# Cloudspace Academy : Project1 (Part3)

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# Part3:

which questions can you ask to the customer if you want to Build a Dynamic application that is not publicly accessible (intranet).

* Make sure the server hosting the intranet has the ability to download and update packages on the internet.
* Users within the company should access the application through HTTP

# Ǫuestions to ask our customer

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|  | * What specific access levels or permissions should different user roles have? How will user authentication be handled within the intranet environment? | |
| * What types of data will the application need to access and manipulate? How will data privacy   and security be maintained within the intranet environment? | |
| * What are the technical specifications of the server(s) hosting the intranet application? * Are there any constraints or preferences regarding the deployment environment (e.g., on- premises server, cloud-based infrastructure)? | |
| Approach of solution | | |
| 1- Set up a Private Network | | |
|  | | - Create a Virtual Private Cloud (VPC) within AWS to establish a private network for your intranet. Configure the VPC to use private subnets that do not have direct access to the  internet.  This task will be done by the other team |
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| 2- Launch EC2 Instance | | |
|  | | - Launch 2 Amazon EC2 instance within 2 privates subnet of our VPC. Those instances will host our dynamic application..  Create target group  Create EFS in privates subnets and attach to target group |
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| 3- Internet Gateway | | |
|  | | - Create an Internet Gateway (IGW) and attach it to your VPC. Set up a route table to route internet-bound traffic from your private subnet to the IGW.  This task will be done by the other team |
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| 4- NAT Gateway | | |
|  | - Set up a NAT Gateway within a public subnet of your VPC. Configure the route table of your private subnet to route internet traffic through the NAT Gateway. This task will be done by the other team | |
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| 5- Private Security Groups | | |
| * Security group of app tier   Allows Custom TCP traffic from the internal load balancer on port 4000   * Security group of database   Allows Mysql traffic from private security group on port 3306  6-Install Web Server and Application Dependencies | | |
|  | | - Install a web server (e.g., Apache) on the EC2 instance and deploy the dynamic application. Configure the server to serve HTTP traffic on port 80. |
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| 7- Package Updates | | |
|  | | - Ensure that the EC2 instance has the necessary permissions to download and update packages from the internet. You may need to configure proxy settings or use a package  manager like yum or apt to install/update packages. |
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| 8- Access Control | | |
|  | | - Restrict access to the EC2 instance to only users within the company’s network. You can achieve this by configuring network ACLs, security groups, or implementing VPN or Direct Connect connections. |