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SSH Security vs. Automation

Berlin | 25.05.2013 |
System Engineer



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Do what?!

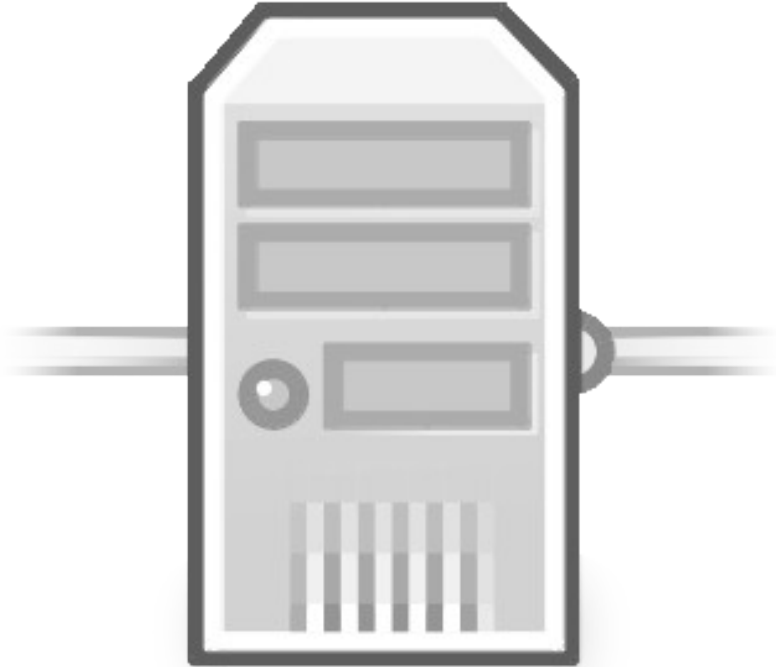
```
mwoitschitzky@isdeblnnl011:~$ ssh devwoi01
@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@
@    WARNING: REMOTE HOST IDENTIFICATION HAS CHANGED!    @
@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@
IT IS POSSIBLE THAT SOMEONE IS DOING SOMETHING NASTY!
Someone could be eavesdropping on you right now (man-in-the-middle attack)!
It is also possible that a host key has just been changed.
The fingerprint for the RSA key sent by the remote host is
0e:04:22:52:b1:64:bd:5f:4f:30:88:06:13:cf:3d:e8.
Please contact your system administrator.
Add correct host key in ~/.ssh/known_hosts to get rid of this message.
Offending RSA key in ~/.ssh/known_hosts:180
  remove with: ssh-keygen -f "~/.ssh/known_hosts" -R devwoi01
RSA host key for devwoi01 has changed and you have requested strict
checking.
Host key verification failed.
mwoitschitzky@isdeblnnl011:~$
```

Basics

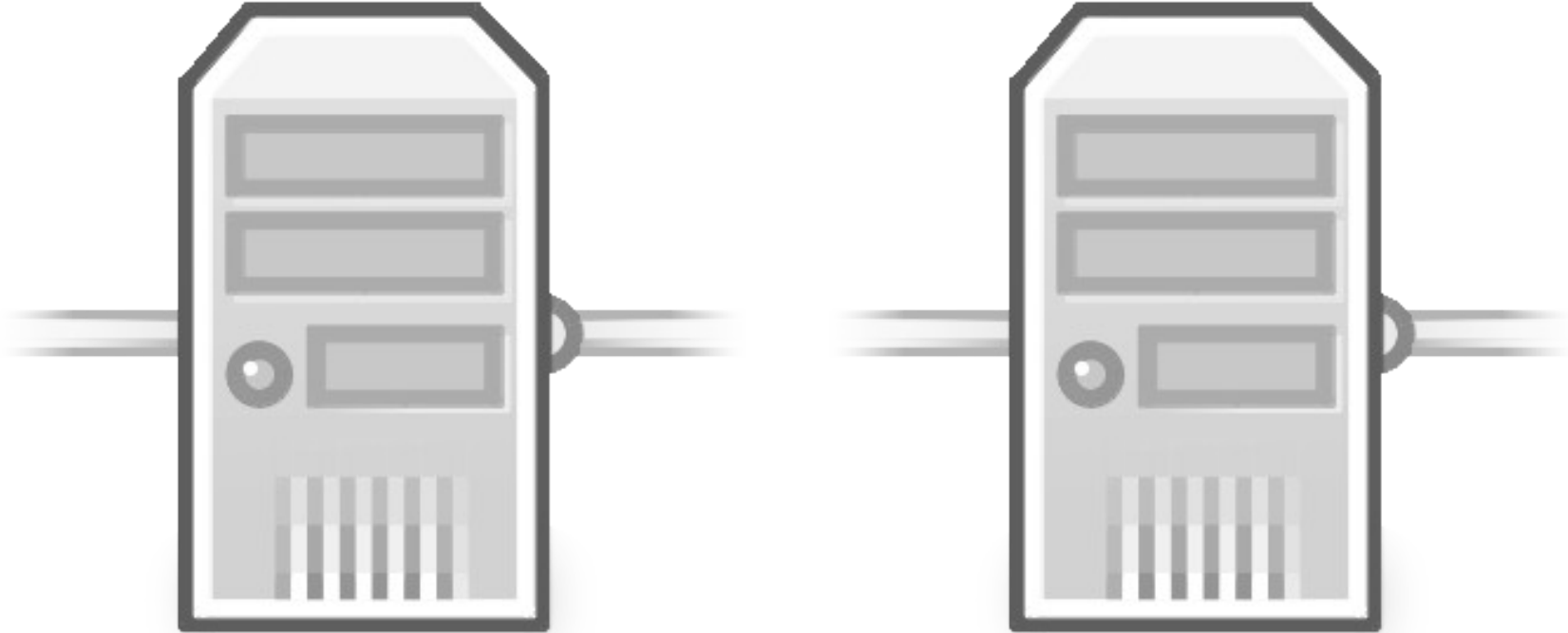
Authentication



Communication



Communication



Ancestors

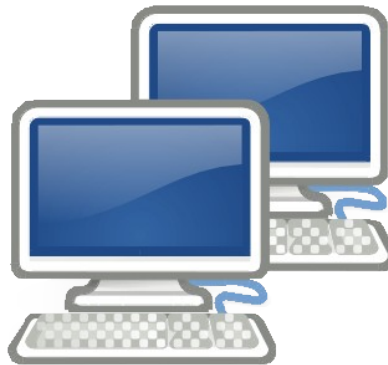
Telnet



Rlogin



RSH



SSH

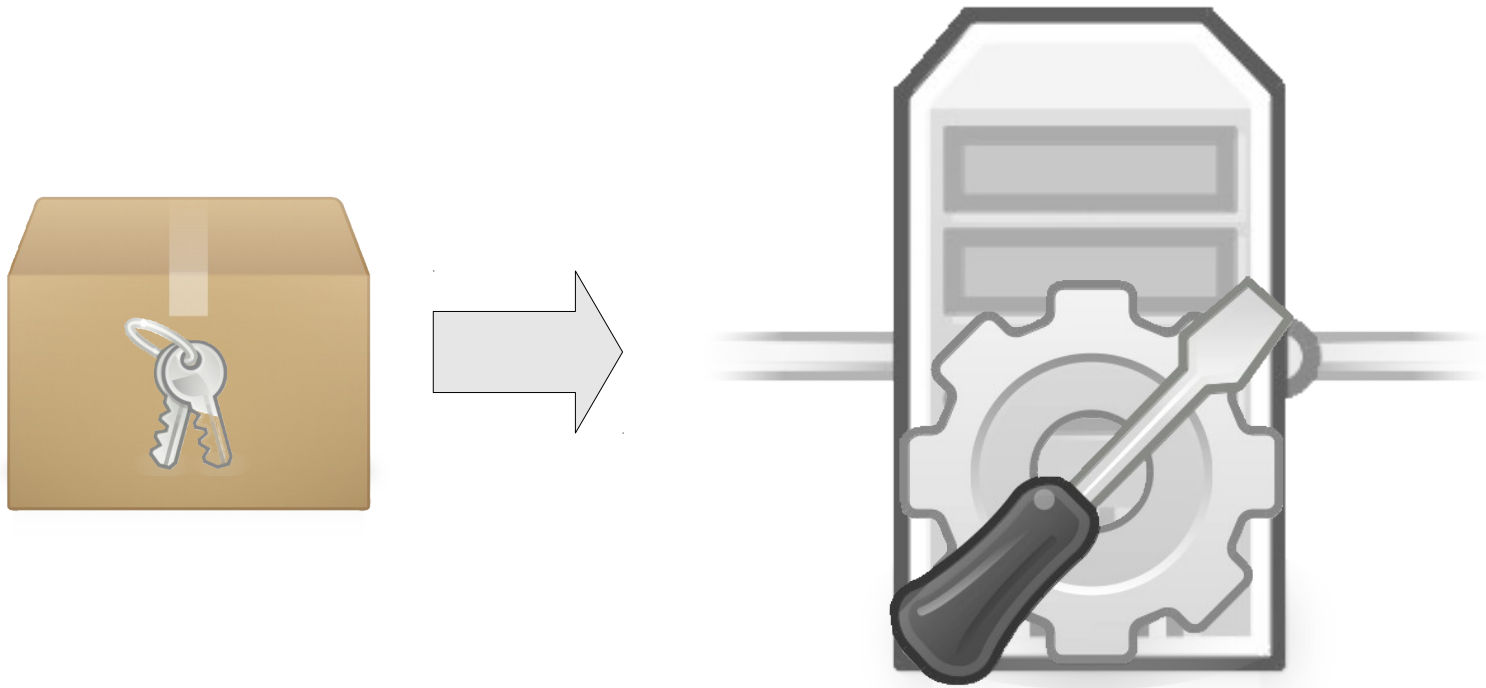


Approachs

Maintaine ssh_know_hosts



Deploy Private Key



SSHFP Resource Record



SSH + Kerberos



CERTIFICATE

```
ssh-dss
AAAAB3NzaC1kc3MAAACBAMeo0PULL9svYvy5kiG7jKDLmz
smzMRHd3h2sqGWMwxdufrLI22meltY8z88pjjj8NEh2SHdN/
bAFJ1wPd2vBr+rkhgpB2nGjLq5RTXz/ybQPNONN5K803lhuj
p7Zz5xoV6zWst/9BBHL3FQ97IDFWppO+wjqS0JK2zLZ+4Ne
HM5AAAAFQC/O/J20qv1SMel7uBZigq5VsfU0QAAAIB7Nvm
B7symeLUfVeUgfe4nhvYohqrKhgGRxW9kx6sabinvwG0evco
8+ekzybZilqms7qdsSpLjd6S4JaeEfe7K5LMvAqVuieY0uCsm
qdiCFhkAkWgyXlj9ISPfRe1/J07chajNoRRbhGKekFPnBwpb4
m7DbtpWCPQMtZvx+ixHGgAAAIBvPtWnuwm2vXellJ4QonF
655aR0M2MUKXCq8GT/GHgxWk3ASAEnsy2MFBTf9F+/c7V
prCWQPay4bWg2dKXdh+fRlcPAuc8VAruV/dPdqENyuQKESN
Lw3ykBxrWkcoSqPb+ABZR53dwtvCTR/BlwCpEgJQHNb7p/
nZSVsggRlIdA== root@demo
```



RSH + Kerberos



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Thank you very much!
Please contact me for further questions and discussions.



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