

# Deploying CouchDB Cluster

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project-000, March 12, 2017

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**This project focuses on deployment of CouchDB Cluster using Ansible playbook on Ubuntu Chameleon Cloud VMs and benchmarking of the deployment.**

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**Keywords:** Cloud, I524

<https://github.com/cloudmesh/classes/blob/master/docs/source/format/report/report.pdf>

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## 1. INTRODUCTION

CouchDB [1] is a no sql database management system under Apache. Data is stored as documents in CouchDB. In this project CouchDB cluster of one or more Chameleon cloud VMS is deployed using Ansible playbook and benchmarking is done to measure the time it took for deployment using a TBD benchmarking tool.

## 2. EXECUTION PLAN

This section depicts week by week execution plan for the project

### 2.1. Week 1

Develop Ansible script to deploy CouchDB on Ubuntu 16.04

### 2.2. Week 2

Run Ansible playbook to deploy CouchDB on Chameleon Cloud VM. Benchmark time it takes to deploy CouchDB on Chameleon Cloud VM

### 2.3. Week 3

Extend the Ansible script developed in Week 1 to deploy CouchDB into two Chameleon Cloud VMs.

### 2.4. Week 4

Run Ansible playbook to deploy CouchDB on two Chameleon Cloud VMs. Benchmark time it takes to deploy CouchDB on Chameleon Cloud VMs.

### 2.5. Week 5

Analysis of the benchmark results for deployment of CouchDB cluster. Document results in report and finalize report.

## 3. TECHNOLOGIES USED

- Ansible
- Cloudmesh
- Other technologies TBD

## 4. DEPLOYMENT

TBD

## 5. BENCHMARK RESULTS

TBD

## 6. CONCLUSION

TBD

## ACKNOWLEDGEMENTS

TBD

## REFERENCES

- [1] Apache Software Foundation, "Technical Overview — Apache CouchDB 2.0 Documentation," Web Page, Mar. 2017, accessed: 2017-03-11. [Online]. Available: <http://docs.couchdb.org/en/2.0.0/intro/overview.html>