

SAML f-ticks for Shibboleth

Log format

The F-TICKS format implemented by this log appender is a generalization of the eduroam F-TICKS format:

```
'F-TICKS/' federationIdentifier '/' version *(' #' attribute '=' value ) ' #'
```

In SWAMID `federationIdentifier` is 'SWAMID' and `version` is '1.0'.

The attributes exposed are:

| Name | Description |
|------|--|
| TS | the login time stamp |
| RP | the relying party entityID |
| AP | the asserting party entityID (typically the IdP) |
| PN | a sha256-hash of the local principal name and a unique key |
| AM | the authentication method URN |

The instruction is know to work for Shibboleth Identity Provider version 3.1 or later.

Configuration

Configuration is done in `idp.properties`:

Salt

Use the following command to generate a salt

```
openssl rand -base64 36 2>/dev/null
```

Do not lose this salt once you've started to generate logs. If this salt is lost or reset then all local principal names will appear to have changed to analysis tools so avoid this!

Enable the logging

Add the following options to `idp.properties`

```
idp.fticks.federation=SWAMID
idp.fticks.algorithm=SHA-256
idp.fticks.salt=<salt>
idp.fticks.loghost=syslog.swamid.se
```