KIP-887: Add ConfigProvider to make use of environment variables

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Status

Current state: Accepted Discussion thread: here

JIRA

Unable to render Jira issues macro, execution

error.

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

Motivation

So far it is not possible to inject additional configurations stored in environment variables. This topic came up in several projects and would be a useful feature to have as a Kafka config feature similar to file/directory providers, example configuration:

config.providers=env

config.providers.env.class=org.apache.kafka.common.config.provider.EnvVarConfigProvider

ssl.kev.password=\${env:KEY PASSPHRASE}

Public Interfaces

A new implementation of the interface org.apache.kafka.common.config.provider.ConfigProvider will be added.

Affected components:

· org/apache/kafka/common

The provider will expose a configuration to restrict the environment variables accessing by the provider.

Name: allowlist.pattern

Type: String

Documentation: A pattern / regular expression that needs to match for environment variables to be used by this config provider

Proposed Changes

A class EnvVarConfigProvider implementing the ConfigProvider interface will be added. Core functionality is to provide the map returned by System.getEnv() via the get methods of the ConfigProvider.

Example implementation: https://github.com/Schmltz1/kafka-config-provider-env-var was already added to https://git hub.com/Schm1tz1/kafka/tree/kip-887

Compatibility, Deprecation, and Migration Plan

No compatibility issues as this will add a new separate functionality and configuration options.

Test Plan

No breakages expected. Integration testing with a client (producer/consumer) along with unit testing should be sufficient.

Rejected Alternatives

No currently known alternatives with a provider. One existing workaround that some implementations use are templates for configs and scripts to replace environment variables