**VSP Termin 1**

**Ssh** [**abv311@141.22.34.23**](mailto:abv311@141.22.34.23)

**Ssh root@141.22.34.23**

Installed curl on ssh Container

Socat

In SSH Container:

Discover Blackboard

socat - UDP-LISTEN:24000,crlf

accepting UDP connection from AF=2 172.19.0.3:34589

{"blackboard\_port":5000}

unter der IP gefundene Anweisungen:

{

"definitions": {},

"info": {

"title": "Cool product name",

"version": "0.0.0"

},

"paths": {

"/blackboard/deliverables/{id}": {

"get": {

"description": "",

"responses": {},

"summary": "Details about a single deliverable",

"tags": [

"deliverable"

]

}

},

"/blackboard/deliveries": {

"get": {

"description": "",

"responses": {},

"summary": "Lists the deliveries",

"tags": [

"delivery"

]

}

},

"/blackboard/deliveries/{id}": {

"get": {

"description": "",

"responses": {},

"summary": "Details about a single delivery",

"tags": [

"delivery"

]

}

},

"/blackboard/quests": {

"get": {

"description": "",

"responses": {},

"summary": "Lists the quests available",

"tags": [

"quests"

]

}

},

"/blackboard/quests/{id}": {

"get": {

"description": "",

"responses": {},

"summary": "Shows details about the quest",

"tags": [

"quest"

]

}

},

"/blackboard/quests/{id}/deliveries": {

"get": {

"description": "<br/>To solve a quest one has to post the quest token as<br/><br/>{\"token\":\"<token>\"}<br/><br/>Solving quests requires authentication.",

"responses": {},

"summary": "Deliveries are the prove that a quest has been solved.",

"tags": [

"task"

]

},

"post": {

"description": "<br/>To solve a quest one has to post the quest token as<br/><br/>{\"token\":\"<token>\"}<br/><br/>Solving quests requires authentication.",

"responses": {},

"summary": "Deliveries are the prove that a quest has been solved.",

"tags": [

"task"

]

}

},

"/blackboard/quests/{id}/tasks": {

"get": {

"description": "",

"responses": {},

"summary": "Lists the tasks to be fulfilled to solve the quest",

"tags": [

"task"

]

}

},

"/blackboard/tasks/{id}": {

"get": {

"description": "",

"responses": {},

"summary": "Details about a single task",

"tags": [

"task"

]

}

},

"/map": {

"get": {

"description": "",

"responses": {},

"summary": "Your friendly map, telling you where locations are found",

"tags": [

"location"

]

}

},

"/map/{name}": {

"get": {

"description": "<br/>Locations do update itself. Do not try to update them. You don't know the key ;)",

"responses": {},

"summary": "Information about a location on the map",

"tags": [

"location"

]

},

"put": {

"description": "<br/>Locations do update itself. Do not try to update them. You don't know the key ;)",

"responses": {},

"summary": "Information about a location on the map",

"tags": [

"location"

]

}

},

"/users": {

"get": {

"description": "Lists the available users of the system.<br/>You may register yourself with a post of {\"name\":\"<name>\", \"password\":\"<password>\"}",

"responses": {},

"summary": "The list of users",

"tags": [

"users"

]

},

"post": {

"description": "Lists the available users of the system.<br/>You may register yourself with a post of {\"name\":\"<name>\", \"password\":\"<password>\"}",

"responses": {},

"summary": "The list of users",

"tags": [

"users"

]

}

},

"/users/{name}": {

"get": {

"description": "",

"responses": {},

"summary": "Shows details about a single user",

"tags": [

"user"

]

}

},

"/users/{name}/encryption\_key": {

"get": {

"description": "This will provide information about the encryption key used when<br/>comminicating in passwordless mode (hopefully soon to come)<br/>User has to be authenticated by basic auth to use this resource.",

"responses": {},

"summary": "Gives the users encryption key.",

"tags": [

"user"

]

}

}

},

"swagger": "2.0"

}

USER Created!

{

"encryption": {

"HMACK": "sha256",

"algorithm": "AES",

"encryption": "Fernet",

"key": "h4KJ5fltfnIfcWZNgLo8LtHXffnR9U3Bux4eADGTalA=\n",

"key\_encoding": "base64",

"keylength": "128",

"mode": "CBC",

"padding": "PKCS7"

},

"message": "Created User",

"object": [

{

"\_links": {

"encryption\_key": "/users/Jaume/encryption\_key",

"self": "/users/Jaume"

},

"deliverables\_done": [],

"delivered": [],

"ip": null,

"location": null,

"name": "Jaume"

}

],

"status": "success"

}

Get /login mit Basic Auth

{

"message": "Welcome. To use your token set header 'Authorization:Token <tokenvalue>'",

"token": "Z0FBQUFBQlo1ek93MFBfVFZzdk9sRHZqcTRYNVNKMkJIMUFCbzdEaDRhX0FsWEFYMGRwVl9WVkN1QmJvbjdwYjZBdExVY2tTNU41R0o5U0ZibzNjUDF5MG9Ja2FreFpLRFpLTzBXdkItdmJKNEhITHl0Y1ZmV3FpVmx4VS1YaU43T3FCNU1YMTFiNXFNOXowaW0wX2psemNoNllSVFBtWmp3PT0=”,

"valid\_till": 1508348232.759316

}

WE ARE AUTHENTICATED

{

"message": "You are authenticated",

"user": {

"\_links": {

"encryption\_key": "/users/Jaume/encryption\_key",

"self": "/users/Jaume"

},

"deliverables\_done": [],

"delivered": [],

"ip": null,

"location": null,

"name": "Jaume"

}

}

Throneroom Visited – Fulfilled

{

"message": "\nWelcome to the Throneroom! Well they have told you to come visit the King?\nWell, do you have an audience? NO? Then go away and tell your supervisor that the King does not have time\nfor every new greenhorn in town. But consider your quest as fullfilled - at least you visited the Throneroom.\nGive this token back as a symbol of fullfillment ( quest deliveries, POST {\"tokens\":{\"<task\_uri>\":token}} )\n",

"token": ""

}

Delivern?

POST 172.19.0.3:5000/blackboard/quests/1/deliveries

{"tokens" : {"/blackboard/tasks/1":""}}