

Architect Valley



The session color is **WHITE**

How to use the headsets:

1. Find a headset on the rack.
2. Make sure the headset is on the right colour.
3. Enjoy the talk.
4. Please put the headset back on the rack where you found it.





world tour
Essentials

(New) Named Credentials

Mikkel Flindt Heisterberg
Technical Architect, Salesforce



Forward Looking Statement

salesforce

This presentation contains forward-looking statements about, among other things, trend analyses and statements regarding future events, future financial performance, anticipated growth, industry prospects, environmental, social and governance goals, our strategies, expectation or plans regarding our investments, including strategic investments or acquisitions, our beliefs or expectations regarding our competition, our intentions regarding use of future earnings or dividends, and the expected timing of product releases and enhancements. The achievement or success of the matters covered by such forward-looking statements involves risks, uncertainties and assumptions. If any such risks or uncertainties materialize or if any of the assumptions prove incorrect, Salesforce's results could differ materially from the results expressed or implied by these forward-looking statements. The risks and uncertainties referred to above include those factors discussed in Salesforce's reports filed from time to time with the Securities and Exchange Commission, including, but not limited to: our ability to maintain security levels and service performance that meet the expectations of our customers, and the resources and costs required to avoid unanticipated downtime and prevent, detect and remediate performance degradation and security breaches; the expenses associated with our data centers and third-party infrastructure providers; our ability to secure additional data center capacity; our reliance on third-party hardware, software and platform providers; uncertainties regarding AI technologies and its integration into our product offerings; the effect of evolving domestic and foreign government regulations, including those related to the provision of services on the Internet, those related to accessing the Internet, and those addressing data privacy, cross-border data transfers and import and export controls; current and potential litigation involving us or our industry, including litigation involving acquired entities, and the resolution or settlement thereof; regulatory developments and regulatory investigations involving us or affecting our industry; our ability to successfully introduce new services and product features, including any efforts to expand our services; the success of our strategy of acquiring or making investments in complementary businesses, joint ventures, services, technologies and intellectual property rights; our ability to complete, on a timely basis or at all, announced transactions; our ability to realize the benefits from acquisitions, strategic partnerships, joint ventures and investments, and successfully integrate acquired businesses and technologies; our ability to compete in the markets in which we participate; the success of our business strategy and our plan to build our business, including our strategy to be a leading provider of enterprise cloud computing applications and platforms; our ability to execute our business plans; our ability to continue to grow unearned revenue and remaining performance obligation; the pace of change and innovation in enterprise cloud computing services; the seasonal nature of our sales cycles; our ability to limit customer attrition and costs related to those efforts; the success of our international expansion strategy; the demands on our personnel and infrastructure resulting from significant growth in our customer base and operations, including as a result of acquisitions; our ability to preserve our workplace culture, including as a result of our decisions regarding our current and future office environments or remote work policies; our dependency on the development and maintenance of the infrastructure of the Internet; our real estate and office facilities strategy and related costs and uncertainties; fluctuations in, and our ability to predict, our operating results and cash flows; the variability in our results arising from the accounting for term license revenue products; the performance and fair value of our investments in complementary businesses through our strategic investment portfolio; the impact of future gains or losses from our strategic investment portfolio, including gains or losses from overall market conditions that may affect the publicly traded companies within our strategic investment portfolio; our ability to protect our intellectual property rights; our ability to maintain and enhance our brands; the impact of foreign currency exchange rate and interest rate fluctuations on our results; the valuation of our deferred tax assets and the release of related valuation allowances; the potential availability of additional tax assets in the future; the impact of new accounting pronouncements and tax laws; uncertainties affecting our ability to estimate our tax rate; uncertainties regarding our tax obligations in connection with potential jurisdictional transfers of intellectual property, including the tax rate, the timing of transfers and the value of such transferred intellectual property; uncertainties regarding the effect of general economic, business and market conditions, including inflationary pressures, general economic downturn or recession, market volatility, increasing interest rates, changes in monetary policy and the prospect of a shutdown of the U.S. federal government; the potential impact of financial institution instability; the impact of geopolitical events, including the ongoing armed conflict in Europe; uncertainties regarding the impact of expensing stock options and other equity awards; the sufficiency of our capital resources; our ability to execute our share repurchase program; our ability to comply with our debt covenants and lease obligations; the impact of climate change, natural disasters and actual or threatened public health emergencies; expected benefits of and timing of completion of the restructuring plan and the expected costs and charges of the restructuring plan, including, among other things, the risk that the restructuring costs and charges may be greater than we anticipate, our restructuring efforts may adversely affect our internal programs and ability to recruit and retain skilled and motivated personnel, our restructuring efforts may be distracting to employees and management, our restructuring efforts may negatively impact our business operations and reputation with or ability to serve customers, and our restructuring efforts may not generate their intended benefits to the extent or as quickly as anticipated; and our ability to achieve our aspirations, goals and projections related to our environmental, social and governance initiatives, including our ability to comply with emerging corporate responsibility regulations.



Thank You

The Problem being Solved

- Declaratively support authentication for HTTP callouts from Salesforce
- Externalize endpoints and credentials for HTTP callouts allowing endpoint and credentials to be different between environments
- Supported in both low-code (Flow) and pro-code (Apex) tooling

(Old) Named Credentials Data Model

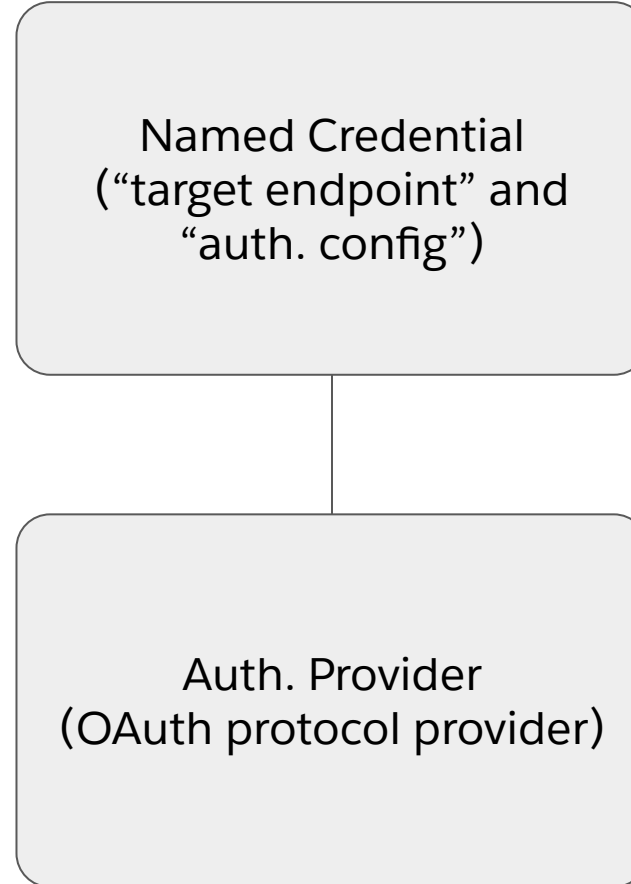


Authentication Protocols

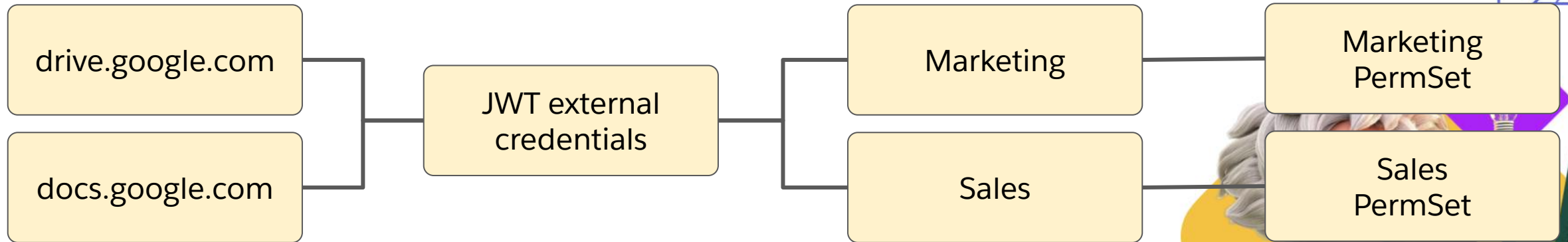
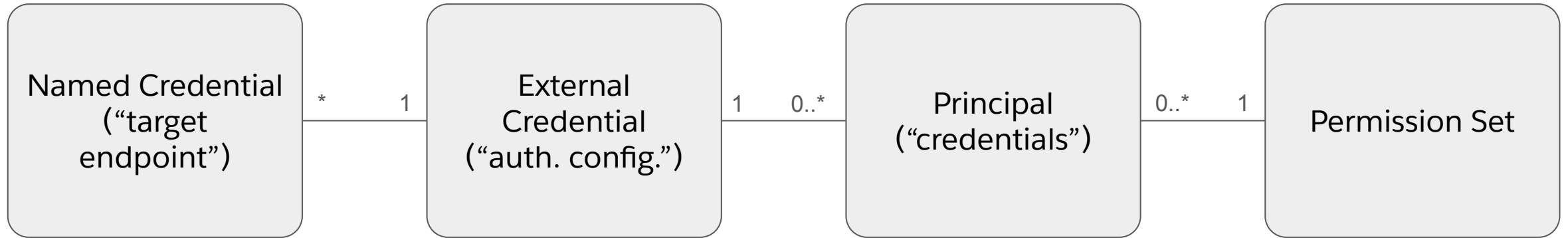
- JWT
- JWT Token Exchange
- OAuth 2.0
- Password Authentication
- AWS Signature Version 4 (named principals only)

Issues

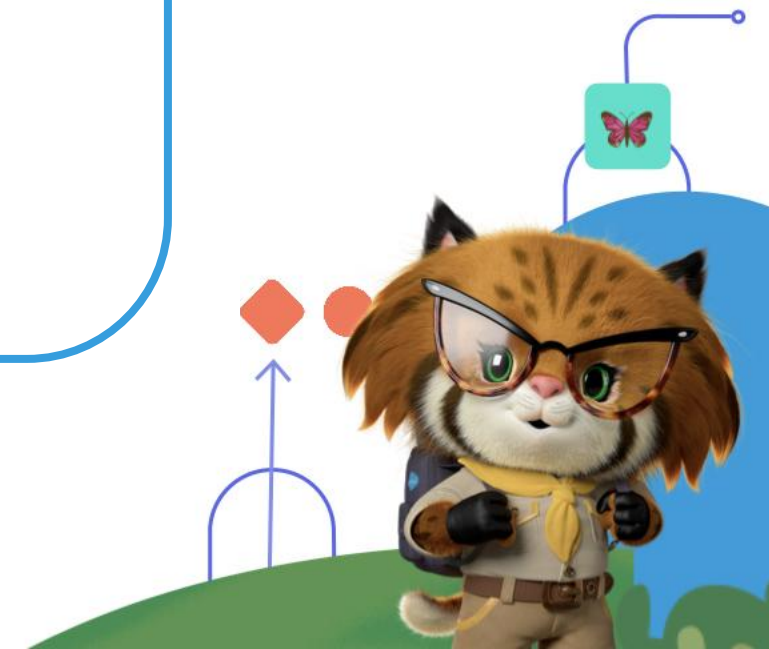
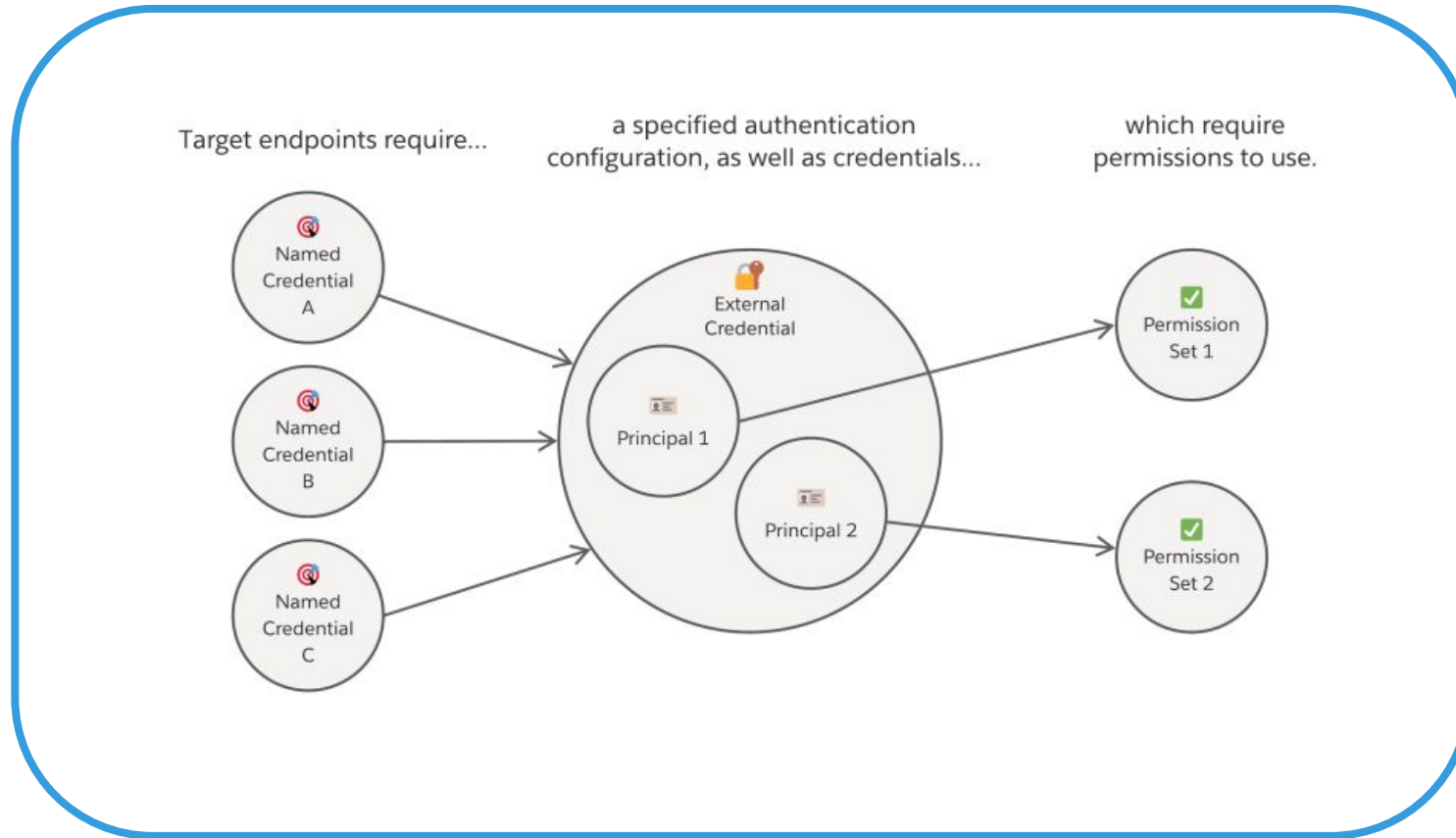
- Does support Auth. Providers but would require a custom one to support non-OAuth flow
- Only static values
- 1-to-1 mapping between endpoint and credentials



(New) Named Credentials Data Model



Example



*Demo
time...*



Handling Named Credentials in Deployments

salesforce

Legacy Named Credentials

Not all info can be retrieved i.e. secrets so not ideal for deployments. Should be excluded and manually **OR** use scripting magic to generate on the fly. Not ideal either...

(New) Named Credentials

ConnectApi with REST and Apex bindings to allow creation at deploy time i.e. from CI/CD pipeline. Caveat is that there are more moving pieces to fit together (named credential, external credential, principal etc.).

Resources

Links and slides...



Thank You

