

Project Design Phase- II TechnologyStack (Architecture &Stack)

Date	25 October2022
TeamID	PNT2022TMID44550
ProjectName	Project-CustomerCareRegistry
MaximumMarks	4Marks

TechnicalArchitecture:

TheDeliverableshallincludethearchitecturaldiagramasbelowandtheinformationasperthetable1&table2

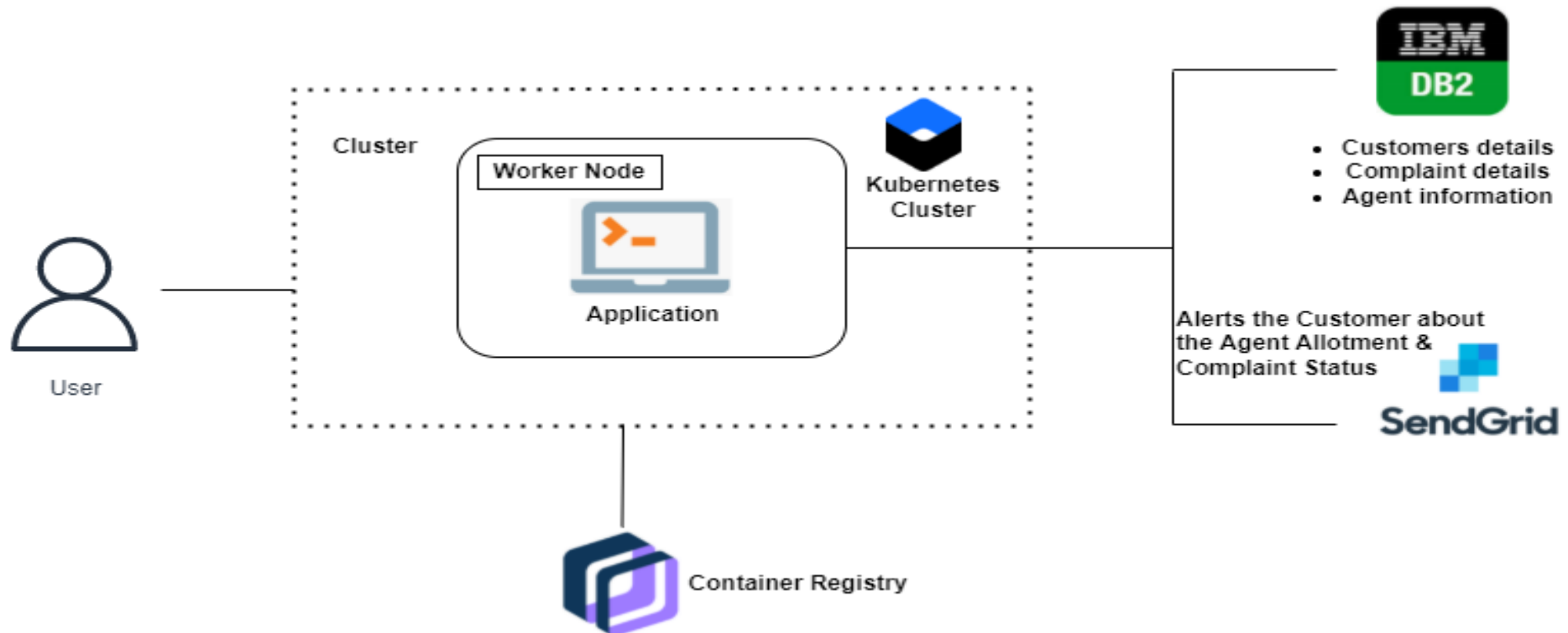


Table-1:Components&Technologies:

S.No	Component	Description	Technology
1.	UserInterface	Howuserinteractswithapplication e.g.WebUI,MobileApp,Chatbotetc.	HTML,CSS,JavaScript,flasketc...
2.	ApplicationLogic-1	Logicforaprocessintheapplication	Python
3.	ApplicationLogic-2	Logicforaprocessintheapplication	IBMWatsonSTTservice
4.	ApplicationLogic-3	Logicforaprocessintheapplication	IBMWatsonAssistant
5.	Database	Data Type,Configurationsetc.	MySQL
6.	CloudDatabase	DatabaseServiceonCloud	IBMDB2,IBMCloudantetc.
7.	FileStorage	Filestoragerequirements	IBMBlockStorageorOtherStorageSe viceorLocalFilesystem
8.	Infrastructure(Server/Cloud)	ApplicationDeploymentonLocalSystem/CloudLo calServerConfiguration: CloudServerConfiguration:	Local,CloudFoundry,Kubernetes,etc.

Table-2: Application Characteristics:

S.No	Characteristics	Description	Technology
1.	Open-Source Frameworks	List the open-source frameworks used	Python Flask
2.	Security Implementations	List all the security/access controls implemented, use of firewall etc.	e.g. Encryptions, intrusion Detection software, antivirus, firewall etc...
3.	Scalable Architecture	Justify the scalability of architecture (3-tier, Micro-services)	Supports higher workloads without any fundamental change to it.
4.	Availability	Justify the availability of application (e.g. use of load balancers, distributed servers etc.)	High availability enables your IT infrastructure to continue functioning even when some of its components fail.
5.	Performance	Design consideration for the performance of the application (number of requests per sec, use of Cache, use of CDN's) etc.	Performance technology, therefore, is a field of practice that uses various tools, processes, and ideas in a scientific, systematic manner to improve the desired outcomes of the individuals and organizations.