

KIP-309: Add toUpperCase support to sasl.kerberos.principal.to.local rule

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Status

Current state: *"Under Discussion"*

Discussion thread: [here](#)

JIRA: [here](#)

Please keep the discussion on the mailing list rather than commenting on the wiki (wiki discussions get unwieldy fast).

Motivation

KIP-203 implemented support to convert Kerberos principal name to lower case Linux user name via auth_to_local rules. As a follow-up, KafkaShortnamer can be further extended to allow converting principal names to uppercase by appending /U to the rule.

One use-case is given here: [HADOOP-13984 - Getting issue details...](#)

Proposed Changes

We propose to extend "sasl.kerberos.principal.to.local.rules" config rule format/syntax by supporting an optional "/U" (toUpperCase) at the end of the rule. Since usernames are locale insensitive strings, we propose to use Locale.ENGLISH for the case conversion

For example, given the rules

```
"RULE:[2:$1@$0](JOE-QA-.*@EXAMPLE.COM)s/.*/joe-qa//U",
"RULE:[2:$1@$0](joe-qa-.*@EXAMPLE.COM)s/.*/joe-qa//U",
"RULE:[2:$1@$0](.*@EXAMPLE.COM)s/@.*///U"
```

```
If the source string is JOE-QA-cll/host@EXAMPLE.COM, the result will be JOE-QA
If the source string is joe-qa-cll/host@EXAMPLE.COM, the result will be JOE-QA
If the source string is joe_user/host@EXAMPLE.COM, the result will be JOE-USER
If the source string is JOE_user/host@EXAMPLE.COM, the result will be JOE-USER
```

Compatibility, Deprecation, and Migration Plan

- This is an extension to the existing [sasl.kerberos.principal.to.local.rules](#) format and there will be no impact on existing users.

Rejected Alternatives