**Name:** Jay Vasani

**Student number:** 8885487

**Course code:** MGMT2205

**Professor name:** Ramandeep Singh

**Due date:** 16 june,2023

**Description:**

As a member of project team, here the individual is asked for making break-down structure for a large project and then expand the structure for each portion with work break-down structure. After that the estimated time (in hours) and people required to perform each task with a view to calculating the effort and process time needed for task. The server is also designed with specification and there are some assumptions regarding to server design and rack spaces. With the assumption it becomes easy to create work break-down structure.

**Work Break down-Structure:**

The portion of the overall project you have been asked to expand is:

**4. Install server ready for application install**

In following steps, I will expand this structure step by step according to the processes needed to do for install this server ready for application.

4.1 Initiation = getting things ready for the installation.

Required persons: 2 efforts (in hours): 3.5 hours.

4.1.1 unpack the server chassis and drive chassis. And check that all the needed parts are there.

Required persons: 2 efforts (in hours): 15 minutes.

4.1.2 distribute the task and define roles for each task. Make plans for potential risks and make strategies according to that.

Required persons: 2 efforts (in hours): 15 minutes.

4.1.3 set this server and drive chassis in the rack.

Required persons: 2 efforts (in hours): 1.5 hour.

4.1.4 connect that with screws and other parts needed in rack for stable and strong connection.

Required persons: 2 efforts (in hours): 30 minutes.

4.1.5 connect all the cables needed in designated ports carefully.

Required persons: 2 efforts (in hours): 1 hour.

4.1.6 recheck that all the connection is made correctly.

Required persons: 1 effort (in hours): 15 minutes.

4.1.6 document all the steps that are been followed by that initiation team.

Required persons: 1 effort (in hours): 45 minutes.

4.2 planning = making strategies and execution plan for installation of server as well as develop controlling and closeout plans.

Required persons: 2 efforts (in hours): 1hour 5 minutes.

4.2.1 determine e the team for the OS installation and configuration.

Required persons: 1 effort (in hours): 5 minutes.

4.2.2 develop plan for this task which includes information about task allocation and resources needed.

Required persons: 2 efforts (in hours): 15 minutes.

4.2.3 submit the document for this plan and get approval from high command about the strategies that will be followed by the team.

Required persons: 1 effort (in hours): 30 minutes.

4.2.4 project time kickoff meeting in which the members will review all necessary actions and start process after meeting.

Required persons: 2 efforts (in hours): 15 minutes.

4.3 execution= configure all the needed parts and installation of Operating system requirements.

Required persons: 1 effort (in hours): 6 hours 45 minutes.

4.3.1 installing OS and other parts.

Required persons: 1 effort (in hours):2 hours 15 minutes.

4.3.1.1 install application binaries with intel Xeon platinum 8358n processor

Required persons: 1 effort (in hours): 15 minutes.

4.3.1.2 install 64 GB of memory to the server.

Required persons: 1 effort (in hours):15 minutes.

4.3.1.3 install OS media server 2019 in the server

Required persons: 1 effort (in hours):15 minutes.

4.3.1.4 start booting the server from the media.

Required persons: 1 effort (in hours):30 minutes.

4.3.1.5 follow the development plan and install all the other needed parts as per the requirements.

Required persons: 1 effort (in hours): 1 hour.

4.3.2 configuring all the settings needed to install the server.

Required persons: 1 effort (in hours): 4 hours 30 minutes.

4.3.2.1 setup RAID configuration for OS/ application binaries with 2 x 1T HDs RAID1

Required persons: 1 effort (in hours): 1 hour.

4.3.2.2 setup the RAID 0 as the swap space or temporary storage for server.

Required persons: 1 effort (in hours): 1 hour.

4.3.2.3 configure RAID 10 for database with 10 x 4T HDs.

Required persons: 1 effort (in hours): 1 hour.

4.3.2.45 configure the IP address and NIC and management port as provided.

Required persons: 1 effort (in hours): 1 hour.

4.3.2.5 configure other mounting hardware and cables as needed.

Required persons: 1 effort (in hours): 30 minutes.

4.4 control = testing and updation plans with risk management

Required persons: 1 effort (in hours): 1 hour.

4.4.1 check the server is working properly via testing the needed steps.

Required persons: 1 effort (in hours): 30 minutes.

4.4.2 verify the OS is installed properly and every port is configured as per the planning.

Required persons: 1 effort (in hours): 1 hour.

4.4.3 connect the server to the network and check for the fluency of connection.

Required persons: 1 effort (in hours): 15 minutes.

4.4.4 update the server if there is any error and solve that error.

Required persons: 1 effort (in hours): 30 minutes.

4.4.5 make plans for potential risk according to the testing of the server.

Required persons: 1 effort (in hours): 15 minutes.

4.5 closeout = document all the steps that are been followed for the process.

Required persons: 1 effort (in hours): 1 hour.

4.5.1 create the file and write down all the steps.

Required persons: 1 effort (in hours): 15 minutes.

4.5.2 write down the errors and their solutions which occurred during the installation.

Required persons: 1 effort (in hours): 15 minutes.

4.5.3 make clear documents about the port numbers and IP given to that specific port number.

Required persons: 1 effort (in hours): 30 minutes.

**Reflection:**

Work break-down structure is one of the most important parts of project management where it makes easier and interesting the process of the activities and makes a professional impact to the work. It gives proper understanding of the task to the reader and makes easy to communicate while working in team. Team members can easily separate their task and individually perform them and end up with working in team.

Companies can apply this for monitoring their activities with deep and accurate knowledge of how that task had been done or how it should be done.to conclude with, it can be said that dividing large projects into smaller parts makes it easy to understand and increase accuracy while performing that.

**Reference**

[basic steps for server installation](https://blog.avast.com/setup-server-business-avast)