Your company’s CEO has asked you to do a security evaluation of the current datacenter and to submit a report by the end of the week about (1) any glaring, major problems found and (2) possible solution approaches to fix them. You visit the datacenter and observe the following:

1. The “server room” is in the basement, next to the furnace that heats the entire building; seven rack-mounted servers are plugged into a surge protector, which is plugged directly into the wall outlet.
2. Five of these servers have two network cards; their network cable is plugged into the same network switch.  The other two servers have one network card.
3. Many IT department employees and some executives have their own servers at their desks.
4. Desktop Support techs use the same admin password to access all workstations in the department.

IN A MS WORD DOCUMENT, SUBMIT THE FOLLOWING:

List a minimum of five threats you can find in the list above. Then, suggest five controls that can be added to diminish the threats. Be as complete as possible.  (10 points each)

**5 Threats observed in the building planning:** 1**.**  Server room is never considered to get constructed in the basement, where if there is considered to have heavy rainfall or any fire bell rang, as the furnace is near by It would create a huge problem to protect the server room from the above mentioned problems.

2. Keeping a wall outlet is never considered to be a great out way to have power utilizer as there would be considered of power fluctuations, where it would create a huge problem on server room, and it would effect total building as well.

3. Network cable and network switch would be separated for all the servers, and it should be different for each server, but it should be not be same as the bandwidth and power transformation would become difficult.   
4. Network cable and switch should be connected to different boards, as if there is a problem one switch then it should impact on one server, but not on all switches and ports.

5. Keeping servers beside the desk, is a symptom of welcoming problem, and sometimes it happens any thick liquid spills over the server, and it would create a huge problem on rebuilding the server in terms of investment.  
  
Considering these are some of the basic key threats where there said to be considered to be many other threats in the case given above.   
 **5 Remedies/controls to get rid of threats:**  
1. Server room need to be constructed with help of technical expert service engineer, CIO, and under great surveillance, building construction would be taken place, and keeping a server room in a basement is never a technically efficient deliverables because any time any kind of natural calamity can occur and can destroy our plan, so we suggest to have in high and secure place to get rid of any kind of problem, and making a good backup is the best security feature we provide for customer.

2. Rather keeping a wall outlet as a power consumption, so we suggest to have power grid base power transportation, so that it would solve the problem of power fluctuation.   
  
3. Cable and switches are always said to be placed to a different boards to make a great communication with power, where it get rid of any kind of power fluctuation.

4. If there considered to be a problem to one switch it can effect only on one server rather interpreting many other servers.  
  
5. Keeping a server desk is never considered to be a technically efficient solution, and should develop a separate server room to make the server protected and made secure with restricted access to server, where only authorized people are only allowed to access the server with admin privileges.