Common Q&A

1. What is the difference between damons… KMD and Algod?

* Kmd is for wallet manager, Algod is for participation

1. What algorithm are you using for assigning addresses?

* address creation “The string representation is computed by appending a 4 byte checksum (computed by taking the last 4 bytes of a SHA512/256 digest of the public key) to the public key, giving us a 36 byte array. ”

1. How does Algorand scale?

* We did scalability testing
* Real Stats: In the first 3 weeks of MainNet:
  1. Over 50,000 transactions were processed in under 5 sec final
  2. That is **more** than the leading blockchain does in 6 months
  3. 400-1500 nodes active

1. How long does it take to create a block?

* A few seconds
* And its final

1. When is transaction finality?

* As soon as the block is written, currently less than 5 seconds.
* There are no forks

1. Does every online Algo has the same chance to vote?

* Yes, and the more Algos you have the more chances (the more voters)

1. Could the whole blockchain will come to a halt due to network interruptions?

* Worse care, it would stall. If stalled, vote your way out of stall, either do again with new proposer or pick up where we left off.
* Voters are not known ahead of time, so it would be hard to do a denial of service attack. Self-selected. User replaceability.

1. Do tokens need to be online to vote?

* Yes
* But you can earn rewards still while offline - rewards are calculated on post  foundation site here: <https://algorand.foundation/token-dynamics>
* Online tokens use VRF
* No partition has over 50 percent of the network.
* Everyone selects them self to initially propose block for lottery
* No mining, but rewards are provided if you have Algos, offline or online

1. The term Private Network has nothing to do with security – still permissionless, correct?

* Correct, the tool called Private Network, means it just runs on your machine and is not even part of TestNet or MainNet. This is for developers to help learn the product.

1. Are there any sample solutions?

* Evan’s post on building layer 2 app here on making your own coin.

<https://medium.com/algorand/l2-applications-on-algorand-make-your-own-coin-6d62c5d5578d>

* The JavaScript demo is a sample solution for a layer 2 app. <https://github.com/algorand/js-algorand-sdk/tree/master/examples/webapp>
* Algochat app <https://github.com/jsign/algochat>

1. How do I get started?

* Install a node <https://developer.algorand.org/docs/introduction-installing-node>
* Tutorials <https://developer.algorand.org/docs/tutorials>

1. Any questions referring to Alog Distribution, Auctions, and Finances…

* Refer to: [https://algorand.foundation/](https://algorand.foundation/algo-auctions)

1. Is the blockchain open sourced?

* Yes. The official implementation is here:  
    
  <https://github.com/algorand/go-algorand>