

# Canon

CANON MEDICAL SYSTEMS DO BRASIL



UNIVERSIDADE  
FEDERAL  
DE PERNAMBUCO

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 08**

06/06/2023


- Otimização das soluções (Dcm4chee e Orthanc) para os cenários validados
- Testes de desempenho considerando toda a estratégia estabelecida durante a implementação das soluções

- Criação de um ambiente de configuração mínima para validação.
  - Configuração do Wireguard para ser utilizado dentro do Docker, permitindo que apenas o Docker com as soluções do Orthanc e Dcm4chee estejam conectados à VPN
  - Integração dos diferentes scripts de configuração e execução
  - Dockerização do Dcm4chee
  - Ambiente automatizado porém ainda instável
    - Gargalos: Demora na inicialização devido ao script integrado ao container

- **Direto\***

- localhost
- +local -> aws (sp1, sp2 e usa)
- aws -> local
- aws -> aws (sp1 -> usa)

- **VPN**

- localhost
- local -> local
- local -> aws
- aws -> aws (sp1 -> usa)  **FALTA**

\*:Perdendo e retornando a conexão

+: Uma e mais de uma máquinas locais

# Orthanc - Cenário: +Local > AWS(USA)

Foo 1

127.0.0.1:8042/app/explorer.html#find-studies

Orthanc Foo » All studies

UploadQuery/RetrieveJobs

Filter items...

STENT PLANNING - Endovascular Stent Planning - EVSP

AP CTA AAA

AP CTA AAA

Tuesday, January 1, 1980

M

OtherPatientIds:

Thursday, July 26, 2018

AccessionNumber:

Canon Medical

ReferringPhysicianName:

StudyInstanceID: 1.2.392.200036.9116.2.6.1.3268.2054276606.1534823344.429172

StudyID: 999999

Vitrea Cardiac 1.5T -

Vitrea WMT QFlow

Vitrea WMT QFlow

Saturday, September 17, 1995

M

OtherPatientIds:

Saturday, February 14, 2015

AccessionNumber: 2015021400000015

InstitutionName: CIVIC IDABASH9

ReferringPhysicianName:

StudyInstanceID: 1.2.392.200036.9116.2.6.1.3268.2054276606.1534823344.429172

StudyID: 999999

RequestingPhysician:

RequestedProcedureDescription:

Foo 2

127.0.0.1:8042/app/explorer.html#find-studies

Orthanc Foo 2 » All studies

UploadQuery/RetrieveJobs

Filter items...

CARDIAC CA SCORE^DLP 50 - CANON CACS ANALYSIS

AA1G-CV-007

AA1G-CV-007

Friday, January 1, 1960

M

OtherPatientIds:

Thursday, September 29, 2016

AccessionNumber: GEN CARDIAC

InstitutionName: CANON

ReferringPhysicianName:

StudyInstanceID: 1.2.392.200036.9116.2.6.1.3268.2054276606.1476299250.733362

StudyID: 999999

34.230.35.224:8044/app/explorer.html#find-studies

Orthanc Bar » All studies

UploadQuery/RetrieveJobs

Filter items...

CARDIAC CA SCORE^DLP 50 - CANON CACS ANALYSIS

AA1G-CV-007

AA1G-CV-007

Friday, January 1, 1960

M

OtherPatientIds:

Thursday, September 29, 2016

AccessionNumber: GEN CARDIAC

InstitutionName: CANON

ReferringPhysicianName:

StudyInstanceID: 1.2.392.200036.9116.2.6.1.3268.2054276606.1476299250.733362

StudyID: 999999

STENT PLANNING - Endovascular Stent Planning - EVSP

AP CTA AAA

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Tuesday, January 1, 1980

M

OtherPatientIds:

Thursday, July 26, 2018

AccessionNumber:

Canon Medical

ReferringPhysicianName:

StudyInstanceID: 1.2.392.200036.9116.2.6.1.3268.2054276606.1534823344.429172

StudyID: 999999

Vitrea Cardiac 1.5T -

Vitrea WMT QFlow

Vitrea WMT QFlow

Saturday, September 17, 1995

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OtherPatientIds:

Saturday, February 14, 2015

AccessionNumber: 2015021400000015

InstitutionName: CIVIC IDABASH9

ReferringPhysicianName:

StudyInstanceID: 1.2.392.200036.9116.2.6.1.3268.2054276606.1534823344.429172

StudyID: 999999

RequestingPhysician:

RequestedProcedureDescription:

34.230.35.224:8044/app/explorer.html#study?uuid=fe74a79b-4fb41f44-84b2fed8-c7b1...

Bar

# Orthanc - Cenário: AWS(SP1) > AWS(USA)

ORT<sup>H</sup>ANC

Orthanc Foo

Statistics

# Studies	13
# Series	78
# Instances	7809
Storage Size	5.23 GB

Orthanc System Info

Orthanc Version	1.12.0
DICOM AET	ORTHANC
Orthanc Name	Orthanc Foo
DICOM Port	4242
Ingest transcoding	
Overwrite instances	false
Storage Compression	false

Verbosity Level

Default Verbose Trace

Installed Plugins

Plugins that are loaded but not enabled or not configured correctly are ~~striked through~~

gdc	Decoder/transcoder of medical images using GDCM.	1.5
orthanc-explorer-2	Advanced User Interface for Orthanc	0.9.3

English

ORT<sup>H</sup>ANC

Orthanc Bar

Statistics

# Studies	13
# Series	78
# Instances	7809
Storage Size	5.23 GB

Orthanc System Info

Orthanc Version	1.11.3
DICOM AET	ORTHANC
Orthanc Name	Orthanc Bar
DICOM Port	4242
Ingest transcoding	
Overwrite instances	false
Storage Compression	false

Verbosity Level

Default Verbose Trace

Installed Plugins

Plugins that are loaded but not enabled or not configured correctly are ~~striked through~~

gdc	Decoder/transcoder of medical images using GDCM.	1.5
orthanc-explorer-2	Advanced User Interface for Orthanc	0.8.2

English

- **Cenário: +Local > AWS(USA)**
  - **1+ Máquina local para máquina da AWS (USA) - 13 min**
- **Cenário: AWS(SP1) > AWS(USA)**
  - **AWS (SP1) para máquina da AWS (USA) sem a VPN - 9 min 30 seg**



- **Direto**

- localhost
- local -> aws (sp1, sp2 e usa)
- aws -> local
- aws -> aws (sp1 -> usa)

- **Mirror**

- localhost
- local -> local
- local -> aws
- aws -> local
- aws -> aws (sp1 -> usa)

- **VPN**

- localhost
- local -> local
- local -> aws  FALTA
- aws -> aws (sp1 -> usa)  FALTA



# Resultados - DCM4chee - SEM Criptografia

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-1596.3750 R>1.2.392.200036.9116.2.6.1.3268.2055265415.1475112798.784860.1 @ 4[TOSHIBA_ICF 4
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# Resultados - DCM4chee - COM Criptografia

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3ºð)|CZµü\_8"\\Ü w\lv+



# Resultados - DCM4chee - Testes de Performance

```
ilika-03@ilika03-Dell-G15-5520: ~/... x   ilika-03@ilika03-Dell-G15-5520: ~/... x   ilika-03@ilika03-Dell-G15-5520: ~/... x   v
medscantrack_1 | 19:47:12 0|medscan | httpmirror error on GET: Error: connect EHOSTUNREACH 34.230.35.2
24:8383
medscantrack_1 | 19:47:12 0|medscan |      at TCPConnectWrap.afterConnect [as oncomplete] (node:net:149
4:16) {
medscantrack_1 | 19:47:12 0|medscan |      errno: -113,
medscantrack_1 | 19:47:12 0|medscan |      code: 'EHOSTUNREACH',
medscantrack_1 | 19:47:12 0|medscan |      syscall: 'connect',
medscantrack_1 | 19:47:12 0|medscan |      address: '34.230.35.224',
medscantrack_1 | 19:47:12 0|medscan |      port: 8383
medscantrack_1 | 19:47:12 0|medscan | }
medscantrack_1 | 19:52:32 0|medscan | Notified -> 103 files from http://34.230.35.224:8383
medscantrack_1 | 19:52:32 0|medscan | missing 103
medscantrack_1 | 19:52:43 0|medscan | Done receiving mirror file: /scp/sw22d8l/sw22d8l.zip
medscantrack_1 | 19:52:43 0|medscan | SELF SCU /scp/sw22d8l --> LOCAL@127.0.0.1:6000
medscantrack_1 | 19:52:43 0|medscan | SELF SCU done
medscantrack_1 | 19:52:43 0|medscan | Done processing mirror file
medscantrack_1 | 19:53:02 0|medscan | Notified -> 38 files from http://34.230.35.224:8383
medscantrack_1 | 19:53:02 0|medscan | missing 38
medscantrack_1 | 19:53:05 0|medscan | Done receiving mirror file: /scp/4r8b5o9/4r8b5o9.zip
medscantrack_1 | 19:53:05 0|medscan | SELF SCU /scp/4r8b5o9 --> LOCAL@127.0.0.1:6000
medscantrack_1 | 19:53:05 0|medscan | SELF SCU done
medscantrack_1 | 19:53:05 0|medscan | Done processing mirror file
medscantrack_1 | 19:53:20 0|medscan | Metadata [141 new files]
```

**local -> local:**

Estudo: fatty liver

Mirror: **33s**

VPN: **8s**

# Resultados - DCM4chee - Testes de Performance

```
medscantrack_1 | 15:38:01 0|medscan | SCU /scp/34.230.35.224_6060 --> LOCAL@34.230.35.224:6060 [7767 files]
medscantrack_1 | 15:46:09 0|medscan | done in 08m7.59s
medscantrack_1 | 15:46:09 0|medscan | Notify http://34.230.35.224:8383/notify -> 7767 files


medscantrack-medsantrack-1 | 15:24:34 0|medscan | SCP started at LOCAL:6000
medscantrack-medsantrack-1 | 15:24:34 0|medscan | API is running on port 8080
medscantrack-medsantrack-1 | 15:46:12 0|medscan | Notified -> 7767 files from http://34.230.35.224:8383
medscantrack-medsantrack-1 | 15:46:12 0|medscan | missing 7767
medscantrack-medsantrack-1 | 15:56:56 0|medscan | Done receiving mirror file: /scp/nip7v6o/nip7v6o.zip
medscantrack-medsantrack-1 | 15:58:28 0|medscan | SELF SCU /scp/nip7v6o --> LOCAL@127.0.0.1:6000
medscantrack-medsantrack-1 | 15:59:13 0|medscan | Metadata [1760 new files]
medscantrack-medsantrack-1 | 16:00:40 0|medscan | SELF SCU done
medscantrack-medsantrack-1 | 16:00:40 0|medscan | Done processing mirror file
medscantrack-medsantrack-1 | 16:00:59 0|medscan | Metadata [6007 new files]
```

aws (sp1) -> aws (usa):

Direto: 8 min

Estudo: todos

Mirror: 16 min

VPN:  FALTA

- Estudo de técnicas de compactação mínima para ambas as soluções, Orthanc e Dcm4chee
- Continuação dos testes de desempenho e performance
- Continuação do desenvolvimento do cenário “zero configuration”
- Validação das soluções com CMB