

Question for installing ELIOT

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Background



We will consider a new Blueprint and we are thinking of using ELIOT for it.

We are trying to install ELIOT, but installing is not succeed.

We would like to ask some questions.

Q1. Which is easier to install ELIOT R4 or R5?



- Which is easier to install ELIOT R4 or R5. Currently, installing R4 and R5 is not succeeded we have been struggling.

Q2-1.Question about R5

1. The installation procedure (<https://wiki.akraino.org/display/AK/ELIOT+R5+-+IoT+Gateway+Installation+Guide>) has been recently updated, is it final version?. The last update was on 7/23/2021.
2. I'm getting the following error when installing EdgeGallary AIO Mode. I want to get some advice.

```
/tmp/eg_download/deploy/ansible-all-x86-latest/install/aio_log
```

```
TASK [eg_prepare : Docker Login Harbor] *****
^[[0;31mfatal: [192.168.51.210]: FAILED! => {"attempts": 12, "changed": true, "cmd":
"docker login -u admin -p Harbor@edge 192.168.51.210", "delta": "0:00:00.096264",
"end": "2021-07-28 08:34:51.191741", "msg": "non-zero return code", "rc": 1, "start":
"2021-07-28 08:34:51.095477", "stderr": "WARNING! Using --password via the CLI is
insecure. Use --password-stdin.
Error response from daemon: Get
https://192.168.51.210/v2/: x509: cannot validate certificate for 192.168.51.210 because
it doesn't contain any IP SANs", "stderr_lines": ["WARNING! Using --password via the
CLI is insecure. Use --password-stdin.", "Error response from daemon: Get
https://192.168.51.210/v2/: x509: cannot validate certificate for 192.168.51.210 because
it doesn't contain any IP SANs"], "stdout": "", "stdout_lines": []}^[[0m
```

Q2-2.Question about R4

■ How can I get the source code of R4?

Which committed date do we select as R4 source code in git trunk? We think the source code which committed in 2020/12 is R4 source code. Because R4 is officially released in 2021/2, and there are no update in git from 2020/12 to 2021/2.

git log

```
commit 233fedcbae7166783277ed538d454b106b9d52ae
Author: Srinivasan <srinivasan.s.n@huawei.com>
Date: Mon Jun 21 17:30:27 2021 +0530
```

eg 1.1.1 related

```
Signed-off-by: Srinivasan <srinivasan.s.n@huawei.com>
Change-Id: Icd11c6da4b0f0eb3d7b49ccd2b3e72f0ffbf3179
```

```
commit 8d3b452ed742e3b9e3e7e5ed9633038437bdca9
Author: arvind.patel@huawei.com <arvind.patel@huawei.com>
Date: Tue Dec 29 22:05:19 2020 +0530
```

Hakwit added in edge

```
Signed-off-by: arvind.patel@huawei.com <arvind.patel@huawei.com>
Change-Id: I49bff1e03d1f6b51d2af08ab466021b3f82653d3
```

```
commit c030e91757126da5b7f1ed717184dff29e88e455
Author: arvind.patel@huawei.com <arvind.patel@huawei.com>
Date: Thu Dec 24 18:06:04 2020 +0530
```

Q2-3.Question about R4

■ I'm having trouble installing the R4 software and would like some advice

1. According to the following installation guide, it mentioned MECM. What does MECM mean?

Jump Host Pre-Configurations for MECM Components Installation

Login to the Jump Host and perform the below configuration steps (Steps : as below-

1. Generate public key : #ssh-keygen
2. Copy the ssh key to all the nodes in the MECM Cluster, using ssh-copy-id. (example : #ssh-copy-id root@159.178.17.16)
3. Kubespray configuration

```
cd kubespray && cp -rfp inventory/sample inventory/mycluster
```

Update ansible inventory file provided in kubespray repo with MECM Cluster node IP's

4. Review and Change Parameters under inventory/mycluster/group_vars

```
cat inventory/mycluster/group_vars/all/all.yml
cat inventory/mycluster/group_vars/k8s-cluster/k8s-cluster.yml
```

5. Alter the config.yml and change parameters under path eliot/blueprints/iotgateway/playbooks/config.yml

Q2-4.Question about R4

- When we was installing ELIOT R4, we get some errors and installing is not succeed. Checking the logs, it looks like OS or architecture problem. We are using Ubuntu 18.04, x86_64. Will it work? Errors are listed after the 7th page.
- Architecture is required x86_AMD64 or ARM64. OS is required Ubuntu 16.04 / 18.04 or CentOS 7.X.
Which combinations have been proven to work?

Q2-5.Question about R4

3. Questions about the installation guide

Currently, we are facing an error while building the ELIOT. I need suggestions on how to workaround it.

Using a command that does not exist when building k8s. Can I skip this task ?

[source code]

eliot/blueprints/iotgateway/playbooks/roles/k8s/tasks/install.yml

Line 18.

- name: Check whether k8s is already installed

command: which k8s

register: result

ignore_errors: yes

no_log: True

3. Questions about the installation guide

The execution condition of the ansible task is leaking.

[source code]

`eliot/blueprints/iotgateway/playbooks/roles/docker/tasks/install.yml`

[Details].

We are using the x86_64 machine environment. The source code is only compatible CentOS and Arm architecture. How can I fix this?

Q2-6.Question about R4

3. Questions about the installation guide

The command is using a file that does not exist.

[source code].

```
eliot/blueprints/iotgateway/playbooks/roles/k8s/tasks/install.yml
```

Line 36.

```
- name: Install k8s
```

```
shell:
```

```
# yamllint disable rule:line-length
```

```
cmd: ansible-playbook -i inventory/mycluster/hosts.yaml --become --become-user=root cluster.yml
```

```
# yamllint disable rule:line-length
```

```
chdir: /root/eliotkubesprey/kubespray/
```

[Detail].

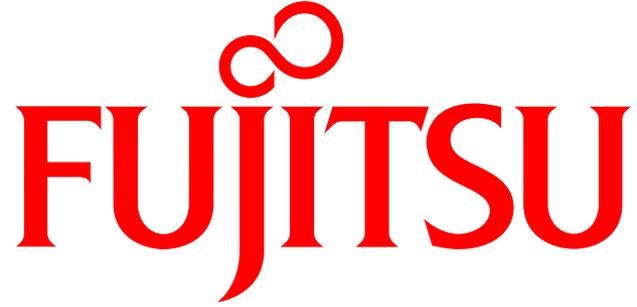
The file `inventory/mycluster/hosts.yaml` does not exist.

The file `inventory/mycluster/inventory.ini` does exist. Is there any problem with the procedure using this file?

Q3. How can we consult with you if we encounter any problems in the future?



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