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Web Application Access to EOS with OAuth2

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Data science and other communities have moved a lot of their workloads to web based applications, with notebooks being one of the most popular ways to perform data analysis or machine learning. In the same way, large scale computation services are often offered via web portals with similar requirements for authentication and authorization.

End users use SSO to access the frontend application, making the required OAuth2 or SAML tokens available. If all remaining backends services support the same sort of authentication and authorization mechanisms, we can drop the additional and cumbersome step of asking the user to pass X509 certificates or Kerberos tokens.

In this short presentation we describe a client side use case and deployment accessing EOS using OAuth2 tokens, including a quick demo of how the tokens are propagated and how the necessary renewal is handled for long lived processes.

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