Cooking Cybersecurity

Why we all need new recipes to be successful

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About me

More than 20 years in security (in various functions including technical ones ☺)

- I have a passion about (cyber) security & I like cooking!
- Experience in start-up, own company, integrators & vendors
- National and international speaker for Security Conferences
- No criminal record (yet)!

Agenda

- Setting up the scene
- How to (learn to) cook ?
- Why cooking and cybersecurity have so much in common ?
- Examples
- Conclusion

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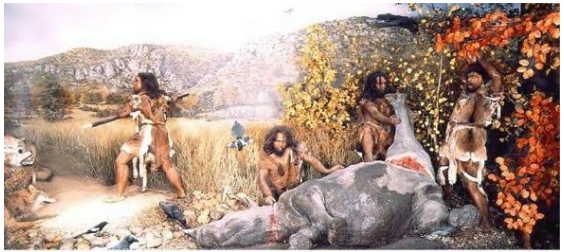
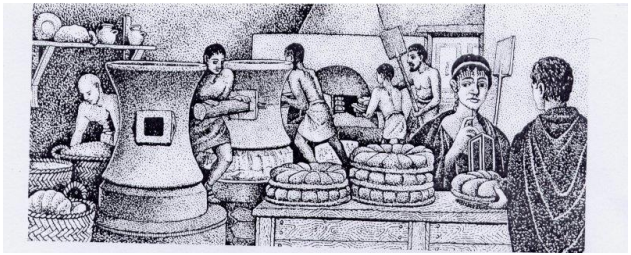
Setting up the scene

Setting up the scene

- Cooking is very old and is a critical component of mankind!





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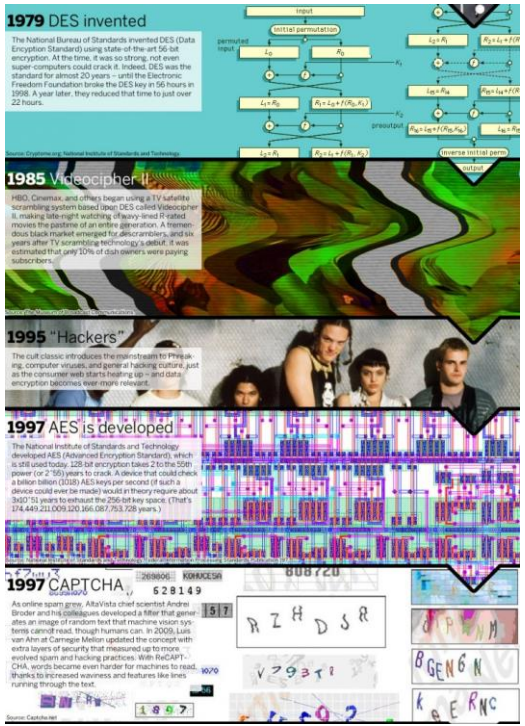
Setting up the scene

- Cybersecurity is not that old but think about the CIA principle … especially the C!



How to (learn to) cook ?

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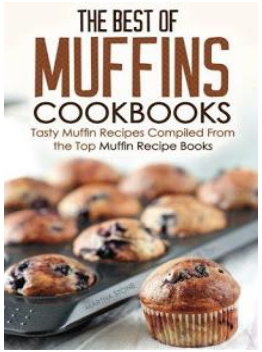
How to (learn to) cook ?

- The basic elements for cooking are obvious:
  - Ingredients
  - Tools
  - Location / facilities
  - Recipes
  - … but please don’t forget the most important!

How to (learn to) cook ?

How to become a chef ?

- There are key elements to be successful:
  - Learning
  - Training
  - Testing
  - Passion
  - Accept failures and challenges
  - Bottom up approach (stay humble)



Why cooking and cybersecurity have so much in common ?

Why cooking and cybersecurity have so much in common ?

- In fact all previous elements can be easily compared:
  - Ingredients & tools -> devices
  - Location & facilities -> infrastructure / connectivity / datacenter / cloud
  - Recipes -> configuration and policies
  - Cooks -> Cybersecurity specialists
  - Training -> training
  - Tasting -> auditing / pentesting
  - Dressing -> finetuning

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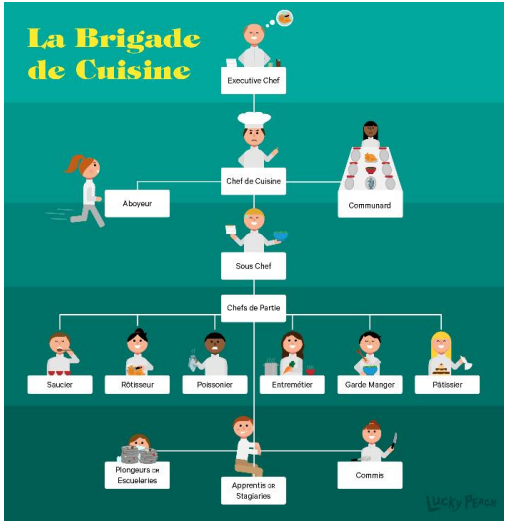
How cooking and cybersecurity have so much in common ?

- Furthermore … even the way how cooking is regulated in a professional kitchen can be compared:



- Clear roles and responsibilities
- Segmentation, risk control and management

Examples

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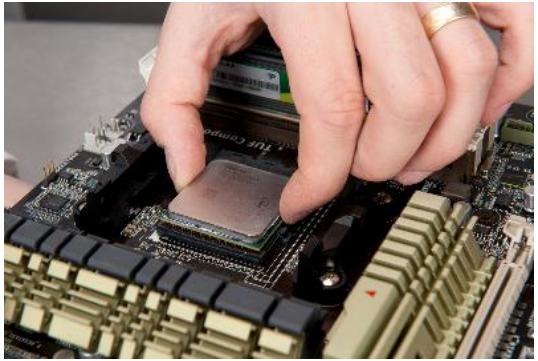
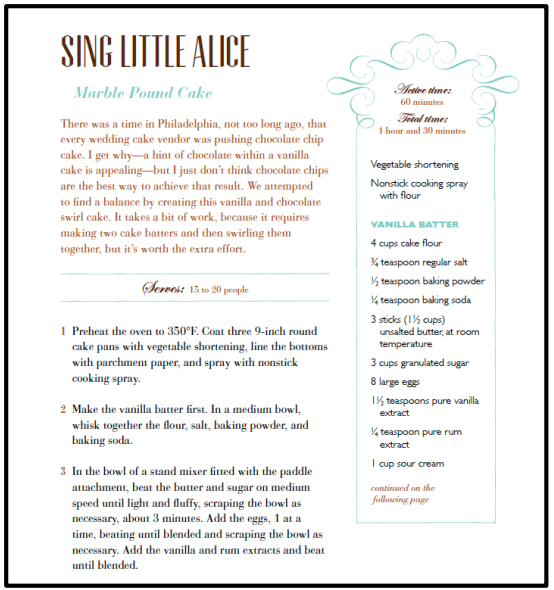
State of the art / best of breed / industrialisation

- Cooking is like cybersecurity: “standardized” or “à la carte”

Implementation / configuration

- It MUST be precise, accurate, exact …. In fact perfect!
- Why do you think in cybersecurity we all like to use … cookbooks?



SING LITTLE ALICE

Marble Pound Cake

Active time: 60 minutes
Total time: 1 hour and 30 minutes

There was a time in Philadelphia, not too long ago, that every wedding cake vendor was pushing chocolate chip cake. I get why—a hint of chocolate within a vanilla cake is appealing—but I just don't think chocolate chips are the best way to achieve that result. We attempted to find a balance by creating this vanilla and chocolate swirl cake. It takes a bit of work, because it requires making two cake batters and then swirling them together, but it's worth the extra effort.

Serves: 15 to 20 people

1 Preheat the oven to 350°F. Coat three 9-inch round cake pans with vegetable shortening, line the bottoms with parchment paper, and spray with nonstick cooking spray.

2 Make the vanilla batter first. In a medium bowl, whisk together the flour, salt, baking powder, and baking soda.

3 In the bowl of a stand mixer fitted with the paddle attachment, beat the butter and sugar on medium speed until light and fluffy, scraping the bowl as necessary, about 3 minutes. Add the eggs, 1 at a time, beating until blended and scraping the bowl as necessary. Add the vanilla and rum extracts and beat until blended.

Vegetable shortening
Nonstick cooking spray with flour

VANILLA BATTER

4 cups cake flour
¾ teaspoon regular salt
½ teaspoon baking powder
¼ teaspoon baking soda
3 sticks (1½ cups) unsalted butter, at room temperature
3 cups granulated sugar
8 large eggs
1½ teaspoons pure vanilla extract
¼ teaspoon pure rum extract
1 cup sour cream

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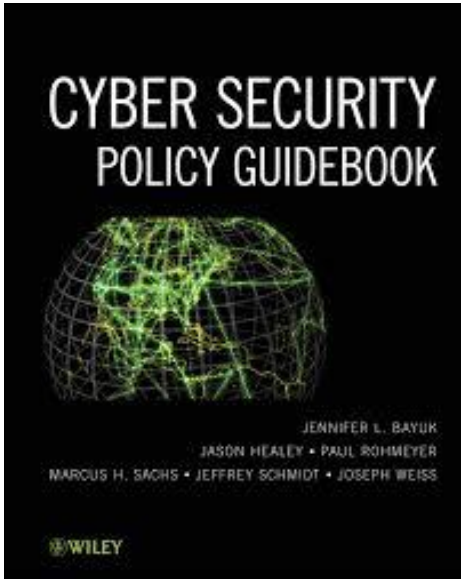
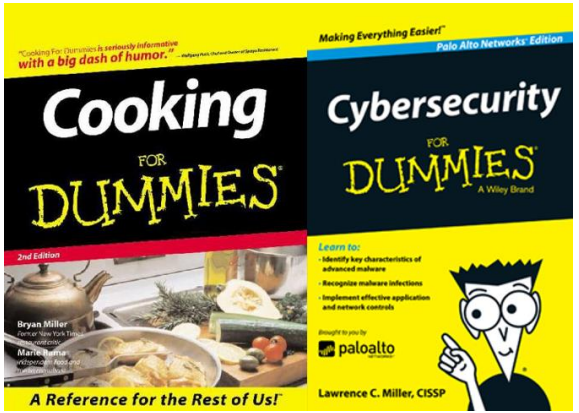
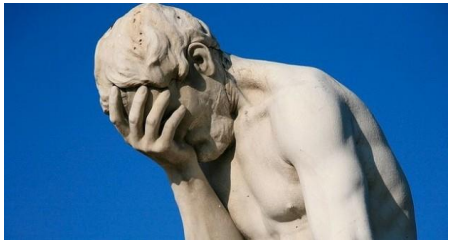




Old ingredients … New recipes

- Modern cooks like to (re)use forgotten ingredients
- … it’s exactly the same for cybersecurity!

Remember …. Logs?



- What was told to us in the 90's ?

3	Log Reduction	* Any	* Any	Any Traffic	NBT bootp rip	drop	None	R70J-A	* Any	this rule helps the LOG files to be tidyier by deliberatly not logging RIP,bootp and NBT
4	* Any	* Any	Any Traffic	NBT microsoft-ds	drop	None	Policy Targets	* Any	There are always some W* hosts around...which shouldn't fill the log	
5	Cleanup Rule	* Any	* Any	Any Traffic	* Any	drop	None			

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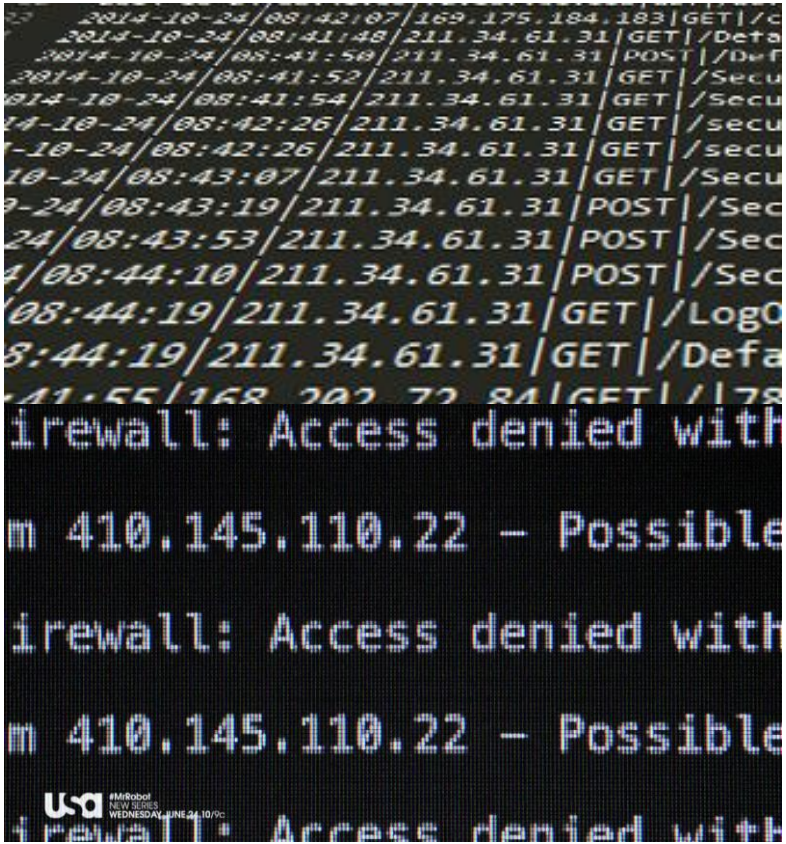
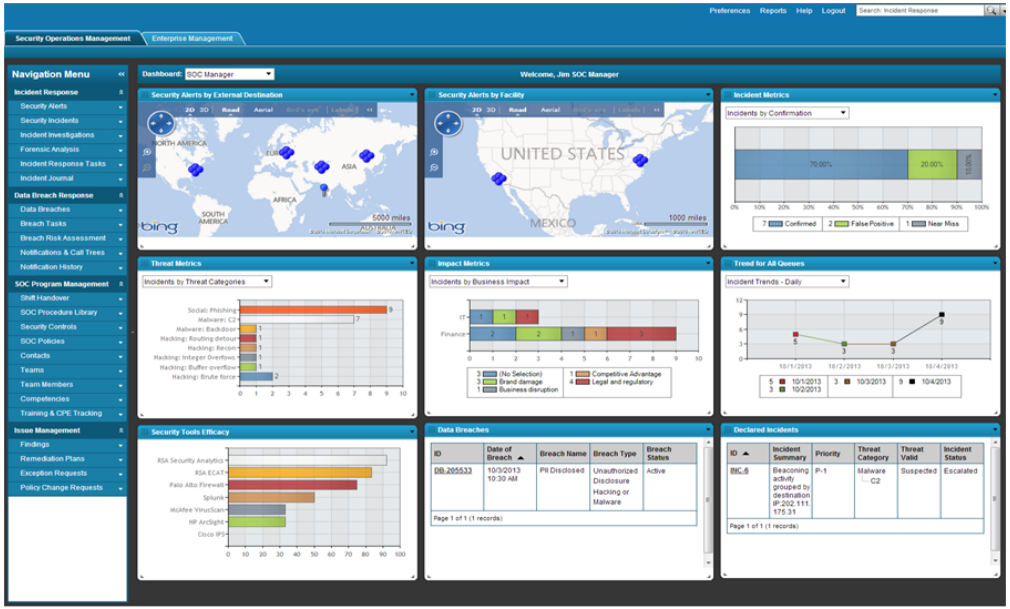
Logs …. today … everywhere … for everything!





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Conclusion

Still not convinced?