Blockchain (BlCh)

In the news

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Distributed Systems & Blockchain in the News

- 27.09.2024: Binance founder 'CZ' leaves prison on Friday—along with his $60 billion fortune [link]

  - Estimated to hold ~90% of Binance

- 25.09.2024: New standards for a faster and more private Internet [link]

  - Zstandard vs. Brotli

  - Encrypted Client Hello ECH

  - HTTP/3 Prioritization

- 28.09.2024: User loses $32 million spWETH in a sophisticated phishing attack [link]

  - User lost $32 million spWETH in a phishing attack.

  - Crypto phishing attacks rose 215% in August 2024.

- 26.09.2024: Ask HN: What tools should I use to manage secrets from env files?

  - I have not yet found a perfect solution

  - Summary with Claude.ai

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- Key Principles and Practices

  - Avoid storing secrets in plain text or directly in code repositories.

  - Use cloud-based permissions systems and IAM roles when possible.

  - Implement secrets rotation on a regular schedule.

  - Set up logging systems for auditing and monitoring access.

  - Use separate accounts for different environments (e.g., development, production).

  - Authenticate users individually rather than using shared accounts.

- Best Practices

  - Use SSO (Single Sign-On) and OIDC (OpenID Connect) where possible

  - Implement MFA (Multi-Factor Authentication)

  - Rotate keys regularly

  - Avoid long-lived user accounts

  - Use temporary credentials for CI/CD pipelines

  - Implement IP whitelisting and VPNs for additional security

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- Open-Source Tools

  - HashiCorp Vault

  - SOPS (Secrets OPerationS)

  - git-crypt

  - BlackBox

  - Polykey

  - Infisical

  - gopass

- Considerations for Different Scenarios

  - For small teams or individual developers: Simple solutions like git-crypt or SOPS may suffice

  - For larger organizations: Cloud-based services or self-hosted solutions like HashiCorp Vault

  - For CI/CD pipelines: Use specific secrets management integrations provided by CI/CD platforms

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