



Zoo Architecture

19 Jun 2023 19:20:52

Purpose

An ArchiMate model for Zoo. This model is used to: 1) Maintain an architecture of my personal IT initiatives for documentation purposes. 2) Practice ArchiMate modeling to develop and maintain my modeling skills. 3) Educate and spread awareness on the importance of enterprise architecture and how to use the ArchiMate framework. The Capability Map is a good starting point to follow along and understand the model. Tag dictionary: {"D"=deprecated, "R"=redacted, "E"=elsewhere}. *This project is licensed under the MIT license*

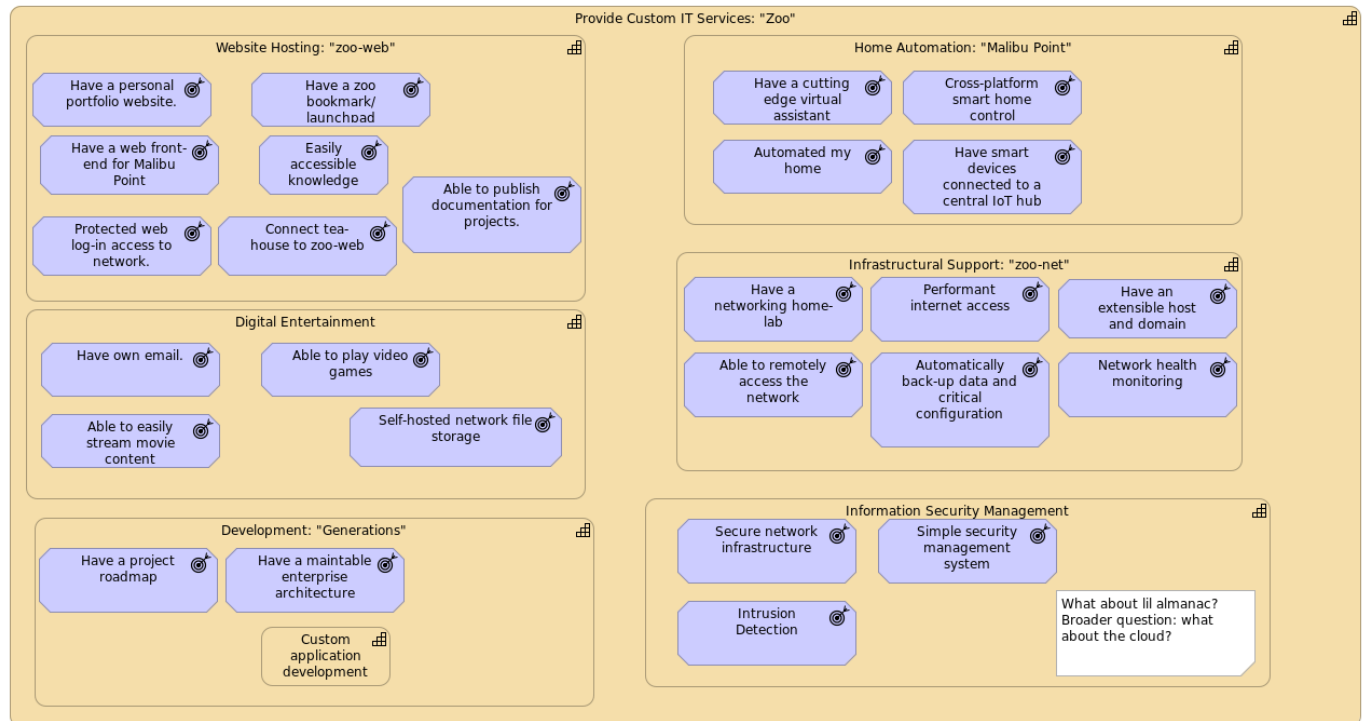
Properties

author	Frost
source	https://github.com/FrostTusk/Zoo-ArchiMate
version	1.3

Views

[!] Capability Map

Capability viewpoint



Documentation

Outlines the capabilities of Zoo.

Properties

author	Frost
version	1.1
status	draft

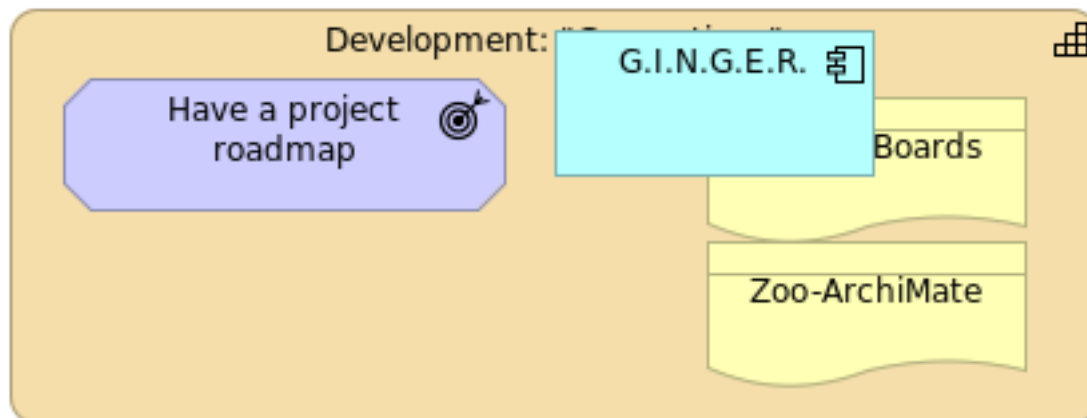
Elements

Element	Type
Able to easily stream movie content	Outcome
Able to play video games	Outcome
Able to publish documentation for projects.	Outcome
Able to remotely access the network	Outcome
Automated my home	Outcome
Automatically back-up data and critical configuration	Outcome
Connect tea-house to zoo-web	Outcome
Cross-platform smart home control	Outcome
Custom application development	Capability
Development	Capability

Element	Type
Digital Entertainment	Capability
Easily accessible knowledge	Outcome
Have a cutting edge virtual assistant	Outcome
Have a maintable enterprise architecture	Outcome
Have a networking home-lab	Outcome
Have a personal portfolio website.	Outcome
Have a project roadmap	Outcome
Have a web front-end for Malibu Point	Outcome
Have a zoo bookmark/launchpad	Outcome
Have an extensible host and domain naming scheme	Outcome
Have own email.	Outcome
Have smart devices connected to a central IoT hub	Outcome
Home Automation	Capability
Information Security Management	Capability
Infrastructural Support	Capability
Intrusion Detection	Outcome
Network health monitoring	Outcome
Performant internet access	Outcome
Protected web log-in access to network.	Outcome
Provide Custom IT Services	Capability
Secure network infrastructure	Outcome
Self-hosted network file storage	Outcome
Simple security management system	Outcome
Website Hosting	Capability

[GE] Capability Realization

No viewpoint

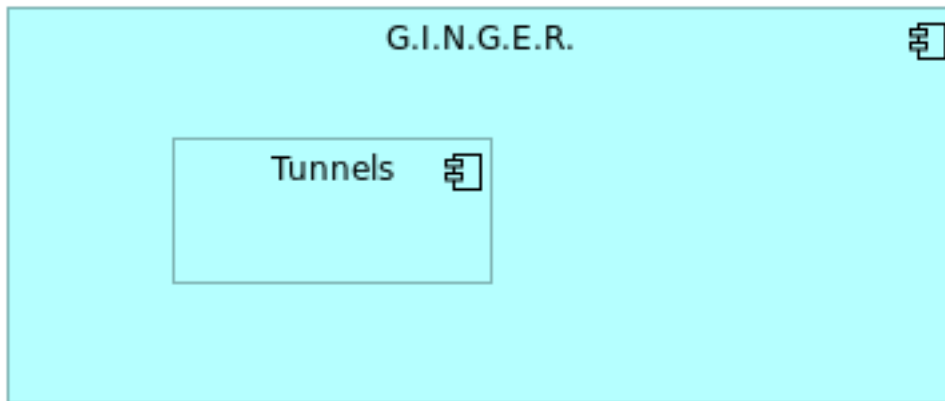


Elements

Element	Type
Development	Capability
G.I.N.G.E.R.	Application Component
GitHub Boards	Representation
Have a project roadmap	Outcome
Zoo-ArchiMate	Representation

[GEGI] G.I.N.G.E.R.

Application Structure viewpoint

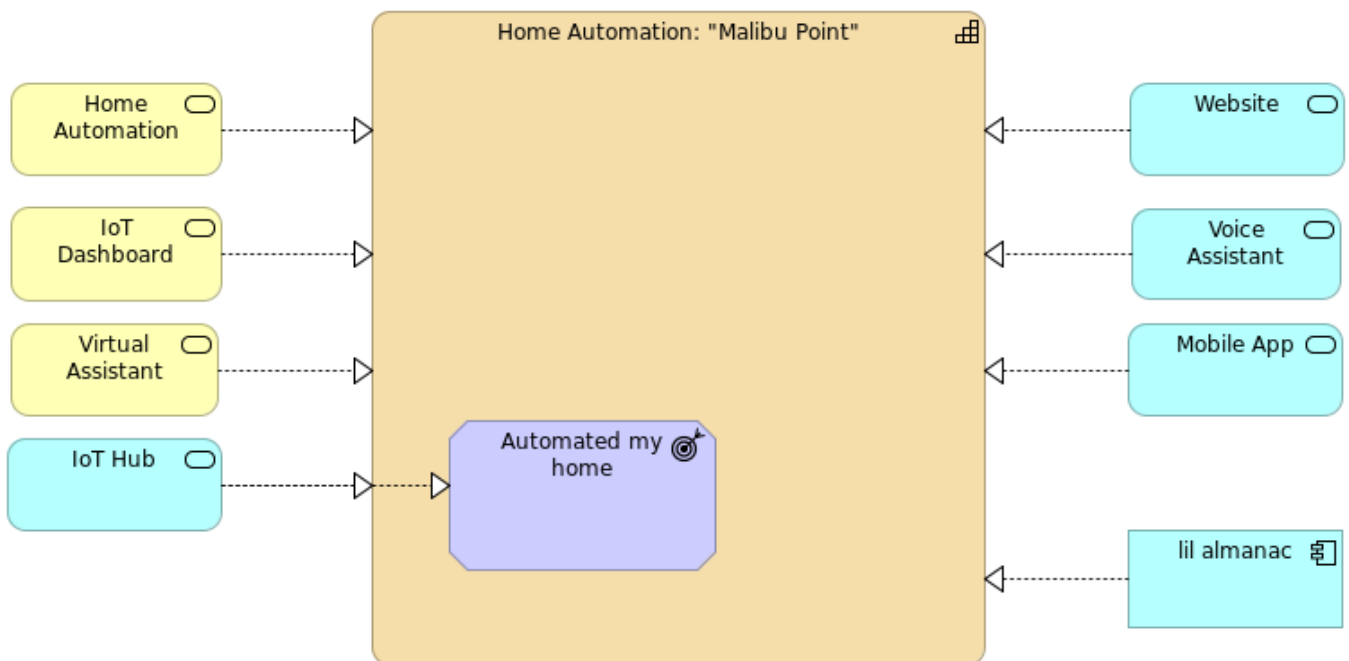


Elements

Element	Type
G.I.N.G.E.R.	Application Component
Tunnels	Application Component

[MP] Capability Realization

Outcome Realization viewpoint

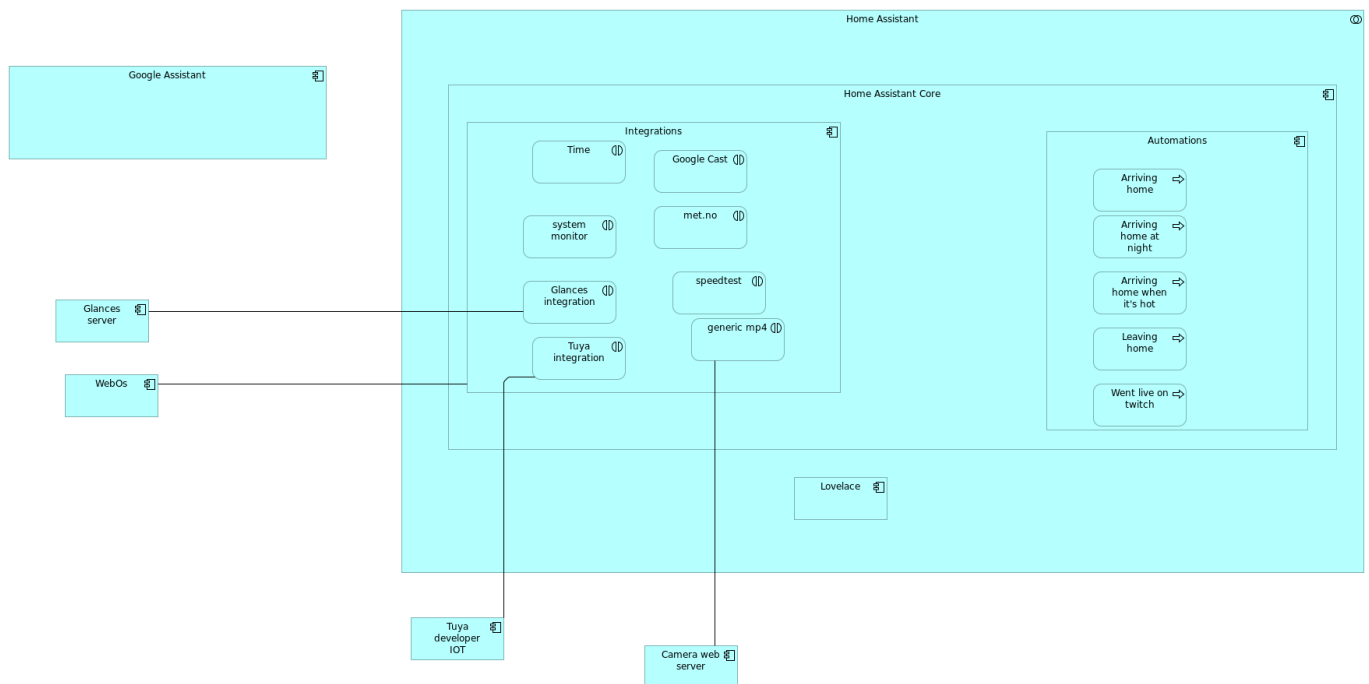


Elements

Element	Type
Automated my home	Outcome
Home Automation	Capability
Home Automation	Business Service
IoT Dashboard	Business Service
IoT Hub	Application Service
lil almanac	Application Component
Mobile App	Application Service
Virtual Assistant	Business Service
Voice Assistant	Application Service
Website	Application Service

[MP] Home Assistant Usage

Application Usage viewpoint



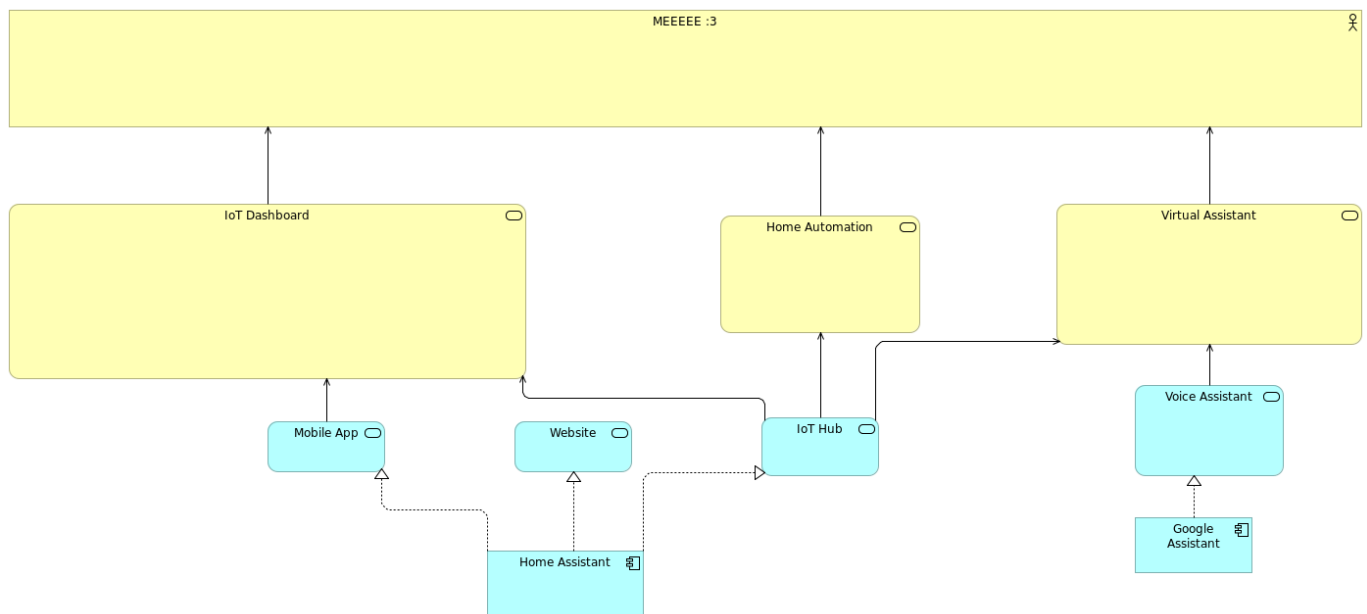
Elements

Element	Type
Arriving home	Application Process
Arriving home at night	Application Process
Arriving home when it's hot	Application Process
Automations	Application Component
Camera web server	Application Component
generic mp4	Application Interaction
Glances integration	Application Interaction
Glances server	Application Component
Google Assistant	Application Component
Google Cast	Application Interaction
Home Assistant	Application Collaboration
Home Assistant Core	Application Component
Integrations	Application Component
Leaving home	Application Process
Lovelace	Application Component
met.no	Application Interaction
speedtest	Application Interaction
system monitor	Application Interaction
Time	Application Interaction
Tuya developer IOT	Application Component
Tuya integration	Application Interaction
WebOs	Application Component
Went live on twitch	Application Process



[MP] Layered Services

Layered viewpoint



Documentation

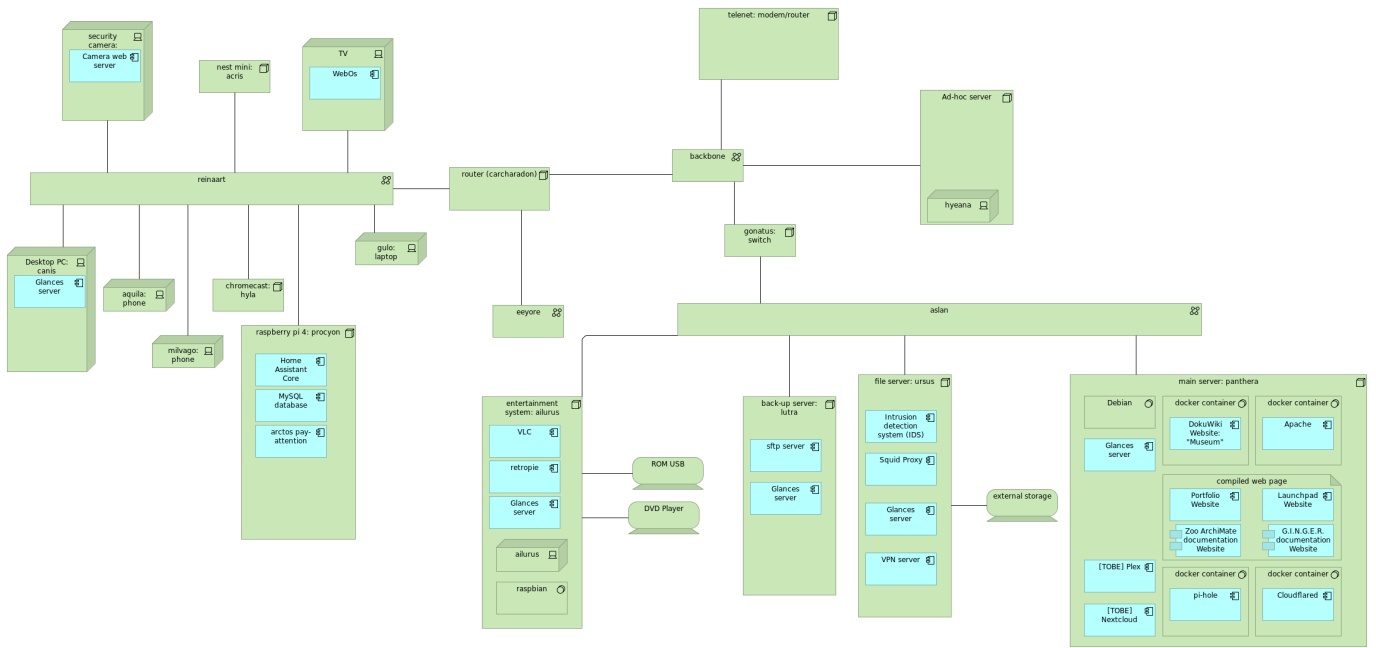
Shows how Malibu-Point services interact with each other to provide the desired Home Automation functionality.

Elements

Element	Type
Google Assistant	Application Component
Home Assistant	Application Component
Home Automation	Business Service
IoT Dashboard	Business Service
IoT Hub	Application Service
MEEEEEE :3	Business Actor
Mobile App	Application Service
Virtual Assistant	Business Service
Voice Assistant	Application Service
Website	Application Service

[ZN] On-Premise Technology

Technology Usage viewpoint



Documentation

This view shows the various devices connected to the zoo-net on-premise network.
To-Do's: 1, Add IP addresses 2. Validate properties

Properties

author	Frost
version	1.2
status	draft

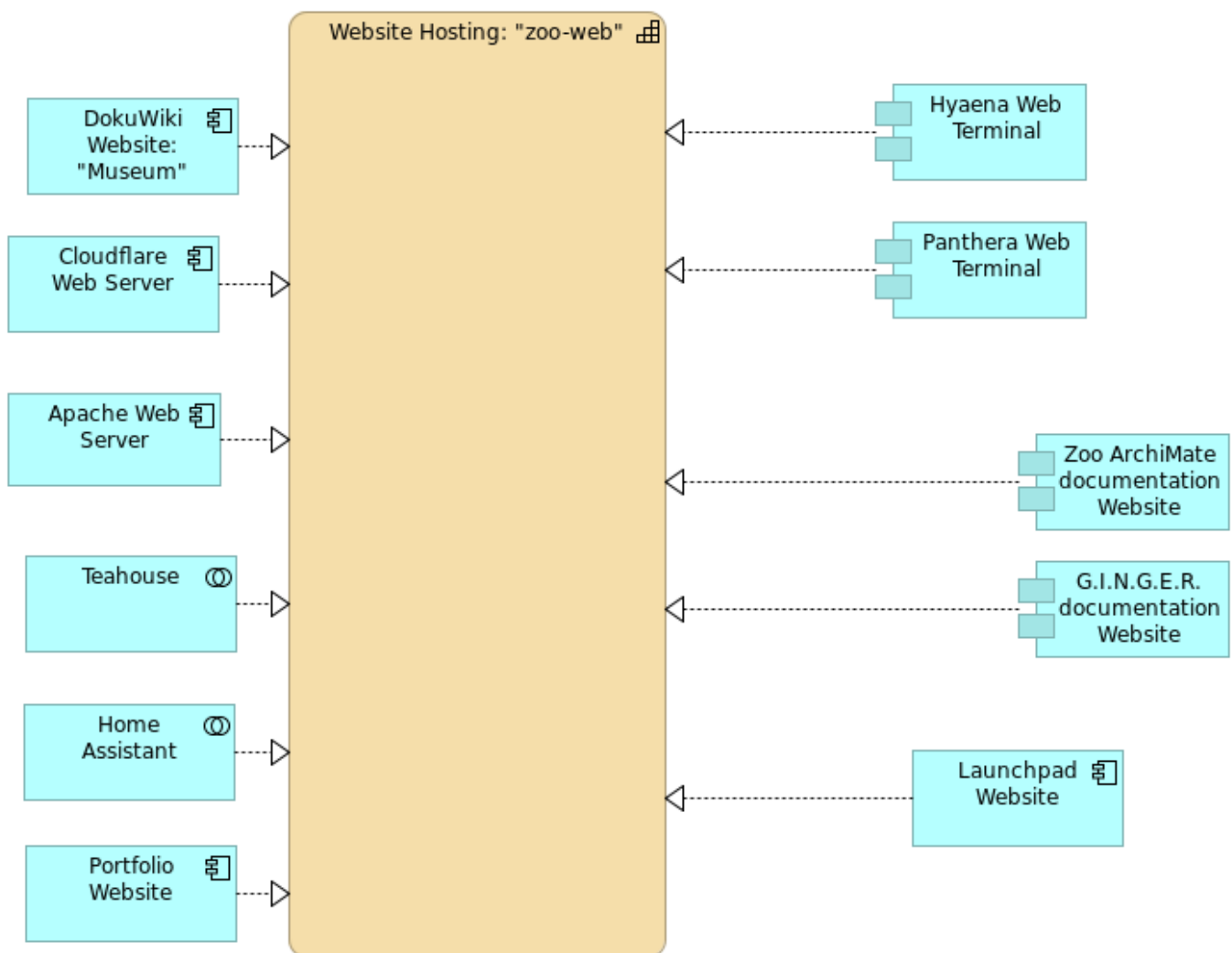
Elements

Element	Type
[TOBE] Nextcloud	Application Component
[TOBE] Plex	Application Component
Ad-hoc server	Node
ailurus	Device
Apache	Application Component (Web Server)
aquila: phone	Device
arctos pay-attention	Application Component
aslan	Communication Network
back-up server	Node
backbone	Communication Network
Camera web server	Application Component
chromecast	Node
Cloudflared	Application Component
compiled web page	Artifact
Debian	System Software (Operating System)

Element	Type
Desktop PC	Device
docker container	System Software
DokuWiki	Application Component (Website)
DVD Player	Device
eeyore	Communication Network
entertainment system	Node
external storage	Device
file server	Node
G.I.N.G.E.R. documentation	Application Component (Website)
Glances server	Application Component
gonatus: switch	Node
gulo: laptop	Device
Home Assistant Core	Application Component
hyeana	Device
Intrusion detection system (IDS)	Application Component
Launchpad	Application Component (Website)
main server	Node
milvago: phone	Device
MySQL database	Application Component
nest mini	Node
pi-hole	Application Component
Portfolio	Application Component (Website)
rasberry pi 4	Node
raspbian	System Software (Operating System)
reinaart	Communication Network
retropie	Application Component
ROM USB	Device
router (carcharadon)	Node
security camera	Device
sftp server	Application Component
Squid Proxy	Application Component
telenet: modem/router	Node
TV	Device
VLC	Application Component
VPN server	Application Component
WebOs	Application Component
Zoo ArchiMate documentation	Application Component (Website)

[ZW] Capability Realization

Outcome Realization viewpoint



Documentation

| Shows what main components realize the zoo-web capability.

Properties

author	Frost
version	1.0
status	draft

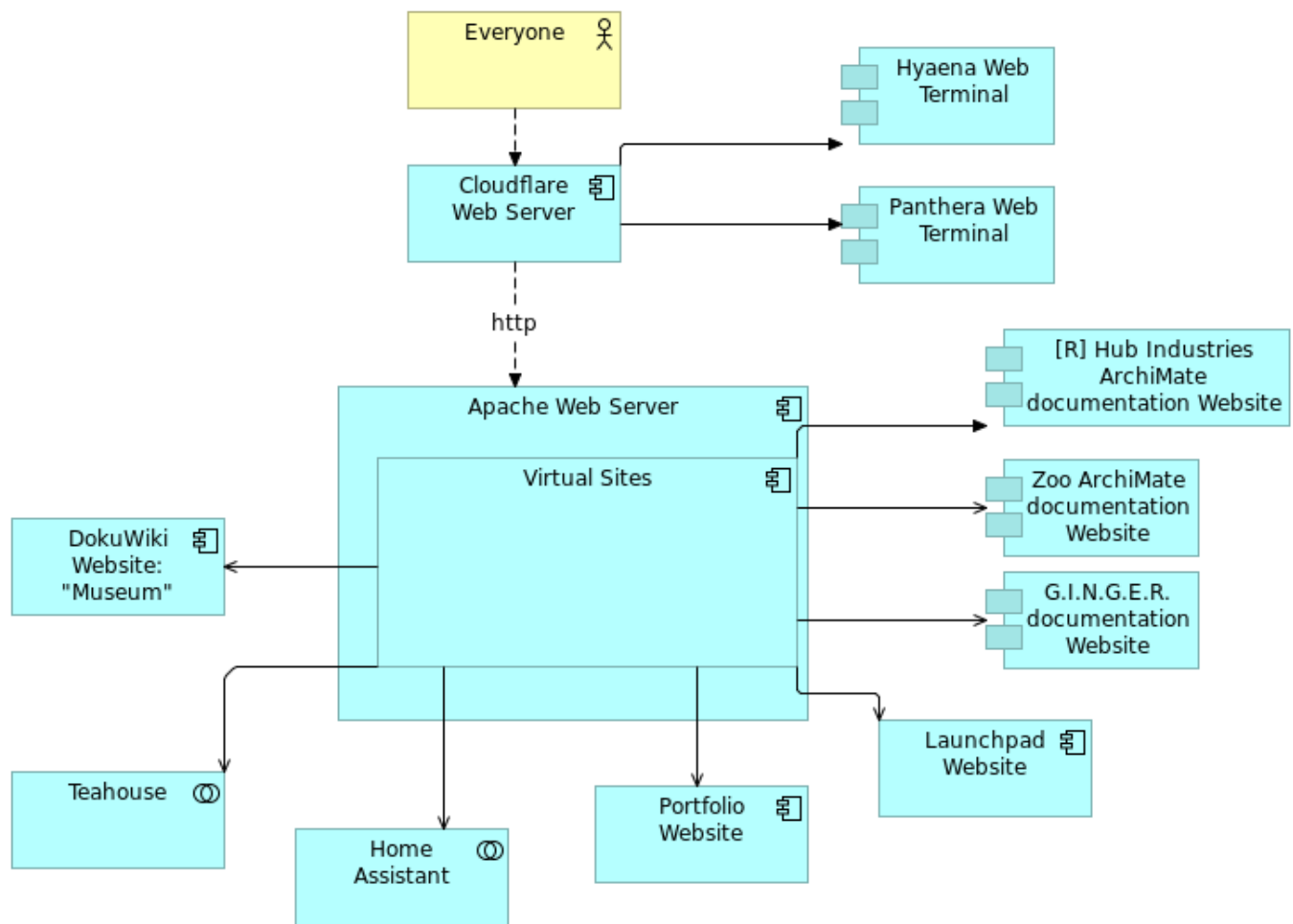
Elements

Element	Type
Apache	Application Component (Web Server)
Cloudflare	Application Component (Web Server)
DokuWiki	Application Component (Website)
G.I.N.G.E.R. documentation	Application Component (Website)
Home Assistant	Application Collaboration
Hyaena Web Terminal	Application Component (Website)

Element	Type
Launchpad	Application Component (Website)
Panthera Web Terminal	Application Component (Website)
Portfolio	Application Component (Website)
Teahouse	Application Collaboration
Website Hosting	Capability
Zoo ArchiMate documentation	Application Component (Website)

[ZW] Hosting Usage

Application Usage viewpoint



Documentation

Outlines the usage of the various websites and related applications hosted by Zoo.

Properties

author	Frost
version	1.1
status	draft

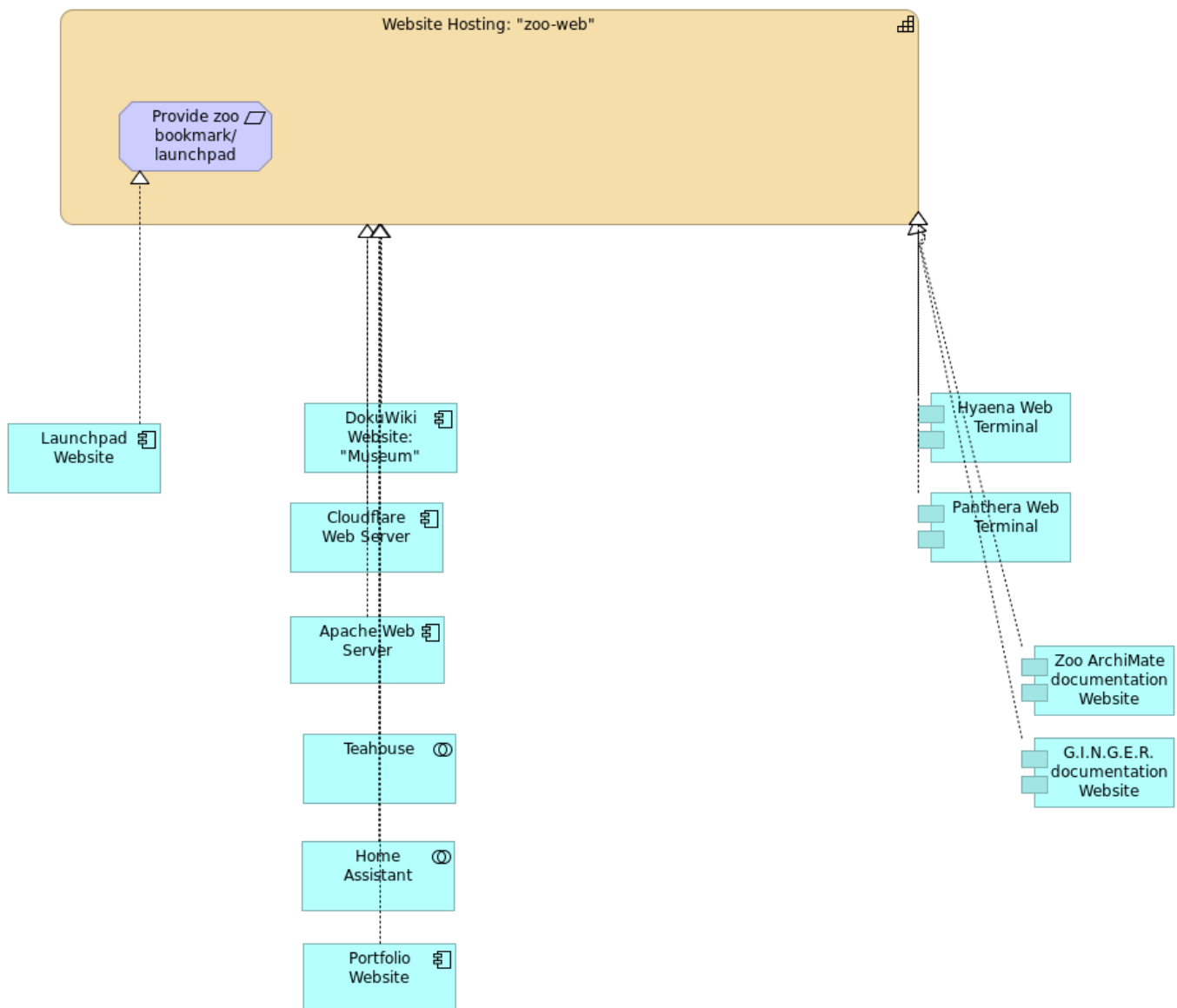
Elements

Element	Type
[R] Hub Industries ArchiMate documentation Website	Application Component
Apache	Application Component (Web Server)
Cloudflare	Application Component (Web Server)
DokuWiki	Application Component (Website)
Everyone	Business Actor
G.I.N.G.E.R. documentation	Application Component (Website)
Home Assistant	Application Collaboration

Element	Type
Hyaena Web Terminal	Application Component (Website)
Launchpad	Application Component (Website)
Panthera Web Terminal	Application Component (Website)
Portfolio	Application Component (Website)
Teahouse	Application Collaboration
Virtual Sites	Application Component
Zoo ArchiMate documentation	Application Component (Website)

[ZW] Testing Requirements

Requirements Realization viewpoint



Elements

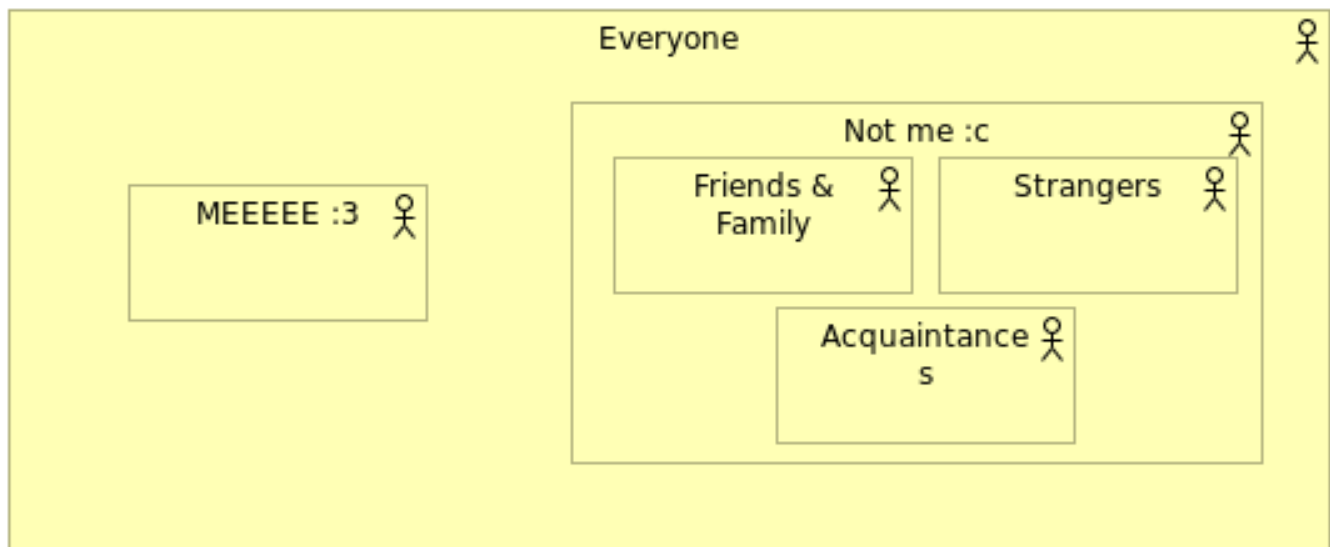
Element	Type
Apache	Application Component (Web Server)
Cloudflare	Application Component (Web Server)
DokuWiki	Application Component (Website)
G.I.N.G.E.R. documentation	Application Component (Website)
Home Assistant	Application Collaboration
Hyaena Web Terminal	Application Component (Website)
Launchpad	Application Component (Website)
Panthera Web Terminal	Application Component (Website)
Portfolio	Application Component (Website)
Provide zoo bookmark/launchpad	Requirement
Teahouse	Application Collaboration
Website Hosting	Capability



Element	Type
Zoo ArchiMate documentation	Application Component (Website)

People

Organization viewpoint



Documentation

Shows the main actors involved in interactions with Zoo.

Properties

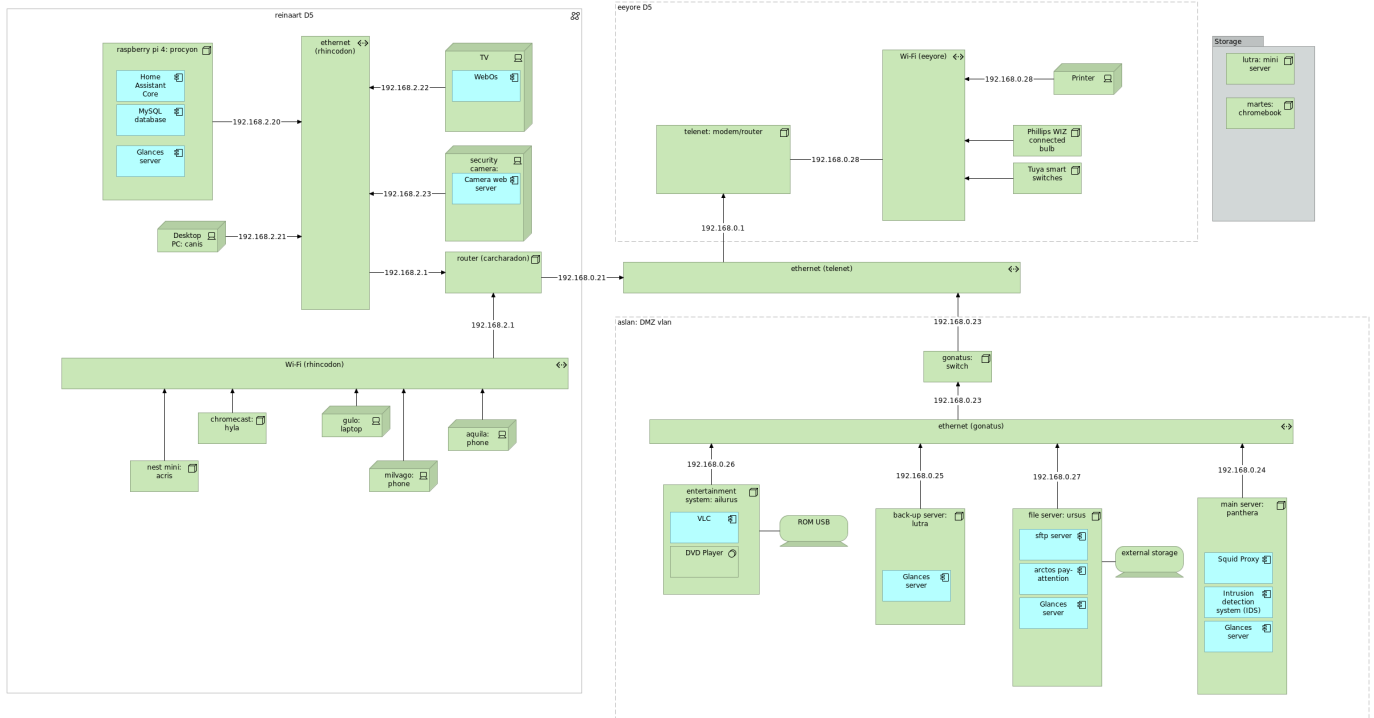
author	Frost
version	1.1
status	release

Elements

Element	Type
Acquaintances	Business Actor
Everyone	Business Actor
Friends & Family	Business Actor
MEEEEE :3	Business Actor
Not me :c	Business Actor
Strangers	Business Actor

Infrastructure (D5)

No viewpoint



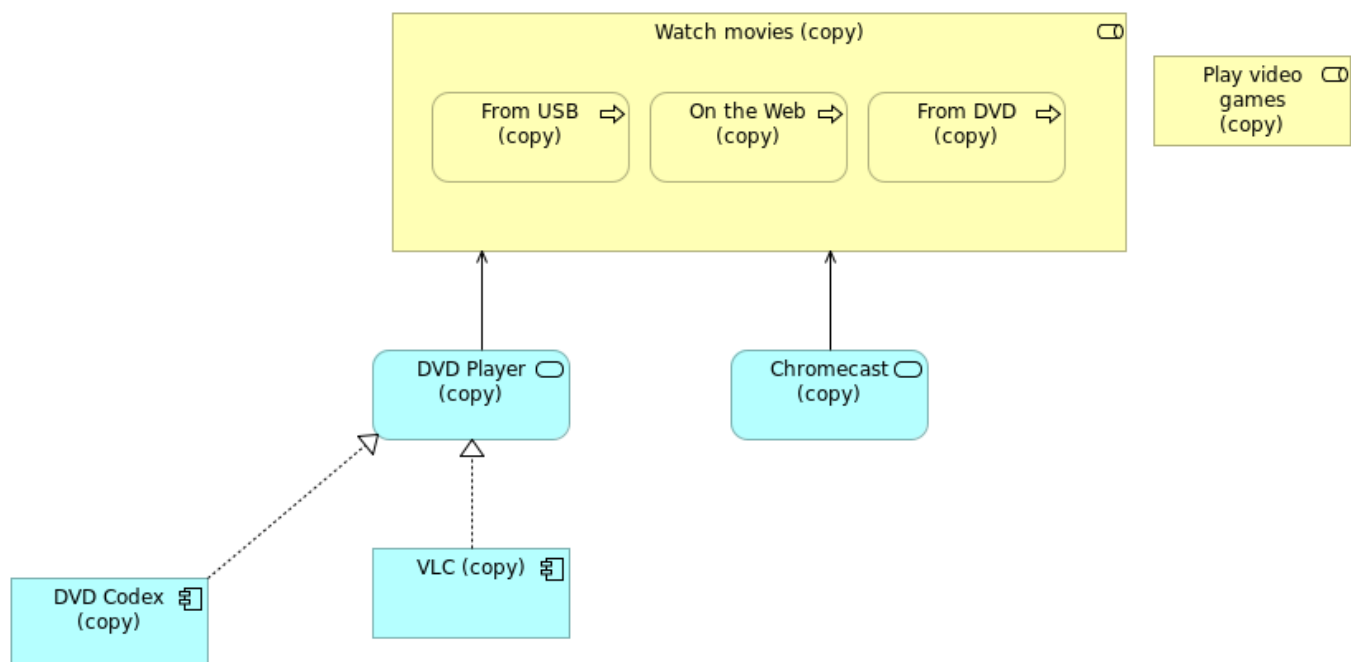
Elements

Element	Type
aquila: phone	Device
arctos pay-attention	Application Component
aslan: DMZ vlan	Grouping
back-up server	Node
Camera web server	Application Component
chromecast	Node
Desktop PC	Device
DVD Player	System Software
eeyore D5	Grouping
entertainment system	Node
ethernet (gonatus)	Path
ethernet (rhincodon)	Path
ethernet (telenet)	Path
external storage	Device
file server	Node
Glances server	Application Component
gonatus: switch	Node
gulo: laptop	Device
Home Assistant Core	Application Component
Intrusion detection system (IDS)	Application Component
lutra: mini server	Node
main server	Node

Element	Type
martes: chromebook	Node
milvago: phone	Device
MySQL database	Application Component
nest mini	Node
Phillips WIZ connected bulb	Node
Printer	Device
raspberry pi 4	Node
reinaart D5	Communication Network
ROM USB	Device
router (carcharadon)	Node
security camera	Device
sftp server	Application Component
Squid Proxy	Application Component
telenet: modem/router	Node
Tuya smart switches	Node
TV	Device
VLC	Application Component
WebOs	Application Component
Wi-Fi (eeyore)	Path
Wi-Fi (rhincodon)	Path

layered

No viewpoint



Elements

Element	Type
Chromecast (copy)	Application Service
DVD Codex (copy)	Application Component
DVD Player (copy)	Application Service
From DVD (copy)	Business Process
From USB (copy)	Business Process
On the Web (copy)	Business Process
Play retro games (copy)	Business Process
Play video games (copy)	Business Role
VLC (copy)	Application Component
Watch movies (copy)	Business Role

Strategy Layer

Custom application development

Type	Capability
-------------	------------

Development

Type	Capability
codename	Generations

Zoo is responsible for developing custom technology to suit my needs. Part of this capability is also to provide the necessary development artefacts to support Zoo.

Digital Entertainment

Type	Capability
-------------	------------

Home Automation

Type	Capability
codename	Malibu Point

Malibu Point is a smart home infrastructure which makes use of (amongst others) Home Assistant, Google Home and various custom components. It is thus the entire architecture of the smart electronics within my house.

Information Security Management

Type	Capability
-------------	------------

Infrastructural Support

Type	Capability
codename	zoo-net

A DIY home lab and computer network, originally built by recycling old computer equipment. Zoo provides infrastructural support upon which other technology can be built. This mostly consists of networking, storage, and server space. It consists of various interconnected computer networks.

Provide Custom IT Services

Type	Capability
codename	Zoo

Zoo stylized z00 is my personal IT service provider. It is the digital partner of Hub Industries . Amongst others it contains an entire computer network, IoT ecosystem, and a wide variety of public services.

Website Hosting

Type	Capability
codename	zoo-web

Provides the ability to publish websites.

Business Layer

Access online knowledge base

Type	Business Process
------	------------------

Acquaintances

Type	Business Actor
------	----------------

People I know but don't fully trust.

DVD playing

Type	Business Service
------	------------------

Everyone

Type	Business Actor
------	----------------

Friends & Family

Type	Business Actor
------	----------------

People I know and trust.

From DVD (copy)

Type	Business Process
------	------------------

From USB (copy)

Type	Business Process
------	------------------

GitHub Boards

Type	Representation
------	----------------

Home Automation

Type	Business Service
------	------------------

Infrastructural support: Zoo-net

Type	Business Service
------	------------------

IoT Dashboard

Type	Business Service
------	------------------

Knowledge base: MUSEUM

Type	Business Service
------	------------------

MEEEEEE :3

Type	Business Actor
------	----------------

codename	Frost
-----------------	-------

This represents me (Frost).

Multimedia

Type	Business Service
-------------	------------------

Not me :c

Type	Business Actor
-------------	----------------

This represent everyone that isn't me.

Old games

Type	Business Service
-------------	------------------

On the Web (copy)

Type	Business Process
-------------	------------------

Play retro games (copy)

Type	Business Process
-------------	------------------

Play video games (copy)

Type	Business Role
-------------	---------------

Portfolio Journey

Type	Business Process
-------------	------------------

Static Webpage deployment: Zoo-web

Type	Business Service
-------------	------------------

Strangers

Type	Business Actor
-------------	----------------

People I don't know and don't trust.

Virtual Assistant

Type	Business Service
-------------	------------------

Watch movies (copy)

Type	Business Role
-------------	---------------

Zoo-ArchiMate

Type	Representation
-------------	----------------

Application Layer

[R] Hub Industries ArchiMate documentation Website

Type	Application Component
------	-----------------------

[TOBE] Nextcloud

Type	Application Component
------	-----------------------

[TOBE] Plex

Type	Application Component
------	-----------------------

Apache

Type	Application Component (Web Server)
------	------------------------------------

Currently on-going debate on whether to bring Apache into Mk 5 or not (replace with Nginx).

Application Service

Type	Application Service
------	---------------------

arctos pay-attention

Type	Application Component
------	-----------------------

Arriving home

Type	Application Process
------	---------------------

Arriving home at night

Type	Application Process
------	---------------------

Arriving home when it's hot

Type	Application Process
------	---------------------

Automations

Type	Application Component
------	-----------------------

Camera web server

Type	Application Component
------	-----------------------

Chromecast (copy)

Type	Application Service
------	---------------------

Cloudflare

Type	Application Component (Web Server)
------	------------------------------------

Cloudflared

Type	Application Component
-------------	-----------------------

Database

Type	Application Component
-------------	-----------------------

Documentation website

Type	Application Service
-------------	---------------------

DokuWiki

Type	Application Component (Website)
codename	Museum
domain	wiki.hub.industries

The Zoo Museum is a wiki dedicated to Hub Industries and its various endeavours.

DVD Codex (copy)

Type	Application Component
-------------	-----------------------

DVD Player (copy)

Type	Application Service
-------------	---------------------

file store

Type	Application Component
-------------	-----------------------

G.I.N.G.E.R.

Type	Application Component
-------------	-----------------------

G.I.N.G.E.R. documentation

Type	Application Component (Website)
domain	hub.industries/docs/ginger

generic mp4

Type	Application Interaction
-------------	-------------------------

Glances Client

Type	Application Component
-------------	-----------------------

Glances integration

Type	Application Interaction
-------------	-------------------------

Glances server

Type	Application Component
-------------	-----------------------

Google Assistant

Type	Application Component
-------------	-----------------------

Google Cast

Type	Application Interaction
-------------	-------------------------

Home Assistant

Type	Application Component
-------------	-----------------------

Home Assistant

Type	Application Collaboration
domain	malibu-point.hub.industries

Home Assistant Core

Type	Application Component
-------------	-----------------------

Hyaena Web Terminal

Type	Application Component (Website)
domain	hyaena.terminal.hub.industries

Integrations

Type	Application Component
-------------	-----------------------

Intrusion Detection

Type	Application Service
-------------	---------------------

Intrusion detection system (IDS)

Type	Application Component
-------------	-----------------------

IoT Hub

Type	Application Service
-------------	---------------------

Landing Page

Type	Application Component
-------------	-----------------------

Landing website

Type	Application Service
-------------	---------------------

Launchpad

Type	Application Component (Website)
source	https://github.com/FrostTusk/Landing-Page
domain	hub.industries

Static one-page website that acts as the front-door to Hub Industries.

Launchpad (copy)

Type	Application Component (Website)
source	https://github.com/FrostTusk/Landing-Page
domain	hub.industries

Static one-page website that acts as the front-door to Hub Industries.

Leaving home

Type	Application Process
-------------	---------------------

lil almanac

Type	Application Component
-------------	-----------------------

Lovelace

Type	Application Component
-------------	-----------------------

M.I.S.T.R.A.

Type	Application Component
-------------	-----------------------

Malibu Point Home Assistant

Type	Application Component
-------------	-----------------------

met.no

Type	Application Interaction
-------------	-------------------------

Mobile App

Type	Application Service
-------------	---------------------

MySQL database

Type	Application Component
-------------	-----------------------

Panthera Web Terminal

Type	Application Component (Website)
domain	panthera.terminal.hub.industries

Personal Website

Type	Application Component
-------------	-----------------------

pi-hole

Type	Application Component
-------------	-----------------------

Portfolio

Type	Application Component (Website)
domain	hub.industries/me

Portfolio is my virtual business card. Showcasing all my various cool projects in a public-friendly manner.

Portfolio website

Type	Application Service
-------------	---------------------

Proxy

Type	Application Service
-------------	---------------------

Remote access

Type	Application Service
-------------	---------------------

retroPie

Type	Application Component
-------------	-----------------------

sftp server

Type	Application Component
-------------	-----------------------

speedtest

Type	Application Interaction
-------------	-------------------------

Squid Proxy

Type	Application Component
-------------	-----------------------

SSH

Type	Application Component
-------------	-----------------------

system monitor

Type	Application Interaction
-------------	-------------------------

Teahouse

Type	Application Collaboration
domain	hub.industries/teahouse

Time

Type	Application Interaction
-------------	-------------------------

Tunnels

Type	Application Component
-------------	-----------------------

Tuya developer IOT

Type	Application Component
-------------	-----------------------

Tuya integration

Type	Application Interaction
-------------	-------------------------

UFW

Type	Application Component
-------------	-----------------------

This program is for managing a Linux firewall and aims to provide an easy to use interface for the user.

Virtual Sites

Type	Application Component
-------------	-----------------------

VLC

Type	Application Component
-------------	-----------------------

VLC (copy)

Type	Application Component
-------------	-----------------------

Voice Assistant

Type	Application Service
-------------	---------------------

VPN

Type	Application Component
-------------	-----------------------

VPN server

Type	Application Component
-------------	-----------------------

WebOs

Type	Application Component
-------------	-----------------------

Website

Type	Application Service
-------------	---------------------

Went live on twitch


Type	Application Process
-------------	---------------------

Wiki

Type	Application Service
-------------	---------------------

Zoo ArchiMate documentation

Type	Application Component (Website)
domain	hub.industries/docs/architecture/zoo



Zoo Museum

Type	Application Component
-------------	-----------------------

Zoo Web

Type	Application Component
-------------	-----------------------

Technology & Physical Layer

Ad-hoc server

Type	Node
-------------	------

ailurus

Type	Device
model	Raspberry pi 3b

aquila: phone

Type	Device
-------------	--------

aslan

Type	Communication Network
-------------	-----------------------

back-up server

Type	Node
hostname	lutra
operating system	debian

backbone

Type	Communication Network
-------------	-----------------------

chromecast

Type	Node
hostname	hyla

compiled web page

Type	Artifact
-------------	----------

Debian

Type	System Software (Operating System)
-------------	------------------------------------

Desktop PC

Type	Device
hostname	canis

docker container

Type	System Software
-------------	-----------------

DVD Player

Type	System Software
-------------	-----------------

DVD Player

Type	Device
-------------	--------

eeeyore

Type	Communication Network
-------------	-----------------------

entertainment system

Type	Node
hostname	ailurus

ethernet (gonatus)

Type	Path
-------------	------

ethernet (rhincodon)

Type	Path
-------------	------

ethernet (telenet)

Type	Path
-------------	------

external storage

Type	Device
hostname	varanus

file server

Type	Node
hostname	ursus

Firewall configuration

Type	Artifact
-------------	----------

gonatus: switch

Type	Node
-------------	------

gulo: laptop

Type	Device
-------------	--------

hyeana

Type	Device
-------------	--------

lutra: mini server

Type	Node
-------------	------

main server

Type	Node
-------------	------

hostname	panthera
operating system	debian

martes: chromebook

Type	Node
-------------	------

milvago: phone

Type	Device
-------------	--------

nest mini

Type	Node
hostname	acris

Phillips WIZ connected bulb

Type	Node
-------------	------

Printer

Type	Device
hostname	litoria

raspberry pi 4

Type	Node
hostname	procyon

raspbian

Type	System Software (Operating System)
-------------	------------------------------------

reinaart

Type	Communication Network
-------------	-----------------------

reinaart D5

Type	Communication Network
-------------	-----------------------

ROM USB

Type	Device
-------------	--------

router (carcharadon)

Type	Node
hostname	rhincodon

port forward glances servers

security camera

Type	Device
-------------	--------

hostname	amnirana
manufacturer	DLink

telenet: modem/router

Type	Node
-------------	------

Tuya smart switches

Type	Node
-------------	------

TV

Type	Device
-------------	--------

Wi-Fi (eeyore)

Type	Path
-------------	------

Wi-Fi (rhincodon)

Type	Path
-------------	------

Motivation

Able to easily stream movie content

Type	Outcome
------	---------

Able to play DVDs

Able to play video games

Type	Outcome
------	---------

Able to play to retro video games

Able to publish documentation for projects.

Type	Outcome
------	---------

Able to remotely access the network

Type	Outcome
------	---------

Automated my home

Type	Outcome
------	---------

Automatically back-up data and critical configuration

Type	Outcome
------	---------

Connect tea-house to zoo-web

Type	Outcome
------	---------

Cross-platform smart home control

Type	Outcome
------	---------

Easily accessible knowledge

Type	Outcome
------	---------

Have a cutting edge virtual assistant

Type	Outcome
------	---------

Have a maintable enterprise architecture

Type	Outcome
------	---------

Have a networking home-lab

Type	Outcome
------	---------

Have a personal portfolio website.

Type	Outcome
------	---------

Have a project roadmap

Type	Outcome
------	---------

Have a web front-end for Malibu Point

Type	Outcome
------	---------

Have a zoo bookmark/launchpad

Type	Outcome
------	---------

Have an extensible host and domain naming scheme

Type	Outcome
------	---------

Have own email.

Type	Outcome
------	---------

Have smart devices connected to a central IoT hub

Type	Outcome
------	---------

Intrusion Detection

Type	Outcome
------	---------

Network health monitoring

Type	Outcome
------	---------

Performant internet access

Type	Outcome
------	---------

Protected web log-in access to network.

Type	Outcome
------	---------

Provide zoo bookmark/launchpad

Type	Requirement
------	-------------

Secure network infrastructure

Type	Outcome
------	---------

1. Patch management Strategy

Self-hosted network file storage

Type	Outcome
------	---------

Simple security management system

Type	Outcome
------	---------



Other

aslan: DMZ vlan

Type	Grouping
------	----------

eeyore D5

Type	Grouping
------	----------

Relations

Realization relation

Type	Realization relation
Source	back-up server
Target	Zoo Museum

Triggering relation

Type	Triggering relation
Source	M.I.S.T.R.A.
Target	Zoo Museum

Triggering relation

Type	Triggering relation
Source	Malibu Point Home Assistant
Target	Zoo Museum

Realization relation

Type	Realization relation
Source	back-up server
Target	Glances Client

Triggering relation

Type	Triggering relation
Source	Malibu Point Home Assistant
Target	Glances Client

Realization relation

Type	Realization relation
Source	raspberry pi 4
Target	Malibu Point Home Assistant

Triggering relation

Type	Triggering relation
Source	M.I.S.T.R.A.
Target	Malibu Point Home Assistant

Composition relation

Type	Composition relation
Source	aslan: DMZ vlan
Target	back-up server

Composition relation

Type	Composition relation
-------------	----------------------

Source	aslan: DMZ vlan
Target	file server

Realization relation

Type	Realization relation
Source	raspberry pi 4
Target	Database

Serving relation

Type	Serving relation
Source	Malibu Point Home Assistant
Target	Database

Triggering relation

Type	Triggering relation
Source	MEEEEE :3
Target	Malibu Point Home Assistant

Realization relation

Type	Realization relation
Source	back-up server
Target	Zoo Web

Realization relation

Type	Realization relation
Source	file server
Target	file store

Triggering relation

Type	Triggering relation
Source	Everyone
Target	Zoo Web

Realization relation

Type	Realization relation
Source	file server
Target	Glances Client

Composition relation

Type	Composition relation
Source	Zoo Web
Target	Landing Page

Composition relation

Type	Composition relation
Source	Zoo Web
Target	Personal Website

Realization relation

Type	Realization relation
Source	raspberry pi 4
Target	Glances Client

Realization relation

Type	Realization relation
Source	back-up server
Target	UFW

Realization relation

Type	Realization relation
Source	file server
Target	UFW

Access relation

Type	Access relation
Source	back-up server
Target	Firewall configuration

Association relation

Type	Association relation
Source	UFW
Target	Firewall configuration

Composition relation

Type	Composition relation
Source	aslan: DMZ vlan
Target	main server

Composition relation

Type	Composition relation
Source	aslan: DMZ vlan
Target	entertainment system

Composition relation

Type	Composition relation
Source	eeyore D5
Target	telenet: modem/router

Realization relation

Type	Realization relation
Source	entertainment system
Target	VLC

Composition relation

Type	Composition relation
Source	entertainment system
Target	DVD Player

Composition relation

Type	Composition relation
Source	aslan: DMZ vlan
Target	ROM USB

Association relation

Type	Association relation
Source	ROM USB
Target	entertainment system

Composition relation

Type	Composition relation
Source	aslan: DMZ vlan
Target	gonatus: switch

Composition relation

Type	Composition relation
Source	aslan: DMZ vlan
Target	external storage

Association relation

Type	Association relation
Source	external storage
Target	file server

Composition relation

Type	Composition relation
Source	aslan: DMZ vlan
Target	ethernet (gonatus)

Triggering relation

Type	Triggering relation
Source	nest mini

Target	Wi-Fi (rhincodon)
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Triggering relation

Type	Triggering relation
Source	chromecast
Target	Wi-Fi (rhincodon)

Triggering relation

Type	Triggering relation
Source	gulo: laptop
Target	Wi-Fi (rhincodon)

Triggering relation

Type	Triggering relation
Source	aquila: phone
Target	Wi-Fi (rhincodon)

Triggering relation

Type	Triggering relation
Source	milvago: phone
Target	Wi-Fi (rhincodon)

Realization relation

Type	Realization relation
Source	TV
Target	WebOs

Realization relation

Type	Realization relation
Source	raspberry pi 4
Target	Home Assistant Core

Realization relation

Type	Realization relation
Source	raspberry pi 4
Target	MySQL database

Realization relation

Type	Realization relation
Source	reinaart D5
Target	Wi-Fi (rhincodon)

Realization relation

Type	Realization relation
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Source	reinaart D5
Target	ethernet (rhincodon)

Realization relation

Type	Realization relation
Source	raspberry pi 4
Target	Glances server

Realization relation

Type	Realization relation
Source	back-up server
Target	Glances server

Realization relation

Type	Realization relation
Source	file server
Target	Glances server

Realization relation

Type	Realization relation
Source	main server
Target	Glances server

Composition relation

Type	Composition relation
Source	eeyore D5
Target	Wi-Fi (eeyore)

Composition relation

Type	Composition relation
Source	eeyore D5
Target	Phillips WIZ connected bulb

Composition relation

Type	Composition relation
Source	eeyore D5
Target	Printer

Composition relation

Type	Composition relation
Source	eeyore D5
Target	Tuya smart switches

Triggering relation

Type	Triggering relation
Source	Phillips WIZ connected bulb
Target	Wi-Fi (eeyore)

Triggering relation

Type	Triggering relation
Source	Tuya smart switches
Target	Wi-Fi (eeyore)

Association relation

Type	Association relation
Source	Glances server
Target	Glances integration

Association relation

Type	Association relation
Source	WebOs
Target	Integrations

Association relation

Type	Association relation
Source	Tuya developer IOT
Target	Tuya integration

Realization relation

Type	Realization relation
Source	security camera
Target	Camera web server

Association relation

Type	Association relation
Source	Camera web server
Target	generic mp4

Composition relation

Type	Composition relation
Source	Home Assistant Core
Target	Integrations

Assignment relation

Type	Assignment relation
Source	Integrations
Target	Time

Assignment relation

Type	Assignment relation
Source	Integrations
Target	Google Cast

Assignment relation

Type	Assignment relation
Source	Integrations
Target	met.no

Assignment relation

Type	Assignment relation
Source	Integrations
Target	system monitor

Assignment relation

Type	Assignment relation
Source	Integrations
Target	speedtest

Assignment relation

Type	Assignment relation
Source	Integrations
Target	generic mp4

Assignment relation

Type	Assignment relation
Source	Integrations
Target	Tuya integration

Assignment relation

Type	Assignment relation
Source	Integrations
Target	Glances integration

Assignment relation

Type	Assignment relation
Source	Automations
Target	Arriving home

Assignment relation

Type	Assignment relation
Source	Automations

Target	Arriving home at night
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Assignment relation

Type	Assignment relation
Source	Automations
Target	Arriving home when it's hot

Assignment relation

Type	Assignment relation
Source	Automations
Target	Leaving home

Assignment relation

Type	Assignment relation
Source	Automations
Target	Went live on twitch

Composition relation

Type	Composition relation
Source	Home Assistant Core
Target	Automations

Serving relation

Type	Serving relation
Source	Static Webpage deployment: Zoo-web
Target	Portfolio Journey

Serving relation

Type	Serving relation
Source	Wiki
Target	Knowledge base: MUSEUM

Assignment relation

Type	Assignment relation
Source	Everyone
Target	Portfolio Journey

Assignment relation

Type	Assignment relation
Source	MEEEEEE :3
Target	Knowledge base: MUSEUM

Serving relation

Type	Serving relation
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Source	Mobile App
Target	IoT Dashboard

Serving relation

Type	Serving relation
Source	Voice Assistant
Target	Virtual Assistant

Realization relation

Type	Realization relation
Source	Home Assistant
Target	Mobile App

Realization relation

Type	Realization relation
Source	Home Assistant
Target	IoT Hub

Serving relation

Type	Serving relation
Source	IoT Hub
Target	IoT Dashboard

Serving relation

Type	Serving relation
Source	Landing website
Target	Static Webpage deployment: Zoo-web

Serving relation

Type	Serving relation
Source	Portfolio website
Target	Static Webpage deployment: Zoo-web

Association relation

Type	Association relation
Source	TV
Target	reinaart

Association relation

Type	Association relation
Source	security camera
Target	reinaart

Association relation

Type	Association relation
Source	raspberry pi 4
Target	reinaart

Association relation

Type	Association relation
Source	Desktop PC
Target	reinaart

Association relation

Type	Association relation
Source	reinaart
Target	router (carcharadon)

Association relation

Type	Association relation
Source	aquila: phone
Target	reinaart

Association relation

Type	Association relation
Source	milvago: phone
Target	reinaart

Association relation

Type	Association relation
Source	gulo: laptop
Target	reinaart

Association relation

Type	Association relation
Source	chromecast
Target	reinaart

Association relation

Type	Association relation
Source	nest mini
Target	reinaart

Association relation

Type	Association relation
Source	router (carcharadon)
Target	backbone

Association relation

Type	Association relation
Source	backbone
Target	gonatus: switch

Association relation

Type	Association relation
Source	aslan
Target	entertainment system

Association relation

Type	Association relation
Source	aslan
Target	gonatus: switch

Association relation

Type	Association relation
Source	aslan
Target	back-up server

Association relation

Type	Association relation
Source	file server
Target	aslan

Association relation

Type	Association relation
Source	main server
Target	aslan

Association relation

Type	Association relation
Source	backbone
Target	telenet: modem/router

Realization relation

Type	Realization relation
Source	raspberry pi 4
Target	arctos pay-attention

Realization relation

Type	Realization relation
Source	back-up server

Target	sftp server
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Realization relation

Type	Realization relation
Source	file server
Target	Intrusion detection system (IDS)

Realization relation

Type	Realization relation
Source	file server
Target	Squid Proxy

Association relation

Type	Association relation
Source	backbone
Target	Ad-hoc server

Composition relation

Type	Composition relation
Source	Ad-hoc server
Target	hyeana

Realization relation

Type	Realization relation
Source	main server
Target	[TOBE] Nextcloud

Realization relation

Type	Realization relation
Source	main server
Target	[TOBE] Plex

Composition relation

Type	Composition relation
Source	main server
Target	Debian

Realization relation

Type	Realization relation
Source	entertainment system
Target	retropie

Association relation

Type	Association relation
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Source	DVD Player
Target	entertainment system

Realization relation

Type	Realization relation
Source	entertainment system
Target	Glances server

Composition relation

Type	Composition relation
Source	entertainment system
Target	ailurus

Composition relation

Type	Composition relation
Source	entertainment system
Target	raspbian

Realization relation

Type	Realization relation
Source	Desktop PC
Target	Glances server

Realization relation

Type	Realization relation
Source	DokuWiki
Target	Wiki

Realization relation

Type	Realization relation
Source	Launchpad
Target	Landing website

Realization relation

Type	Realization relation
Source	file server
Target	VPN server

Realization relation

Type	Realization relation
Source	VPN
Target	Remote access

Realization relation

Type	Realization relation
Source	SSH
Target	Remote access

Realization relation

Type	Realization relation
Source	Squid Proxy
Target	Remote access

Assignment relation

Type	Assignment relation
Source	MEEEEEE :3
Target	Infrastructural support: Zoo-net

Serving relation

Type	Serving relation
Source	VLC
Target	Multimedia

Serving relation

Type	Serving relation
Source	Documentation website
Target	Static Webpage deployment: Zoo-web

Assignment relation

Type	Assignment relation
Source	Not me :c
Target	Infrastructural support: Zoo-net

Serving relation

Type	Serving relation
Source	retropie
Target	Multimedia

Serving relation

Type	Serving relation
Source	[TOBE] Plex
Target	Multimedia

Assignment relation

Type	Assignment relation
Source	MEEEEEE :3
Target	Multimedia

Realization relation

Type	Realization relation
Source	Home Assistant
Target	Website

Serving relation

Type	Serving relation
Source	IoT Hub
Target	Virtual Assistant

Serving relation

Type	Serving relation
Source	IoT Hub
Target	Home Automation

Assignment relation

Type	Assignment relation
Source	Watch movies (copy)
Target	From DVD (copy)

Realization relation

Type	Realization relation
Source	VLC (copy)
Target	DVD Player (copy)

Assignment relation

Type	Assignment relation
Source	Watch movies (copy)
Target	From USB (copy)

Assignment relation

Type	Assignment relation
Source	Watch movies (copy)
Target	On the Web (copy)

Assignment relation

Type	Assignment relation
Source	Play video games (copy)
Target	Play retro games (copy)

Realization relation

Type	Realization relation
Source	DVD Codex (copy)

Target	DVD Player (copy)
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Serving relation

Type	Serving relation
Source	DVD Player (copy)
Target	Watch movies (copy)

Serving relation

Type	Serving relation
Source	Chromecast (copy)
Target	Watch movies (copy)

Composition relation

Type	Composition relation
Source	Provide Custom IT Services
Target	Website Hosting

Composition relation

Type	Composition relation
Source	Provide Custom IT Services
Target	Home Automation

Composition relation

Type	Composition relation
Source	Provide Custom IT Services
Target	Digital Entertainment

Composition relation

Type	Composition relation
Source	Provide Custom IT Services
Target	Infrastructural Support

Association relation

Type	Association relation
Source	router (carcharadon)
Target	eeyore

Composition relation

Type	Composition relation
Source	Provide Custom IT Services
Target	Development

Realization relation

Type	Realization relation
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Source	Zoo-ArchiMate
Target	Development

Realization relation

Type	Realization relation
Source	GitHub Boards
Target	Development

Realization relation

Type	Realization relation
Source	G.I.N.G.E.R.
Target	Development

Composition relation

Type	Composition relation
Source	G.I.N.G.E.R.
Target	Tunnels

Realization relation

Type	Realization relation
Source	docker container
Target	DokuWiki

Realization relation

Type	Realization relation
Source	Apache
Target	Website Hosting

Composition relation

Type	Composition relation
Source	Apache
Target	Virtual Sites

Serving relation

Type	Serving relation
Source	Virtual Sites
Target	DokuWiki

Serving relation

Type	Serving relation
Source	Virtual Sites
Target	Home Assistant

Serving relation

Type	Serving relation
Source	Virtual Sites
Target	Portfolio

Serving relation

Type	Serving relation
Source	Virtual Sites
Target	Launchpad

Realization relation

Type	Realization relation
Source	Launchpad
Target	Website Hosting

Realization relation

Type	Realization relation
Source	Home Assistant
Target	Website Hosting

Serving relation

Type	Serving relation
Source	Virtual Sites
Target	Teahouse

Composition relation

Type	Composition relation
Source	main server
Target	docker container

Realization relation

Type	Realization relation
Source	docker container
Target	Apache

Access relation

Type	Access relation
Source	main server
Target	compiled web page

Realization relation

Type	Realization relation
Source	compiled web page
Target	Launchpad

Triggering relation

Type	Triggering relation
Source	Cloudflare
Target	Hyaena Web Terminal

Triggering relation

Type	Triggering relation
Source	Cloudflare
Target	Panthera Web Terminal

Realization relation

Type	Realization relation
Source	Hyaena Web Terminal
Target	Website Hosting

Realization relation

Type	Realization relation
Source	Panthera Web Terminal
Target	Website Hosting

Realization relation

Type	Realization relation
Source	Teahouse
Target	Website Hosting

Realization relation

Type	Realization relation
Source	Zoo ArchiMate documentation
Target	Website Hosting

Realization relation

Type	Realization relation
Source	G.I.N.G.E.R. documentation
Target	Website Hosting

Serving relation

Type	Serving relation
Source	Virtual Sites
Target	G.I.N.G.E.R. documentation

Serving relation

Type	Serving relation
Source	Virtual Sites

Target	Zoo ArchiMate documentation
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Aggregation relation

Type	Aggregation relation
Source	Home Assistant
Target	Lovelace

Aggregation relation

Type	Aggregation relation
Source	Home Assistant
Target	Home Assistant Core

Serving relation

Type	Serving relation
Source	IoT Dashboard
Target	MEEEEE :3

Serving relation

Type	Serving relation
Source	Home Automation
Target	MEEEEE :3

Serving relation

Type	Serving relation
Source	Virtual Assistant
Target	MEEEEE :3

Realization relation

Type	Realization relation
Source	Home Automation
Target	Automated my home

Realization relation

Type	Realization relation
Source	IoT Hub
Target	Automated my home

Realization relation

Type	Realization relation
Source	IoT Hub
Target	Home Automation

Realization relation

Type	Realization relation
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Source	Website
Target	Home Automation

Realization relation

Type	Realization relation
Source	Voice Assistant
Target	Home Automation

Realization relation

Type	Realization relation
Source	Mobile App
Target	Home Automation

Realization relation

Type	Realization relation
Source	Virtual Assistant
Target	Home Automation

Realization relation

Type	Realization relation
Source	IoT Dashboard
Target	Home Automation

Realization relation

Type	Realization relation
Source	Home Automation
Target	Home Automation

Flow relation

Type	Flow relation
Source	Everyone
Target	Cloudflare

Realization relation

Type	Realization relation
Source	DokuWiki
Target	Website Hosting

Aggregation relation

Type	Aggregation relation
Source	Not me :c
Target	Friends & Family

Aggregation relation

Type	Aggregation relation
Source	Not me :c
Target	Strangers

Aggregation relation

Type	Aggregation relation
Source	Not me :c
Target	Acquaintances

Aggregation relation

Type	Aggregation relation
Source	Everyone
Target	Not me :c

Aggregation relation

Type	Aggregation relation
Source	Everyone
Target	MEEEEEE :3

Realization relation

Type	Realization relation
Source	Cloudflare
Target	Website Hosting

Realization relation

Type	Realization relation
Source	Google Assistant
Target	Voice Assistant

Realization relation

Type	Realization relation
Source	Website Hosting
Target	Have a personal portfolio website.

Realization relation

Type	Realization relation
Source	Home Automation
Target	Have a cutting edge virtual assistant

Realization relation

Type	Realization relation
Source	Development
Target	Have a project roadmap

Realization relation

Type	Realization relation
Source	Digital Entertainment
Target	Able to play video games

Realization relation

Type	Realization relation
Source	Infrastructural Support
Target	Have a networking home-lab

Realization relation

Type	Realization relation
Source	Development
Target	Have a maintable enterprise architecture

Realization relation

Type	Realization relation
Source	lil almanac
Target	Home Automation

Composition relation

Type	Composition relation
Source	Development
Target	Custom application development

Realization relation

Type	Realization relation
Source	Infrastructural Support
Target	Performant internet access

Realization relation

Type	Realization relation
Source	Information Security Management
Target	Secure network infrastructure

Realization relation

Type	Realization relation
Source	compiled web page
Target	Portfolio

Realization relation

Type	Realization relation
Source	compiled web page

Target	Zoo ArchiMate documentation
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Realization relation

Type	Realization relation
Source	compiled web page
Target	G.I.N.G.E.R. documentation

Realization relation

Type	Realization relation
Source	docker container
Target	Cloudflared

Realization relation

Type	Realization relation
Source	docker container
Target	pi-hole

Realization relation

Type	Realization relation
Source	Portfolio
Target	Website Hosting

Realization relation

Type	Realization relation
Source	Infrastructural Support
Target	Have an extensible host and domain naming scheme

Realization relation

Type	Realization relation
Source	Digital Entertainment
Target	Have own email.

Realization relation

Type	Realization relation
Source	Home Automation
Target	Cross-platform smart home control

Realization relation

Type	Realization relation
Source	Website Hosting
Target	Able to publish documentation for projects.

Realization relation

Type	Realization relation
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Source	Website Hosting
Target	Have a web front-end for Malibu Point

Realization relation

Type	Realization relation
Source	Website Hosting
Target	Connect tea-house to zoo-web

Realization relation

Type	Realization relation
Source	Website Hosting
Target	Protected web log-in access to network.

Realization relation

Type	Realization relation
Source	Home Automation
Target	Have smart devices connected to a central IoT hub

Realization relation

Type	Realization relation
Source	Digital Entertainment
Target	Able to easily stream movie content

Realization relation

Type	Realization relation
Source	Website Hosting
Target	Have a zoo bookmark/launchpad

Realization relation

Type	Realization relation
Source	Infrastructural Support
Target	Able to remotely access the network

Realization relation

Type	Realization relation
Source	Website Hosting
Target	Easily accessible knowledge

Realization relation

Type	Realization relation
Source	Digital Entertainment
Target	Self-hosted network file storage

Realization relation

Type	Realization relation
Source	Infrastructural Support
Target	Automatically back-up data and critical configuration

Realization relation

Type	Realization relation
Source	Infrastructural Support
Target	Network health monitoring

Realization relation

Type	Realization relation
Source	Information Security Management
Target	Intrusion Detection

Realization relation

Type	Realization relation
Source	Information Security Management
Target	Simple security management system

Realization relation

Type	Realization relation
Source	Website Hosting
Target	Provide zoo bookmark/launchpad

Realization relation

Type	Realization relation
Source	Launchpad
Target	Provide zoo bookmark/launchpad

Triggering relation

Type	Triggering relation
Source	Virtual Sites
Target	[R] Hub Industries ArchiMate documentation Website

192.168.0.1

Type	Triggering relation
Source	ethernet (telenet)
Target	telenet: modem/router

192.168.0.21

Type	Triggering relation
Source	router (carcharadon)
Target	ethernet (telenet)

192.168.0.23

Type	Triggering relation
Source	gonatus: switch
Target	ethernet (telenet)

192.168.0.23

Type	Triggering relation
Source	ethernet (gonatus)
Target	gonatus: switch

192.168.0.24

Type	Triggering relation
Source	main server
Target	ethernet (gonatus)

192.168.0.25

Type	Triggering relation
Source	back-up server
Target	ethernet (gonatus)

192.168.0.26

Type	Triggering relation
Source	entertainment system
Target	ethernet (gonatus)

192.168.0.27

Type	Triggering relation
Source	file server
Target	ethernet (gonatus)

192.168.0.28

Type	Association relation
Source	telenet: modem/router
Target	Wi-Fi (eeyore)

192.168.0.28

Type	Triggering relation
Source	Printer
Target	Wi-Fi (eeyore)

192.168.2.1

Type	Triggering relation
Source	ethernet (rhincodon)

Target	router (carcharadon)
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192.168.2.1

Type	Triggering relation
Source	Wi-Fi (rhincodon)
Target	router (carcharadon)

192.168.2.20

Type	Triggering relation
Source	raspberry pi 4
Target	ethernet (rhincodon)

192.168.2.21

Type	Triggering relation
Source	Desktop PC
Target	ethernet (rhincodon)

192.168.2.22

Type	Triggering relation
Source	TV
Target	ethernet (rhincodon)

192.168.2.23

Type	Triggering relation
Source	security camera
Target	ethernet (rhincodon)

http

Type	Flow relation
Source	Cloudflare
Target	Apache