As of March 29, 2019 (AAF 2.1.8, dbc-client 1.0.5, dmaap-bc 1.1.2, message-router 1.1.12)

AAF 2.1.8 bootstrap is missing some required permissions.

Symptoms:

- Authenticated topic provisioning via dmaap-bc does not succeed, and so mirrormaker pod is unable to start.
- dmaap-bc pod log says "/opt/app/dmaapbc/ok_to_exit does not exist. Sticking around..."
- If you login to a shell on dmaap-bc pod and examine /opt/app/dmaapbc/logs/ONAP/error.log, there will be an Error about service credentials not being valid for AAF connection.
- Authenticated access to the dmaap-bc API will fail. In particular, robot DMaaP Bus Controller Health Check With Basic Auth will fail. (as reported in ~~DMAAP-1178~~ - [BC] DMaaP fails health check CLOSED)

Resolution:

1. Deploy AAF separately first.
2. In AAF GUI add:

> *role create org.onap.dmaap-bc.service*
> *perm grant org.onap.dmaap-bc.api.access * read org.onap.dmaap-bc.service*
> *perm grant org.onap.dmaap.mr.access * * org.onap.dmaap-bc.service*
> *perm grant org.onap.dmaap.mr.topic * view org.onap.dmaap-bc.service*
> *perm create org.onap.dmaap.mr.topic * * org.onap.dmaap-bc.service*
> *perm create org.onap.dmaap-dr.feed * * org.onap.dmaap-bc.service*
> *perm create org.onap.dmaap-dr.sub * * org.onap.dmaap-bc.service*
> *perm create org.onap.dmaap.mr.topicFactory :org.onap.dmaap.mr.topic:org.onap.dmaap.mr create,destroy org.onap.dmaap-bc.service*
> *role user add org.onap.dmaap-bc.service dmaap-bc@dmaap-bc.onap.org*
> *role user add org.onap.dmaap-bc.api.Controller dmaap-bc@dmaap-bc.onap.org*

3. Deploy dmaap

NOTES:

1. the message-router-mirrormaker pod is dependent on topic provisioning and AAF permissions being granted, which is done as a result of the message-router post-install job. Sometimes this sequence takes a while and the message-router-mirrormaker pod status gets in a crashback loop. Patience: if all the steps above are taken, it should eventually reach a ready state. However, it will never succeed if the full topic provisioning wasn't successful.
2. depending on your environment, the deployment of all the components takes a while and can easily exceed the default helm timeout. Recommend adding --timeout 900 to your helm install command line.