

# SAE - BUT3 - FA

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SAE BUT 3 FA - Semestre 5  
semaine du 18 au 22 décembre

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## 1 Context

The subject proposed here is to be completed within one week (5 days).

## 2 Subject

You will create a web interface that will not require any user to log in.

This interface will necessarily be hosted on a Linux system.

The web platform will allow the use of three modules in connection with the system and the network

### 2.1 module 1 : **ping**

You will allow a user to ping and see the result displayed on the web page

### 2.2 module 2 : **ipv6**

You will propose a module which makes it possible to simplify the writing of an **IPv6 address** or to write it in its entirety.

You will also give the binary display of the two most significant bytes of the IP address in order to determine the type of address.

For more information : (<https://www.frameip.com/entete-ipv6/>)[<https://www.frameip.com/entete-ipv6/>]

## 2.3 module 3 : ipv4

The module will offer one or more forms which enable the user to obtain the division into **logical subnetworks** from a given IP address and a mask written with **CIDR notation**.

you will find an example at the following url: (<http://vlsmcalc.com/>)[<http://vlsmcalc.com/>]

## 3 Organization

You will teamwork in project groups. You are allowed to work in the **E51 room**. Ask for the key.

Your work will be due and submitted on next Friday at **6 p.m.** both on **e-campus** and **github** (or gitlab)

Your code must be available on github and downloadable by the teacher. Any delay will be penalized.

You must provide a report to explain how the platform works and precise the specifics of putting your application into production on a Linux server.

## 4 Notation

- Partie sur **10 points**

- Si la mise en production fonctionne immédiatement à partir des informations données dans votre rapport : **10**.
- S'il manque quelques informations marginales : **7**
- S'il manque de nombreuses informations : **3**
- Si les informations ne suffisent pas : **1.5** à condition de pouvoir néanmoins installer l'application
- Sinon la note sera de **0**

- Partie sur **20 points**

A condition que l'un des **4 premiers points** précédents a été satisfait.

- Utilisation de l'interface web sur **5**
- réalisation du module ping sur **5**
- réalisation du module ipv6 sur **5**
- réalisation du module ipv4 sur **5**
- Partie sur **10 points**

Lecture du rapport :

- Syntaxe
- Compréhension
- Mise en page