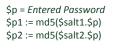


# ENCRYPTION CONCEPT II

(Provider can not see user data)

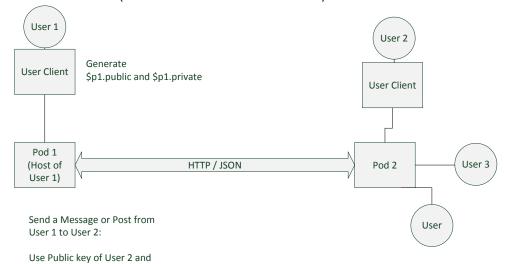


\$p1 is stored local \$p2 is password for host pod

### Problems:

- No password recovery from server
- Passwort change would require to transfer ALL data from server to client and recrpyt it.
- Client side app required
- How do we know messages are really from user1, the server could be evil?

private Key of User 1



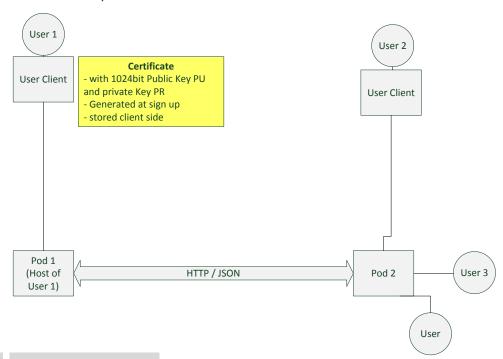
# CHARME ENCRYPTION CONCEPT

## PGP/ RSA as Certificate

- Certificate is encrypted with first part of password
- Second part of password is

### Problems:

- No certificate recovery or change
- Client side app required



Send a Message or Post from User 1 to User 2:

Use Public key of User 2 to encrypt message

## Send post to an audience

- Get all public keys of audience
- Generate random key and encrypt message with that key
- encrypt random key with each public key
- -> Hybrid cryptosystem