

1. Add the private keys to bundle-ssl, under the respective folders: ca, elasticsearch, kibana, logstash. The filenames are ca.key, elasticsearch.key etc
2. Go to microservicecloud dir, type 'docker-compose exec elasticsearch bash'

```
\ARCHSS Practice Module\repos\travel-plan-api\microservicecloud>docker-compose exec elasticsearch bash
```

3. Generate usernames and passwords for all users by typing './bin/elasticsearch-setup-passwords auto -u "https://localhost:9200"'

Copy out the username and password into external file

```
[root@elasticsearch elasticsearch]# ./bin/elasticsearch-setup-passwords auto -u "https://localhost:9200"
Initiating the setup of passwords for reserved users elastic,apm_system,kibana,kibana_system,logstash_system,beats_system,remote_monitoring_user.
The passwords will be randomly generated and printed to the console.
Please confirm that you would like to continue [y/N]y

Changed password for user apm_system
PASSWORD apm_system = IRbrYaNa750MN63A7yEx

Changed password for user kibana_system
PASSWORD kibana_system = 8SsCK6FWGdFyhflNeMax

Changed password for user kibana
PASSWORD kibana = 8SsCK6FWGdFyhflNeMax

Changed password for user logstash_system
PASSWORD logstash_system = 85VSKrzCE6VwEXA40J63

Changed password for user beats_system
PASSWORD beats_system = t1NdUzECd404fh0MOigq

Changed password for user remote_monitoring_user
PASSWORD remote_monitoring_user = J801ZPH3f1lfbo0D7DJR

Changed password for user elastic
PASSWORD elastic = mm4yL80RAE0yVZieX1WI
```

4. Overwrite password for kibana_system user in kibana.yml
5. Overwrite password for logstash_system user in logstash.yml
6. Go to kibana UI, you should be able to access https link: <https://localhost:5601>. Log in as elastic user (password from step 3)



Welcome to Elastic

Username

elastic

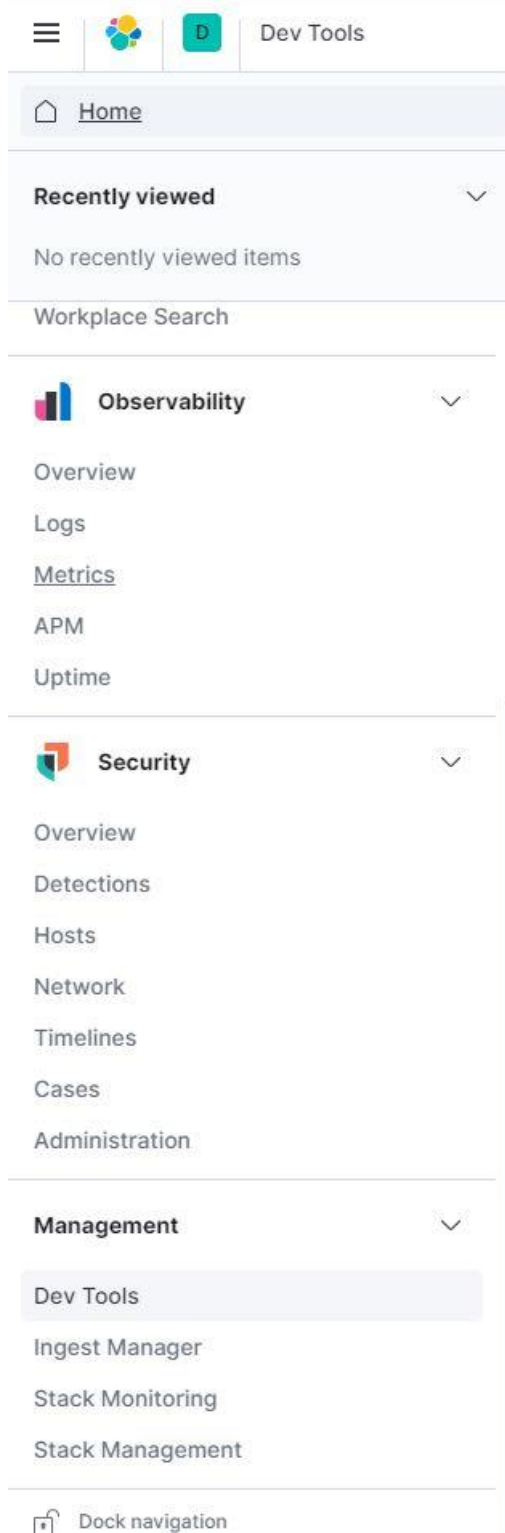
Password



.....|

Log in

7. Go to Dev Tools under Management Tab



8. Create logstash_write_role in dev tab:

POST /_security/role/logstash_write_role

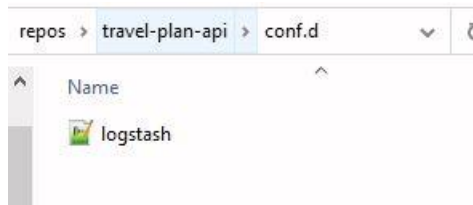
```
{
  "cluster": [
    "monitor",
    "manage_index_templates"
  ],
  "indices": [
    {
      "names": [
        "micro*", "log*", "metric*"
      ],
      "privileges": [
        "write",
        "create_index"
      ],
      "field_security": {
        "grant": [
          "*"
        ]
      }
    }
  ],
  "run_as": [],
  "metadata": {},
  "transient_metadata": {
    "enabled": true
  }
}
```

9. Create logstash_writer user. NOTE: for password field you can enter any password, I just use logstash_system user password as default.

POST /_security/user/logstash_writer

```
{
  "username": "logstash_writer",
  "roles": [
    "logstash_write_role"
  ],
  "full_name": null,
  "email": null,
  "password": "<logstash_system password>",
  "enabled": true
}
```

10. Go to logstash.conf under travel-plan-api/conf.d



11. Open logstash.conf file. Update logstash_writer password with logstash_system password

```
output {
  elasticsearch {
    hosts => ["elasticsearch:9200"]
    index => "%{appName}-%{+YYYY.MM.dd}"
    manage_template => false
    document_type => "appLogs"
    ssl => true
    cacert => '/etc/logstash/config/ca.crt'
    ssl_certificate_verification => true
    user => logstash_writer
    password => 85VSk rzCE6VwEXA4OJ63
  }
}
```

12. Restart docker-compose