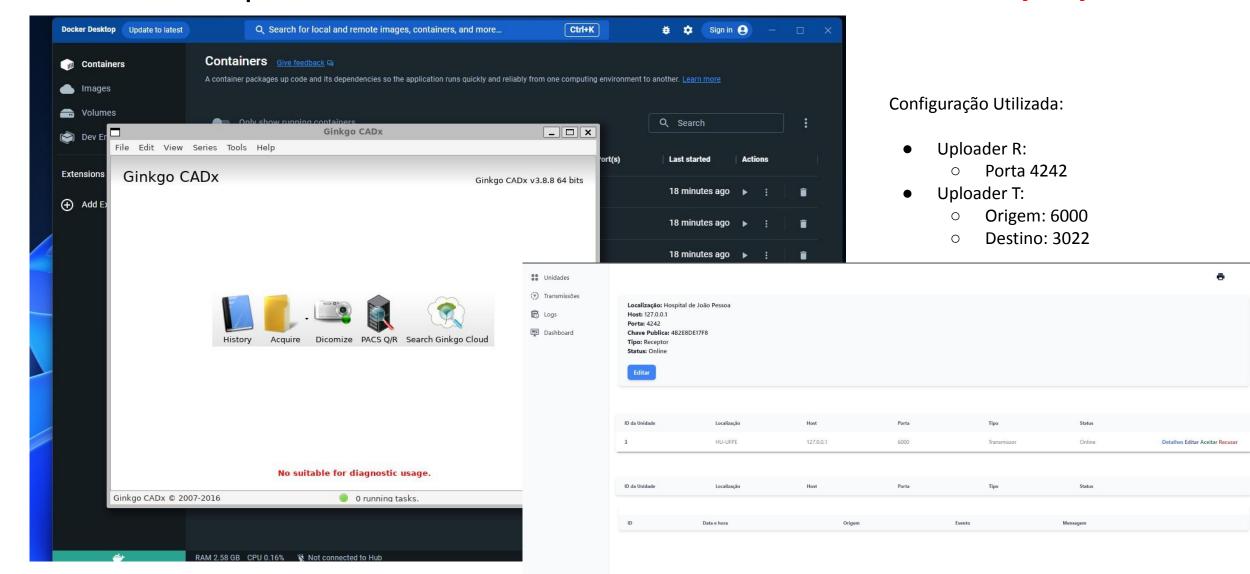
```
{"/app/observable/MR.1.2.392.200045.8842.5.999999.20160513.2.338".
:completed).
{"/app/observable/MR.1.2.392.200045.8842.5.999999.20160513.2.337",
:completed},
{"/app/observable/MR.1.2.392.200045.8842.5.999999.20160513.2.336",
{"/app/observable/MR.1.2.392.200045.8842.5.999999.20160513.2.335",
{"/app/observable/MR.1.2.392.200045.8842.5.999999.20160513.2.334",
:completed},
{"/app/observable/MR.1.2.392.200045.8842.5.999999.20160513.2.333",
:completed).
{"/app/observable/MR.1.2.392.200045.8842.5.999999.20160513.2.332",
:completed},
{"/app/observable/MR.1.2.392.200045.8842.5.999999.20160513.2.331",
{"/app/observable/MR.1.2.392.200045.8842.5.999999.20160513.2.330",
{"/app/observable/MR.1.2.392.200045.8842.5.999999.20160513.2.329",
["/app/observable/MR.1.2.392.200045.8842.5.999999.20160513.2.328", :pending},
 "/app/observable/MR.1.2.392.200045.8842.5.999999.20160513.2.327", :pending},
  /app/observable/MR.1.2.392.200045.8842.5.999999.20160513.2.326", :pending},
```

```
/app/observable/SC.1.2.840.113747.6377327108784.11704.8.215938450104910.3
              [:modified]}
phoenix 1
             {"/app/observable/SC.1.2.840.113747.6377327108784.11704.8.215938450104910.3",
phoenix 1
phoenix 1
              [:modified]}
             {"/app/observable/SC.1.2.840.113747.6377327108784.11704.8.215938450104910.3",
phoenix 1
              [:modified]}
phoenix 1
             {"/app/observable/SC.1.2.840.113747.6377327108784.11704.8.215938450104910.3",
phoenix 1
              [:modified]}
phoenix 1
             {"/app/observable/SC.1.2.840.113747.6377327108784.11704.8.215938450104910.3",
phoenix 1
phoenix 1
              [:modified]}
             {"/app/observable/SC.1.2.840.113747.6377327108784.11704.8.215938450104910.3",
phoenix 1
              [:modified]}
phoenix 1
phoenix 1
             {"/app/observable/SC.1.2.840.113747.6377327108784.11704.8.215938450104910.3",
               :modified]
phoenix 1
```









			Vitrea-20230227104907	
				Vitrea-20230227105346
		Vitrea-20230227104823	Vitrea-20230227104938	
unodantas@hnuno-dant				
unodantas@bruno-dant	as:~/imagem/estudos/Vit	rea-20230227104301\$ dir	10	
COM DICOMDIR Dicom				



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Unidades

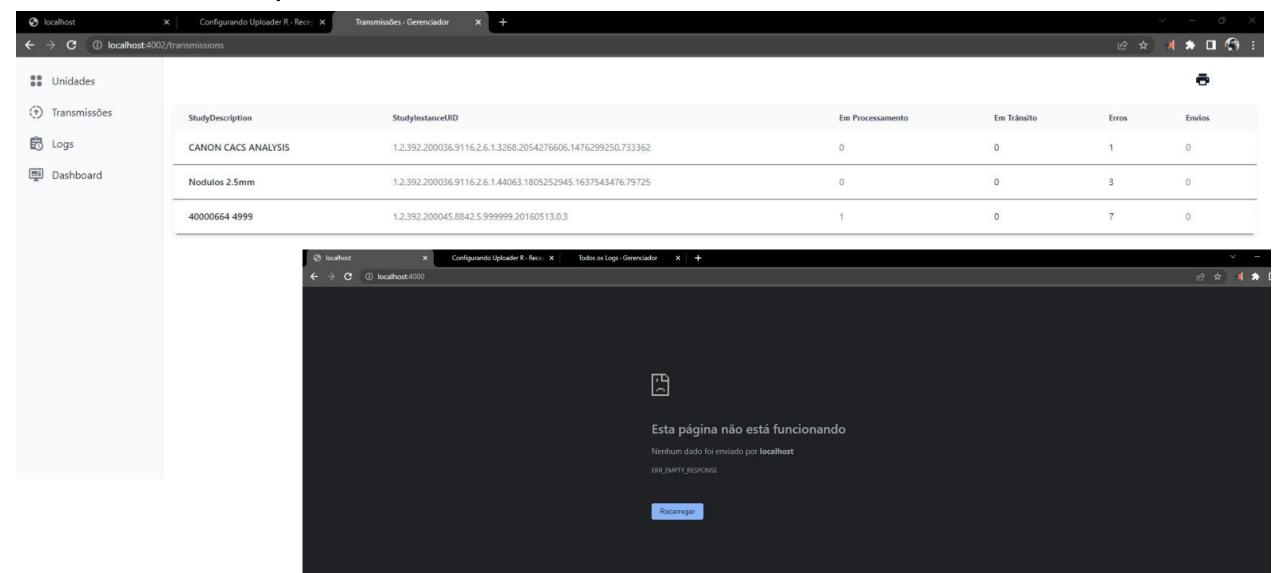
Transmissões

Logs

Dashboard

StudyDescription	StudyInstanceUID	Em Processamento	Em Trânsito	Erros
CANON CACS ANALYSIS	1.2.392.200036.9116.2.6.1.3268.2054276606.1476299250.733362	0	0	1
Nodulos 2.5mm	1.2.392.200036.9116.2.6.1.44063.1805252945.1637543476.79725	0	0	3
40000664 4999	1.2.392.200045.8842.5.999999.20160513.0.3	0	0	3

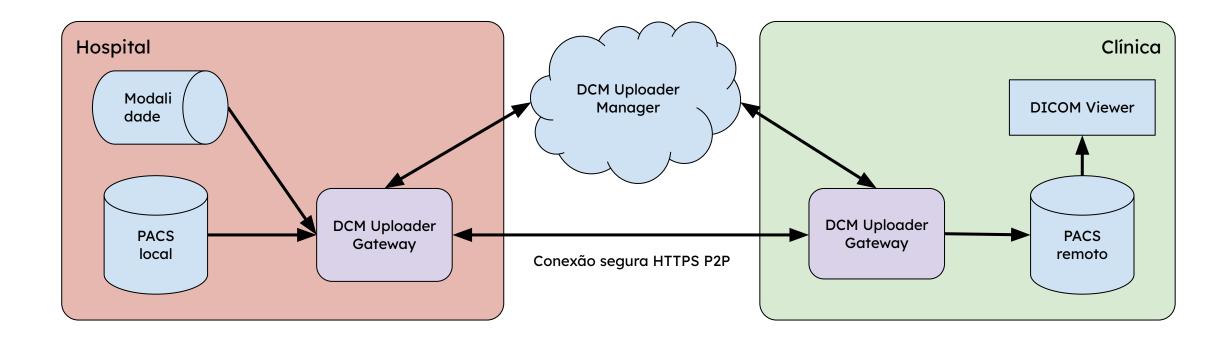
```
brunodantas@bruno-dantas: ~
(ginkgocadx:976): Gtk-CRITICAL **: 19:52:06.212: gtk_box_gadget_distribute: asse
rtion 'size >= 0' failed in GtkNotebook
(ginkgocadx:976): Gtk-CRITICAL **: 19:52:06.225: gtk_box_gadget_distribute: asse
rtion 'size >= 0' failed in GtkNotebook
(ginkgocadx:976): Gtk-CRITICAL **: 19:52:06.257: gtk_box_gadget_distribute: asse
rtion 'size >= 0' failed in GtkNotebook
(ginkgocadx:976): Gtk-CRITICAL **: 19:52:06.291: gtk box gadget distribute: asse
rtion 'size >= 0' failed in GtkNotebook
(ginkgocadx:976): Gtk-CRITICAL **: 19:52:06.338: gtk_box_gadget_distribute: asse
rtion 'size >= 0' failed in GtkNotebook
(ginkgocadx:976): Gtk-CRITICAL **: 19:52:06.365: gtk_box_gadget_distribute: asse
rtion 'size >= 0' failed in GtkNotebook
(ginkgocadx:976): Gtk-CRITICAL **: 19:52:06.389: gtk box gadget distribute: asse
rtion 'size >= 0' failed in GtkNotebook
(ginkgocadx:976): Gtk-CRITICAL **: 19:52:06.570: gtk_box_gadget_distribute: asse
rtion 'size >= 0' failed in GtkNotebook
'[E: Unable to initialize network, check port 6000 is not in use
 : Enviando al PACS MT_0210: MT_0210@localhost:6000 PDU=16382, TLS=0, User =
 : Enviando al PACS MT 0210: MT 0210@localhost:6000 PDU=16382, TLS=0, User =
```



Time Integrado Resultados

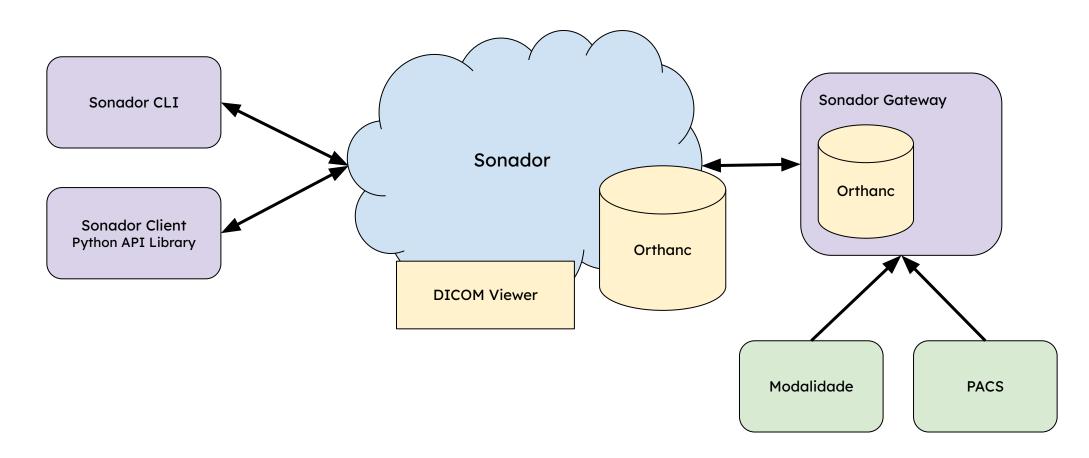
- Abandonar implementações no contexto do DCM Uploader legado
- Compreensão mais detalhada das potencialidades, limitações e desafios do uso do Sonador

Time Integrado Resultados



Time Integrado Resultados

Arquitetura do Sonador



Time Integrado Próximos Passos

- Fundir as equipes e alocá-las na definição das tecnologias empregadas na na arquitetura proposta
- Alguns dos integrantes da equipe irão atuar na busca e teste de alternativas
- Definir perfis dos novos contratados