

## **How Ledger Wallets Store Solana Private Keys Offline 30-10-2025:**

Whenever you use a crypto wallet directly on an internet-connected device (such as any hot wallet), you are vulnerable to malware. Depending on the device's security features, it could be installed on your computer or smartphone physically or remotely.

Malware can come in many different forms, but it's essentially just a program designed with malicious intent. Malware targeted at crypto users usually aims to do one of two things: discover your seed phrase or private keys by reading your device's sensitive files; or take control of your laptop or smartphone's screen and convince you to sign malicious transactions.

Hot wallets (software wallets) are extremely vulnerable to these threats since they store private keys directly on the host device, such as your phone or laptop.

That might not sound so risky to you, but in fact, your laptop or smartphone is not secure. Malware can be complex, and unfortunately, laptops and smartphones are built for performance, not for security. They don't have the technical capability to store private keys securely, and they don't drive their screens with secure chips either. Simply, your internet-connected devices offer too many opportunities for a hacker to find and exploit.

To execute a transaction, you must first initiate it using your internet-connected device. The transaction details are then sent to your Ledger device via a USB cable or NFC.

At this point, your Ledger device displays the transaction details on its secure screen and prompts you to sign the transaction. This process occurs completely offline within the Secure Element chip. This is the most crucial part of the transaction, as hackers can tamper with transactions before they are signed. But with a Ledger device's Secure Element chip, you can rest assured the signing process is executed offline and out of a hacker's reach.

Once the transaction is signed, it's sent back to your internet-connected device via a USB cable or NFC. Since the transaction is already signed it cannot be tampered with – even if your internet-connected device is compromised.

## Ledger Wallets Solana Private Keys

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| D8Srr97ycWogwYXvErqebNBz5ihZ5MCK6LQZGHS<br>fjau2 | 925zjQDfCoBwxSagXGdEhjbTDvBFG9zWQyuBNy4<br>XFavb |
| A1V5fYAx3ojvKbn2W3cXWVdaS2rMtq3jNHb6FJue<br>ares | 5k6LyNfuc5U9T9SVG2nJndfwBJVECxvo3FoYGdtU<br>1Zt7 |
| Eu17YPCjnCd74JNRHR6Rhf3M6eQb1tUsd74Vvdb<br>gaXUm | BkWsofNLrPgAmN8dM8S6H32WHjN2NeZm6nEy<br>ux3deX2  |
| 6GJLsgDZGoRyf6vB9oJu63jAQkKcjfyiUR3JFA6iUCf<br>y | rLvbKX7CSiLzvMERxHnkSGQUSbLhEP5haPgrehLW<br>4jW  |
| GP7G2ySgs2R1s9nySoLkbn2swppg9jktE7viJFvijds<br>L | FUe21NU9Gy4UzZZjxujeScEgTCziGTC3tc3aT2G9S<br>NPT |
| J81MeRrYbJVrzMiNF5HmxZuQsVg4k5BZz6BjMa9C<br>D7Lh | 31ucc1SwfaSchxLoeJH1wm7wZNiN3DEUScB1cxS<br>B9ebg |
| B2u7QEUMZxkYyQoSrukZgHwwA81oYaVenJRA<br>2eoGTWG  | DmNvXx7qoVdxZ7fqhpPLnDNwaPT87a7QNpqBnQ<br>U4sqvh |
| HxpQNGyZnFhDZkzexFcKvTLJhKJAJQVxCyzy2d4TH<br>jUs | GuuP5saSe5ntsJuXZvqFsZvQSuwaY2nsF3PKDLfwr<br>nCA |
| E3apcAiXT37JgXNyzYMk5VvZ9SRmZBK9vYyv97bE<br>zhVi | GcWbeBTayWwNSsojPKvnSzzdKmk8r55XBWAI6Z<br>x3N95g |
| Hm38Wd1rJPnuRKhyPvUtS3tbimXj9rWctaGN4d9t<br>EqJQ | DwZvpCwUTp4psz2BQTC2cPQEWX2A3vBV5b9o<br>Qk1jjN8t |
| CFdBbxtYbNjMNLp65YUykAJ2m8ycxjQbkhdVsiQt<br>Zobu | J7q6WxZwBYD4ZTqLWJzFw9oCUCAz3KaGsWcnV<br>euax52e |
| 69iyEETYVwd8eqG7nprKhEjkc888rBM7nE3WSPp7<br>qNFp | 9qbEshe3F5rQbewhHHnb2uk2mp8t9aFNpSPXPZF<br>m5hCZ |
| 96Ewrfv2aiveTsV2YV8RqrA2KtdFW6GPwyHXCSJK<br>GgQi | 33Rxa6NS6MHoibAvbGmm2epb1v3anxTspXN3K1r<br>sYe62 |
| 46CoL5GnDMioB3bkvMghETXM6ii8b7n36B3BWA6<br>y7yrU | 7m6DtAgnSFqCKvGT9kkbSEWr8Y4HnHg3Ar1ghyb<br>FwQbu |
| 4ixkxLjapZLB7XeaA1CatfBywhbWHrZsg3Fpo5VMr<br>DYj | Ay6ahMdzEGVs4sM3SCoYwTjkFuAbd3QBcGnKhZ<br>zJFQ3V |
| 7CvuQ6YmybyoSaoLU2fqVVvksvcgg1eGRguBysVe<br>RWtS | Ef9WCSJz4tC9bXefz3Lbno5vzmaCHUfCbUNBA4bf<br>6zPE |
| 34j8VoHpkvzCFD84xg1DNEYEJczkBesN45tkVLCi3<br>1an | JATrKPTrY84mV2z3JRrDP6rTCFK3hMD64QKDFoK<br>mKc4q |
| AwSkvNDAfxAxzEe5umubXPRVoxnTWK7fqFZWoh<br>HkD9G  | BPgQZNF4QBAzZaN6hfGdv77ohqWmuw468Lx<br>qLL3TTv   |
| CHY7UXjSYBmEsNPDneuFBf2jLPTMaHfrFHhNbW<br>7XAYVA | 73QnqmztGBfseBDLFH2Kfv97e9MVViXLnaHAXse<br>hBqaN |
| 4SsGRKXWV8qxsrbLyfieazGykHu8P2n4DQJ8HeNJ<br>1e8F | 25nxuNWBd4v34VcFzFJboinYrFr13ZWjegwwTRUT<br>LBSr |
| D5phWTU5y51p3K16u3ozwK6SVpLAzyGVJ3RnsZj<br>xwUFF | 4qhVxgRLPn8UnQYtYmks7AitMk67fQ8crQxaJBCm<br>3HrN |
| 9ttTpvim5schBotJLGboYwWMrK2rLdfVvYf15n8bG<br>i7y | 6iNT3Hp31s2F9cp7eS4MHXrBfD7uVsLrBfgKWEuT<br>QKdu |

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| CMvvlBuh8Jwg3vPsafCBREmq7WW7u5qQCK9aV<br>PzbypvS  | 4f1K9htdnepjgyG6JNTX8p6dpydGHXXjr4AyesASo8<br>mR |
| 33wjBgzq2No7gjtzyze1AYo2kehiAe6qEHZfXvi3cxQ<br>h  | 7uRx5BS8wMN42B23HWA26pEfz35W9f7AKwDPL<br>Ugdxs5  |
| HsdAkP85QaxRAfjhs3SVDeoiTwZzhVsM8LeLCnfb<br>7n6x  | 6vFoRVFeUTpds8WmPpKu3b5Vcamn1zMA1cxX<br>kxHzP6   |
| 7Ko6xLjyJ6hPsg4fS3uNNGWYidzVhyGhkFnrxXRw5<br>UAa  | G5agtTEjbcVFo54jKmDrnkW1UtzXorw2UwM5jwRd<br>ooxQ |
| rnFbk4LpuJGSfrb4dnRxt93G2amZZnrn4JxSqu7D<br>x     | nXDAX51J5J5fCr7Kng3QkiLUycuzzk6RZrVKiy5YJA<br>D  |
| FWRXuj1rfXmt4yvJbbzAW9762CQtzzbxXYEpkt8v2<br>zvo  | 3GogTMr71bNvfn4akRqkNbLTG6nfA5qFs5LXYkqu<br>3aug |
| CCdVrKCsYZaaJP7zxqBSGpKvK1rBYwYWT1VdsJy<br>3mGDZ  | HsuKG7MdBcekp7W4gJcqt2Bqq3Q5iCPH7JrBK4<br>U2Bdh  |
| 72LVK2TDM1mQzF856oimpZCk9oPSaBU7cvJFrtN<br>fbKUD  | 7NS6xYTJy6vfefamT3ugb9XJhbgYPtV7o5Q4uw1JX<br>nw  |
| BVVX2jVZtbPN6rJhZHMnyiMKxgTCK6eyubc27JS8<br>Up6v  | 9wnD6r2khJtvUoBThq4Ug18Z6BgHMRRWWmvUA<br>88PAsY5 |
| EaZc9k4PTDnpPAyoKvBcNR219dWLxACZiE6oXw<br>Sn2wYc  | DGMFAusHKLCQcvg8BHCuUoM8mj6ULWGTmTL<br>QhbyrGsLb |
| 23Mn4q2wJKiwTaHRtjbjWzQ4qpa19gHjDkxjohB7c<br>bVx  | 8VnZ9M2FZ2fNM98jhyie4jh5ZYLf6JQ1JS1zZJSn67<br>HF |
| HBwTCkCzPi5VC6sdGnBGmvpGwEmDCiFpW3aT<br>Yu7oYnhA  | 3bZxo81GkY1n6pbBRVCKFbqRY8dycLyodF3vzWB<br>GRfPM |
| qPHaRDFdStZNoaRu71URPEX3CZfgFsKh65dJMDX<br>rnCg   | DFWs1KN1nZ3XLTY2bQ2JREguJNnvbSojNN9u9kU<br>kbdDp |
| 66L5gEwfZxPje3MJnU9YGxd9JcFBZ98DbDjoQopg<br>aUC2  | Hh2fhPauhBjpruDbGF7KGMwm1ubPh4mP1h6NaL<br>rQaSXZ |
| 966E9ny9iGv5LLgvDiouv3uxb7uwP4WijKcidukTYSK<br>GL | Bo2RCWzsVvbL6v1ptr6vgmQHvy4ZEn2QUzGGBN<br>MN1CfF |
| 3JTP4et77UmTF36cWx4vhbAsbamNbcVV7uQjAeL<br>1YnjC  | CjyZ8E5nxCwyXCdsy5LRmpnZ8PRf4DNkjrRoXr1P<br>4m67 |
| 2M3CvF6CqH3jaQpfDCgfkYQJpmuLbFrtDMY5pN<br>EUXrB   | FgZGyfSsDEeHA6cbkWqsByeY4njR6LkqCSZj4kRN<br>amku |
| 3kdJUJ4imHxv8E9BwSU6BGfyHmbdmPHtZw2nC<br>xpaCrik  | 6tESRrJasPyQKa8R3G7mn7zGGihgyojvP7Vs5wDT<br>BEUR |
| 55RdmWAucmuQtucWvseiz4fGfSarihPz9bWkgpW<br>m35h1  | D2BrmDghGD5grwJ1jA9deeYFyA6MdXyPX1SsckH<br>oJsVY |
| BJoVBbxS6rySYzp6UMFwjHxpCA37oWvzgorPbM5<br>GnC42  | Ah2a3EKvhPnwwkYGFaHNfJu6Ngmx9ifeJaQuztRW<br>M6NA |
| H7Rggei68jzhdL7jEHPtDb5mT64P28QEM1NhUE6<br>3oX74  | 428nN4mUC4uQzqSg8i75d8g8xJvugkyKbtQ766mp<br>tX8L |
| AiWWo9m5LqV7BzEssc3KadHhkK4m8tANhNR9m<br>21B8snD  | 8gJTcZAP6MTWqUNBze3vf9P3xU6U48M6De4f8Tp<br>oWDo2 |
| 53HQvChz9xG8digoTxebTzQJyBBJWqkCxEByt34<br>B9qM   | BT5j2nrGrdMmAggcxQ5mCbpiYdd6N9JQ3otYGUg<br>oRbQE |

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| 4p86iXE4Q2GcAKZ3GwKUwcdLTs8PeUo72oGzsPZWs1e  | GBmMwR8Q4v7h1BmFQPOTuYYcXzLxLK9tqr1tLrv5hu1q  |
| 6SDLUYzJd8dafdZea8gzYgCUN5gDM9KweJYhUrUFeZ2d | 2VH7htEzUQEaggGLUH8PM6GQ1UzrQE1j42WQp1RpuhF7  |
| 6FpYkZ2ryt9veiuLvyBxs473LCHmoMjwMjq4BgYzE7sD | fdgL7nmjKdN4BiNd4KzWXyi2verUVsXFL85evyotMw    |
| Ev9RgC7CvVHdwYPnLwrriGVbUPh14x3QRYut9WWQVsw3 | 4jg1ZtRGHbvKQtpNYZk4XTRed4NRW9tocBXgtVcYDPu   |
| HvsNKWCMSkiSi7aLAJfckdb9L1hcHvJtPcmEGnAAzR4M | FCDZCTgmiDuLA82jAJ6dTZ19ScD8sPvfhAZuiKVDrabV  |
| G5z9MrCiKGUQumA4YEjWRBoFQCxYAuHr94HYMnKDwyQR | AH5Q6sv2vgLg1RDIPy2eyF34BbiDt4j7KRyu5DRQ77Nq  |
| ESqUpuoib6D5NMn7keDShYDufNMw3yrYMCqvD6Eyaby6 | 4GaAquUWifKjy42ojCfwR1Dg9qRRAXu3wSG36EUPNAn3  |
| Hfo6vBvVjuybAhjsaSHKrkUqVL9E3i7iq8iRwy1jV7Hx | DsMKTMF2pwBsrLvE3qL45dNfnY1Yzu7dxSjxP2on7dTH  |
| EK9zgzgS7mwbkTLhGuErXgYwZzQPQpgkSTGr4gPdybP  | B8A91y4fQRQdVRhAPuZSXvLd4szhUPrfnVWH7Da e6BfS |
| 3uH2PaeznhN9BPgeMKnMVWzj9byEHbCyMTy3cjX5yByF | ETv6n3QMnnq4WTKnjzBKxCutGkLrCkHtkEGPeQ8qUz2   |
| HhGwPceui9qAvyLbYGTszo1b4E5U3S7Ba3ezFB1KpDxY | 37LctMNNVRj5pQP4w11T9DSM3VQLsPLa9YARg4PVgobL  |
| 5LLAcCPwMx8PfyxUeECDnU63Y2RjjjGcvG7xpCPMKT9V | 2eWLLsuUYv61Ye3ggWu7ha6zB8R7JCTDikaVzt1G9CpF  |
| GpfBrW2iD74ztmasETbPNvYLV1CXRNcwfC75Vsr9wzt8 | FSstzHYcnd6Cre6Vsq534tjmnXurmWc5kr2PBYbNntSf  |
| AXnQFjKVLm93hFX7xzzEVhfawJhY13dqqqSQMsfKIDw  | CS4tjFTFXMhrz8bCy7jFgi5XCTEWN3HEGYEZWuqU7Sen  |
| 8oE6rUzGvYDM9QqpdZgd64TzaqMx5irrQcPmsrKYeBNv | 4GF1NMk912v2LrR63XyqrLRjCNkbZvgSgigQa4jiCQ2K  |
| 91nf7DJMk2zyabrnqADKHoyoPMsAuuN7GoW7M2o5zD6  | 9EyCqajxj2Hscj8FKmkuLm3eeP1ukVuMUe6UDvuoUAB2  |
| 3UDVMGx3b1VXat4ACoKGSZDTDPqfkLx4qsoaDj1KKsNJ | HYMs4ZPC3qMpj6hR1MeQHTe7wJgdRaVCwX1aqt5XHUPY  |
| 7qZKwcSo1sn7vWJEUVMRGBzYv8yFNeFAjmNsuXvinCF7 | 54aW126vmnxb9LEMYs4rBPAdgHbbfLDV7haLt1FadFWD  |
| AkAkG5ohVsfu7npxVomzVBWfcUTxMLdy62Z1dRc2Kf   | 4Jo9r87vTB8dMzQSF2ejRMxdViHuCV1Vu5WZSBRd4uVs  |
| 2aFcRK7SwFyk7e8wktmYUKyFKfFw2gppFzwpkcnFT6YV | BkT6CbexiW5C1ErfWDzBXqC2dE3jFi3pbAk4GQ1LdMU8  |
| FdEPZUMJhKSfU5sqyot84XFJuiShy4RxABhNqhE74CV  | 35K7n9k8yduRZQvbD1PbpJdUBM9wCEnF4FpGWPYt6ATc  |
| EauYr3o9TfF42H9WpguomakKi7wdiS11VhLN9h1LD51P | 8RfpzvTv225zTS9BhmTgK7LnsuWkvZ67zL7h2kXZbJLo  |
| 5sYsmzhCtCrrrVs3Nz3igv5oUphgcMEYpTU4dNk9EwPx | Htt7KZiVW7aY8DUgzDfFKW43AbMxDh9q3siPfNhQA6sY  |

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| DHvbaAKex9AwtXKYEHqMvn6J94G58D5226PDU<br>Z2d7Ej  | 9bURxj9AFgev1qNUZySkRLGDw62y6PFXdrXhe1w<br>sdhUE |
| Gr8SvBM7XNWCpb7uTx74bUNQXwJ2FQ8EmVZe<br>zVQxYWPx | 8Fw5fizuEsESqgDnSka5pt5nbWggwLo1SLkDo4ZDt<br>i87 |
| Hq2wHMSAw2hPN1KcyUKpRsv21BRy93tFz6VTY1<br>pPFGYi | HQfCGtmAov25AKqZNn7FGc891q556NFjWYy5zK<br>u99RR4 |
| 7rER1HfcyDLi5YfT7ADqeXrtg4mLKA9RwwMwExSj<br>aE4  | 5FPDqAGrxHFqGSZb2i49RNQXyWi4Zp5siFXZ1W<br>NrcXVW |
| 3dannGVuhjjWZgzKhFYHRecMBqXPoVrC1pNNrM<br>NS3WYW | EQ4noWo88BoMpMjZZDSMg2Fe6mG4DAbtrt2U2j<br>G1srSV |
| ZhKeeYAKuKb7VacZaX3Axn1s5dbkNpAinkmM8P7<br>P5iq  | 7VX3EYBsrzYSrcTZJbdh5H1hU8yMyokm4ju4JaAdL<br>brP |
| DYJtBAMDZ84TrNJH3ugSee6m9Qtq7fs1rRS2Hpidr<br>qb1 | B4etXMvQzU5rsCW6JxzYVJJa3X5Q6dxAkyq6UVqn<br>UJRp |
| 7uA4dbRVhdST7KPHGwEEJnJbKRHdX7y2UUCGTG<br>sNqh8Q | HFPJfBU7WZXM4ypJtpBUaHCFp9rjPXT9cbGQR1h<br>wgGQd |
| kDqmjQEYZ7pXn4ZcahgN1SYRG4i8fT5bqFEYJAw<br>nxxr  | 36KPgafT31CvDdEURM5kjJft2UV9g3c78w7DNqhr<br>4cfS |
| 3Z6abkA5bs9DLzMPJayiMFSgQAymhhX8kGXz915<br>q5mBt | 2TglicYfcS3Dr2WRs74rf2qbqDwNLvafVU9UpHask<br>2oY |
| FnJ4j96oWYspmmiV75e5KQwJGjJSvu1VLSfD8LJYr<br>RYs | Cg8bEabjALCkK4KWKc9vwRtnddMYZhSq2nmZ9c<br>wfrbjg |
| DoQVwbGk8BC16usvSimiv9oinCGnGEG5mjkAmc<br>Y3bPh6 | Nu3p3jmRdTN8k5EuNshipuBPhaDG7TWm5zcbfhZ<br>D4Uc  |
| D5Tc3kfXtg4uGnG8WVaP3PN9GNpjtane9CVR4m<br>p977uD | 3Snvf37kCsbvsjLM1uBLELjyrytn41L9HGKGXw3xw<br>yKf |
| GgeNVLaHMLP6AdHhY42kz2U6fJhSjbyEfsDDqghN<br>WaTR | 2nyzJvozyq27hvNX7qsa2KeTWyMoZHppHSmMQiS<br>Dp1FS |
| E81nv4HtDm6axUByWhaHJA25Ron5PvzNo6G8tyk<br>Lzypc | FS3jUSnmmtzbxhEX2ouCczgnBhspiKs8htPQYgZCt<br>zeP |
| HQvfSWcSRLiDCxEPToXciwFEmMX5yVJRSPqBtQ<br>qoBYRK | sya8m7Z6La8iDd2KZpmD1U69SVydec6iuCrN4Yh<br>M3MY  |
| E5aSr3eQAp8bqh87UyJr7ZscQfxc2hVKqjPoFBjDy<br>K95 | 4FSMVw6CWeeXJ24HZHrssTzYtpSvpciCMA2aayB<br>ayWBr |
| AKjnL3G8UwFeFVCnrDoVLPHJ7Q5gUMweafQAzq<br>DSQBxB | 5ZrvJUj3dDgbgKDY6BhUMd4F5SEhR5iMMjzbpiX6<br>GZRW |
| Fq8GVZh9ciDNbR4mVr3TouFQBBB2Gf7d9tNcahs<br>bw9DV | 52kxKeJV1DwvKQVdqcB5GrdQg3ioQ53CdMYduW<br>eS8FdV |
| 2kyLu5Z9dSi8DyD76zLnJxjpfjhNqB6qAhRHtN89Bb<br>ox | FhTt63Lfiz2R2LUvEZoixpwk6Kquv6BFuprZntFceLR<br>2 |
| 3UvZCUMy6EwDvpKp4AkpPSUU4JCu2UYfyy9DkZ<br>JqPHXG | E95mkengXuo5kPKcE4rQhKVqA4NYkafUcXDsxpz<br>Xbuc  |
| DrW38XKLeYrkQexyqUWkohaXVZww9okeT3mE5E<br>FobAzC | BGpaLP1WrZKoGWQMt6N9xfVDnvroM58jcEb3ofU<br>wsC7z |
| CNy3DD4ARjgnCW6bLigLusVVswOAPLdfzMPNEX<br>s9dz2L | 7KpddaCxGkZpvYwQZihKcDeUS3W4tJGi3qFwXW<br>MQdgFt |

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| GKD3kkjijFrC3tVWroRLmuGC19roFNhGEVgHTjzNMYv7 | EftuNZspwbqchRSrBRuK72zSE3zEvWKcD8ARAWCY3Bij  |
| Bvd4bqqUAhYwVLPvPDGQX9gfRDmcXiE9QhDjqDU9VKgz | FkvPBo17U1HJC9nRkveyRKnR34JLgJSWHRk3AgKdgYKz  |
| 3iFXq2nY3eFDQ1e5MgczcyKW6rHR1fSveP7H94Fq8EJP | EXJmCFJ5RPr8osTwsooQm2bP7oVWQqqkoxoro97pkzch  |
| GgFvdaTL7wLHki3XSKTXezXkzJWUB6pSTmFhLui8Ffs5 | 5aHF3XAMbQxZKg5xiKt9A3Dm2ZoZDpFFj75oQME2h9gT  |
| 8gTDM2hQW63X99CEuTt958UwaGhA7aiKZ9cwsV1S4f4i | 5UNfPGqBUZpMzkDuCxaNzCHbogVYNboE5ohTyi691cpk  |
| CHVKmXZE47mWo27FbcZYvoPiMiUtsfyiU4ddfAxnsKN  | 6mihqgh77udSLzYK3ZKDJU56XsDDruNKfRxvmomq4nw8  |
| GNSnmzJvPt8fB19XHwUwURcSZzZ4UTyDSNWpMYRVWY4h | GktWZRAN5PqbtLmuwir3YFTFi2p57rU74n52J4mUNmTD  |
| DXNNa5SBAMnR3bo8vDZdHmoc2JCmx3CaJnNRL356kzXm | 277TuvsCG5V6CcgonBz8DaF7SC9xVTQ7io4DjdGWtFCe  |
| FYZ425K4f2RRLSdXL3ddrQjBDzUkuzxsvotcLB8W5vpz | BjFgVgg8aLt37fmLCgJV7x4iKM3EhQQSnRsHP48bXo3J  |
| EMtG2AvfchwHryGRuPsUAoRDHNSbE7AWyFoNSZaTUVDR | 6RQeLYuvb5XGtuZzD2i8qhWTwuh2QxWu2nCGUsqycqt   |
| Ch9xJTLz5oFKD2vRWfjX2LnwTWZ4J5kKSVXGrksePLMi | 56wovFfjYkpUjuMhEjWVvhVRyomdoKyexbmgq78fAsKP  |
| 8g5B3snAcNew9qFRys9CRtYffTiUpqPGxHDG4uYd1JvQ | Fa1QvnRQd9PcPpZeepqNEHFVUJ89vk9JFGSHKb9JPszr  |
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| EcDVu2BZidoftQJZMpSsFF3H3W9cvsCFTEvxqFfc8W3E | 2taM4gU76KVh5vkqWLFF7mY9pPHmqMLbcFZKjD4rbDsv  |
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| 66vLY4sw4sxUVzNAoA3SQH2iRqt5Do6uo2pSypYTk9Ja | 3WBvehKnMXf3AoWcdcn3B6g7YTdSvmQJL794x33VBGXM  |
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| 93xDtiWGNqYHQE5zp5JjX6i9qGKXqtuvwtbMGRs qee9 | GnZR4FVWYJ9DYwEh11HookcqHqHyoVwMzyCMoEg1pK1X  |

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| FunUBckxgidLassaXQ2ScGcNvs23cwMv6tkgMP93A8nS | 9V8kffkqHu2fNwdofWoGdA7hgU6vsL5JfgeXJKyeXuQV  |
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| 41TYNJnkoWJg4nuELq2d9JmqE3DFuFgqLpJ8ARyzau4v | FRJKy9DTehKJKYJRHA14Sc85dHdp6Arn7P8JzXAWqge   |
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| EqBpDyc94TMrYKS6jRE7sCjbo3Y79CWXiEEtnBAiywgM | 7R4nNzAa9UaMC98sKDWtUnkJmv8pAYR1v5cXQWdJFPWU  |

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| TqtmG96sboT9CaS7ht5k65gEDUVrBNVmTRWnX24XD4K   | BjsWpUbTcvckoo8yGpR5X365eHDNcmvc97r7kzTZ7QtZ  |
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| C2vVXwLDvdkeZnWKhVyKpuD49hEvR6vmaYkVWvPFeoJQ  | 2cV2S3xq8aJvVfPUB5x41DLHQfzZm4M91dmsDFsRpRMq  |
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| 4VF6S8f39JHzGLtTtCLRc8DAZG2nqgBs3zv792n4MGmk  | FVaAhvVqFDvp6KxJ9oeTtgXy7wWwAComx7GPZxN6RjB   |
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| 92gsQadsXXfQpkaGKTJL3jaQ8bGPGmrjjHA3J2x7PtPR  | FuHRtHyxJxKhvWkmhYHLdWvdc71inxDMnrP8ppqHwUBvi |