1, software configuration management

configuration management refers to the process by which all artifacts relevant to your project and relationships bet ween them, are stored, retrived, uniquely identified, and modified asing Vision control, man aging dependencies managing software configuration

Managing software configuration if cocase inan another application lifecycle it males sense to inject a publicular piece of configuration at the point at deployment or instellion time, at start up time, as at run time dosporantosas constas signader yorker appeale ons carabour productioned

- 2. Keep the available configuration options for your application in the same repository asits source code configuration settings have a lifecycle completely differ I von troit of coole conste sensitive in formation should not be checked into Version control at all
- s are clear naming for your config options should be easly under Boudable by everyone
- 9 ensure trab gour configuration information remodular and en capsulated so that chaqes in one place dout have unock on effects for other apparently unvelobed, Pieces at con higaration
- 5 be non indust-le eep combiogration as snappu as possible

6- ensure that you have tests for your configuration sheeters runar a exployment of installation time theck the services footness in your 3/10 for available by

Version control systems, also known as source contra

in Githan model contributions are metade by first forking the repository of the project you wish contribute to making governances and temasking for the owners of original repository to pail governance

o Test poubles

- · replacing partata 8 gstem at rantome with a simulated version
- · A test docibleis amobject that can standin por arealobject Ina test
- · the most common typesat test doubles are stubs mocks and falors
- meszaros coi ned and segualdem test doubles ad a: Stinguisher various types at test doubles

4 Deploying pipelone

A deplognent Obpype line isan automobed man festation of process for getting software from version control 1 to the puets of g 08e99 This process involves building the soft wave followed byte progressat trevs builds having multiple stages of tosting and deployment

5 principles of soft asse delevery

1, Create arepeoloble, reliable process of releasing soft war

teleasing so flasare chould becasy. If should be as Simpleas pressing a button the rewallity Epoper eatiable ty devine from two Puraci ples

- A atomate al most every hung

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 A atomate for the pateprogram of a preparation of a
- keepenaghing in Velsion control
 - application should be leept insome for at versioned storys
 - 2, if it holds poilmore frequebly & bring to pain following if releasing software 15 painful, our to release It end to me deast ma change that passos our automated tests
 - de la production il le enviouet cupon every auchen
 - o Baild Quality in surgestion of a careapal goa can hist

3, pour means released

fully d'emous brocked to and fried by representations at the as a Community, of ran a production to be a community or early process of every process of the devenery process in Have a system where every one can see about the status at the application, 11's health, 14's wall at the way on the status at the application, 11's health, 14's wall at the way on the status they have passed

6, continuous in provenut The first releace as an application is just the first stage in it's life all applications evolve and more releases will follow it is Important test your dilivery process also evolves with!t

B, commitstage The cannot stage begins with a councit to haversion control system It ends with extra a reportatailue or at successed

du commi + 8/agis also he point or con cu you should begin the construend of your defound

pi peli e que clemnif stage une tre toll englestes

corating feathers mot can be dup layed into the por Penning any alongs I mesers records to ansonative

relations the code

crecting any others actifacts that well be used In any other stage of depresent pipeling