

DevOps -Azure 2024

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Agenda

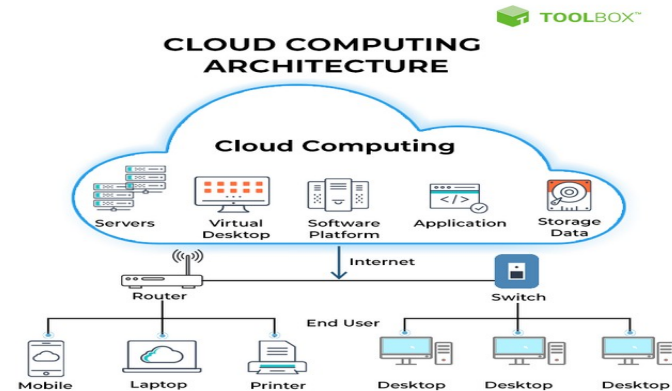
- **Devops**
- **Datacenter vs cloud**
- **Linux**
- **Shell scripting**
- **Git**

Devops

- ***Devops is a software development and deployment process.***
- ***It combines development and operations team.***
- ***Allows a single team to handle entire application lifecycle.***

Data center vs Cloud

<i>Data center</i>	<i>cloud</i>
<ul style="list-style-type: none">• <i>Physical resource</i>• <i>Maintenance high</i>• <i>Performance low</i>• <i>Required experienced developers to operate</i>	<ul style="list-style-type: none">• <i>Virtual resource</i>• <i>Maintenance low</i>• <i>Performance high</i>• <i>Easy to operate</i>



Linux

- *free, open source operating system.*
- *more secure than other operating system.*
- *Various linux distributions are available like ubuntu, debian, fedora etc.*

Basic Linux commands

- *Linux directory commands*

Pwd,mkdir,rmdir,ls,cd

- *Linux file commands*

Touch,cat,rm

- *Process management command*

Ps,top,kill

- *Memory usage command*

df,du,free

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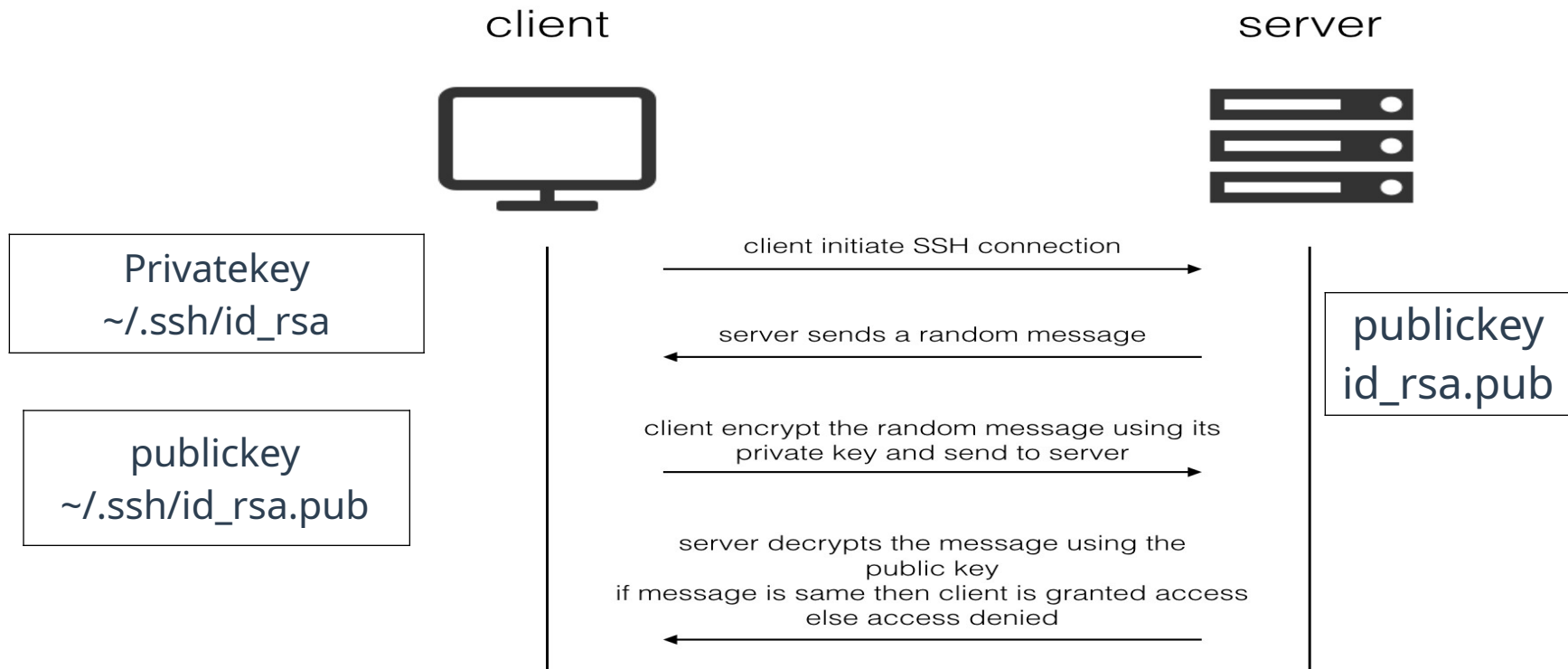
Secure shell

- *SSH that access by a remote system.*
- *It is way of communication between client and server through internet with secure.*

There are two types of authentication.

- *Keytype authentication*
- *Password type authentication*
 - Private key*
 - Public key*

SSH KEY generation



Shell scripting

- *scripting used in software industries.*
- *text file with list of commands to perform certain task.*
- *helpful to automative the tasks,helps to saving time and reduce error.*

Commands used in shell script

- ***vim filename .sh***
- ***#!/bin/bash***
- ***Chmod +x filename***
- ***./filename.sh***
- ***:wq!***
- ***:q!***

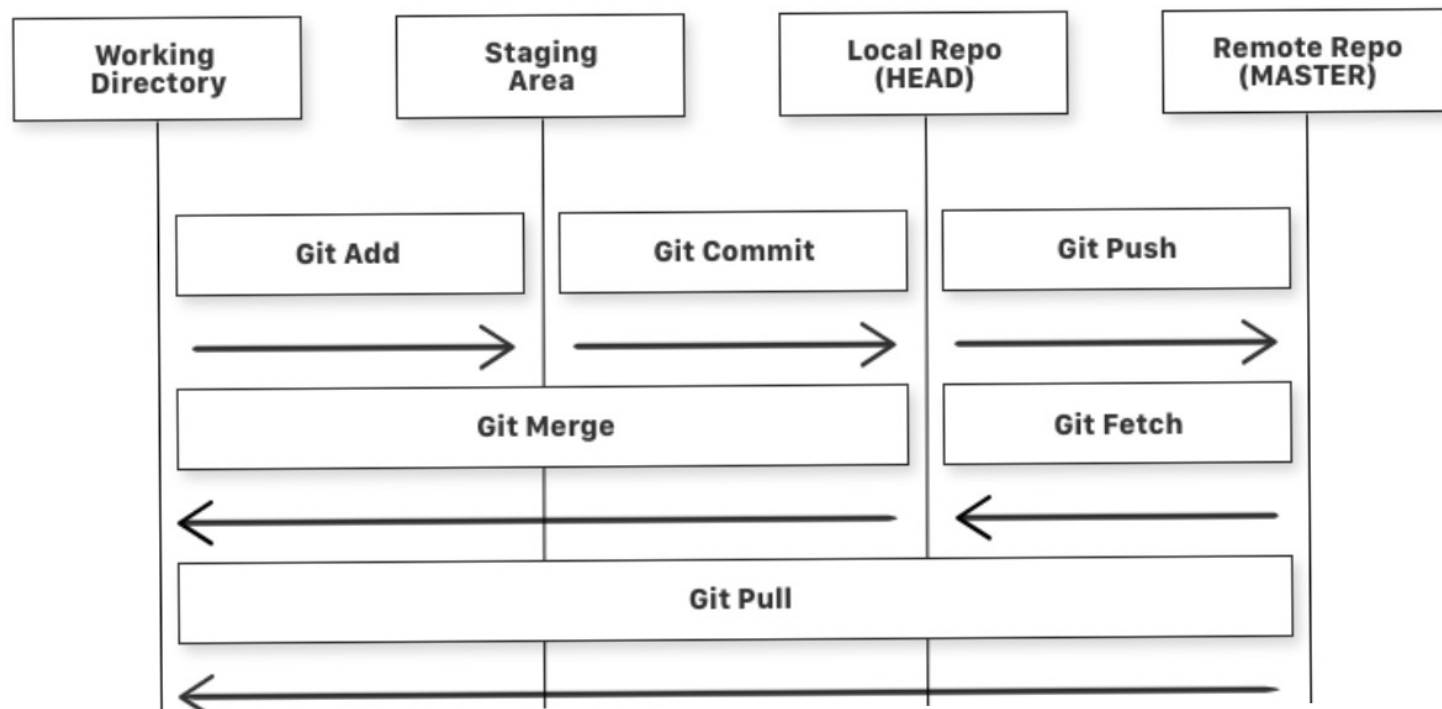
GIT-Global Information Tracker

- *version controll system .*
- *free and open source software .*
- *command line tool .*
- *Git hub is remote server.*

Some basic GIT commands

- ***Git init***
- ***Git add .***
- ***Git commit -m "message"***
- ***Git push***
- ***Git pull***
- ***Git branch***
- ***Git cherrypick***

GIT COMMANDS WORKFLOW





Thank you