



Final Year Project Showcase for Batch-2016

| <b>Department of Computer Information Systems Engineering</b> |  |   |
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| <b>1</b>  | <b>Project Idea</b>  | To provide Automated and Customized Cloud installation setup using OpenStack.   |
| <b>2</b>  | <b>Process</b>   | We have automated the process of configuring individual OpenStack components and provided an effortless configuration of a private cloud that will be run on the user's machine.  |
| <b>3</b>  | <b>Outcome</b>   | An installation setup that automatically generates cloud environments consisting of different OpenStack components and Virtual Machines based on user-selected configuration.   |
| <b>4</b>  | <b>Competitive Advantage or Unique Selling Proposition</b> (Cost Reduction, Process improvement, Attainment of any SDG (Sustainable Development Goal), increase of market share or capturing new market or having superior performance over competitor. In summary, any striking aspect of the project which compels industry to invest in FYP or purchase it. Some detail description is required in terms of how, why when what. You can select one or more from following dropdown and delete rest of them) |   |
| <b>a</b>  | <b>Cost reduction of existing Product</b>  | No such product exists in the market. There is significant cost reduction in cases where people hire professional technicians to set up their own private cloud environment at their workplace, education sector or shops, etc. it is also cost-effective in some cases to use our solution over public clouds, like in universities for students learning purposes |
| <b>b</b>  | <b>Process Improvement which leads to superior product or cost reduction, efficiency improvement of whole process</b> (e.g. What is issue is current process and what improvement you suggests)  | We have tried our best to build this project as efficiently as we can. There is no issue in the current process but the improvement in terms of new features can be made. Some more cloud services can be provided to the end-user, such as Website Hosting, Database Hosting, Cloud Storage, etc.  |
| <b>c</b>  | <b>Expanding of Market share</b> (e.g. how it expand and what is problem with current market)  | The current market does not provide such type of product. Our product will expand the current market, and users will have different options to choose from. According to the current market situation, when users need a cloud service, they have no other option but to choose a public cloud service provider such as AWS, Azure, etc.                            |
| <b>d</b>  | <b>Capture new market</b> (e.g. Niche market or unaddressed segment)   | Open Source Cloud is an undressed segment in pakistan IT business. This will help in cutting down a large portion of financial expenses for business in terms of hosting, provisioning and managed services.  |
| <b>5</b>  | <b>Team Members (Names &amp; Roll No.)</b>   | Danyal Javed - CS16133 Muhammad Usman Ghani - CS16129 Muhammad Ammar - CS16126  |



## NED University of Engineering and Technology



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| 6 | <b>Supervisor Name</b> | Dr. Muhammad Ali Ismail ( <a href="mailto:alibaluja@gmail.com">alibaluja@gmail.com</a> )  |
| 7 | <b>Pictures</b>        | <a href="https://drive.google.com/drive/folders/1bPSkAPJC2gWazLKHPKQzANs1LKbVI6uK?usp=sharing">https://drive.google.com/drive/folders/1bPSkAPJC2gWazLKHPKQzANs1LKbVI6uK?usp=sharing</a> |
| 8 | <b>Video</b>           | <a href="https://drive.google.com/drive/folders/1y2aCK14ViJaC4_9E47FpXzR-dS3FihaR?usp=sharing">https://drive.google.com/drive/folders/1y2aCK14ViJaC4_9E47FpXzR-dS3FihaR?usp=sharing</a> |