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Section - 11 # Benepits op Aws Cloudformation (1) D Inprastructure as code:--No resources eine manually created, which of excellent for control changes to the improstructure are reviewed through code review. Into introspite with ore supported). (2) Cost ?-- Each rescurces withing the stack & tagged with identifier so you can easily see how much a stack costs you. - You can estimate the cost of your resources using the cloud for matter template. 15 - Saving Strategy: In Dev, you could automation delation op templates at 5 PM & recreated of usy at 8 8m , sayely, mitemational month + god the right order unith the coast configured on 3 Productivity: - Ability to destroy & re-create an intrastructure on the cloud on the fly. - Automated generation of diagram for your templates.

- Della rative programming (no need to figure out ordering & orchestration)

Date:	
@ Don't re-Invent the wheel: - was	1
- Leverage excluting templates on the web	
- Leverage the documentation.	
sugargant soilimed	
(Supports (almost) all AWS Resources:>	-
Everything we'll see in this course is supposted	اله
- You can use "custom resources" for resour	les.
that are not supported.	
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ex: Chud Formation, + Application Composer	
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- We can see all resources the	
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AWS ' Cloud Development fature COK) 100 att no intolgrant proteins spormat -- Depine your cloud to imprastructure using a familiar language: Javasong +, typesengt, python, Java & Net - The code 183 " complied" into a Cloudformation DELOS demplate CSSON (ML) 3114 000 NOV that are not supported. 10 - You can thexepone deplay intrastructure & application runniture code to gether. - arrest for cambda functions - Great for docker containers in ECS EKS. * Elastic Beanstalk managed service: and agouted emottober ant are DInstance configuration los is handled by Beanstalk. @ Deployment strategy is configurable but performed by Elastic Beanstalk 20 3 Capacity provisioning @ Load Balancing & Auto Scaling 3 Application health - monitoring & responsiveness. Just the application code is the responsibility 25 of the developer.

Date:	
# AWS Elash's Beanstalk - O'vertire with the state of the	
- Elastic beam stalk B a developer contric New op deploying an application on Aws. - It uses all the component's we've seen before: Ec2, Asa, ElB, RDS, etc. - But Pt's all m one view that's early to make - we still have full control over the configuration.	
- Beanstelle - Platform as a service 144 .	
- Beanstalk & free but you have to pay for	
1 - A colitochere models :- "	
Desingle instance deployment: good for dev Desingle instance depl	luchiem roducti

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	Elastic Beansto	UK - Health monit	toning sura
Jane		mybushes metric	
5 6	Checks for	app health, publis	hes health events
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340/11	WS Code Deploy	cush and me the	28 W3 -
	AND SHED STATE	ALTERNATION OF THE PARTY OF THE	cation automatical
* *	mayor with to	n-premises serve	MHS SW
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AWS Code Artifact times stor and the - soptware packages depend upon each other to be build (also called code dependencies), & new once are created. Is note and at these 5-Storing & retrieving these dependencies 3 called artifact management - Traidationally you need to setup your own artifact management system, tobard - CodeArtitact of a secure, scalable of cost egged aetitaet management for sophware development - works with common dependency management took such as Maven creadle, npm, yam, twine, pipe of Nuchet about a - Developers & Code Build can than retrieve dependencies straight from Code Artifact. INA the betogether begins storing * Aws Codestar | Code Catalyst AND adebuild worldo 2 - Unist edu did to easily manage software development activités in one place some soliques " ouckway" to get started to correctly set up Codelommit, Code Pipeline, codeBilld, Codedeploy, . totition show (eles) show 25 4 Can edit code "in-the-doud" using AWD Cloud 9

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	Date :
J.	Cloud 9 °.>
60	AND Gloud 3 cloud IDC (Integrated Development
	actions of debugging
	COAC
	- " A cloud IDE can be used withing web
	browser, meaning you can work on your
	prof. from your ope, home or arrywhere with
	Internal with no setup necessary.
10	- AWI Cloud 9 also allows for code collaboration
	on real-time (pair programming)
fin	ma) sha) office stationmes begannon plant
*	AWS Systems Managere (SSM)
Klin	1- Hybrid AWS - Service William mitomorphism
	- Helps you manage your Ecz 3 on-premises
	sustems at scale
	- Another operational insight about the state
	op your mprastructure
	- suite of 10+ products.
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« chuest) of # AWS Codelipeline Orchestrate the different steps to have the code automatically pushed to production. = Code > Build > Test > Provision -> Deploy - Basic for CICD (Continuous Integration & Continuous delivery) . Proudon custon on other tonsoton oftenso * Benefits: we walls only a busin That . (PA/Amopopose sing) 2 mils - lase 167 D Fully managed, compatible with Code Commit, Code build, Code Deploy, Clastic Beanstalk; Claud formation, GitHub, 13rd-party services (GitHub) 895 3/ custom plugins of agonom way 1913Hstate eft todo depisor benoitosogo sentrant your surrantouchuse toubong tul yo skins. : 280 prestoof treokogun boals -Osbilana parcodos ses entonotes printes o Run commands acress an entire that of est thice contractions setemoras and (c E wood, Babrilly surist of works Rospberry Pi os CRospbian)

	Date :
* How	System Manager (SSM) Works
1) We r	need to mestall the seminanto systems we
3 Install	led by default on Amazon Linux AMI 3 Functions Ubuntu AMI.
01'c D	nistance can't be controlled by with ssM.
1	the same and the s
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	Date:
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#	System Manager - SSM Session Manager
	tropp
900 817	- Allows you to istait secure shell on your Ec
5	& on-premises servers.
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	needed. MA Whitehouse Ubuntu AMI. I have
: Mea (No post 22 meeded (better security)
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. eb mine	- Supports Linux, macos, & windows
	Gend seem who are the selection of the seem cere
	logs.
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Systems Manager Parameter store 1 - Secure storage for configuration & secrets Him colosis offices, 3600 p ep 3admides 200 - API keys, passwords, configurations - 11 - Repeat among & Accounts. - serverless, scalable, durable, easy sok. (Hao Sha) -: Hotenosa 3 - Control access permissions using IAM. 10 restroy or especial primanteporty aidsea - Version tracking & encryption coptional) Sold Hillion & . 201 + 401 + QUA :x3 100 9 b 00 gg 1 & gold 3 -: (predict) hold 3 pold 3 (a systems Manager (budyd) 3- patch, configer

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Deployment - Summary : Property &

- mfrasmichire as a code, with works with almost all of Aws resources.
 - Repeat across Regions & Accounts.
 - @ Beanstalk :- (AWS only)
 - Platform as a service (Paas), limited to
- 10 certain programming languages or Dotker.
 - Deploy code consistently with known.
 - archite chire
 - ex: ALB+ EC2 + RDS.
- application onto servers.
 - (a) Systems Manager (hybrid): patch, configure & run comands at scale.

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Date	
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Developer services - Summary

- 1 Code Commit: Store code in private git repository (version controlled)
- 2 CodeBuild: Build & trest code on ANS.
- 3 Code Deploy: Deploy code onto servers.
- (from code to build to deploy)
 - 3 Code Artifact: Store software packages dependences on AWS.
 - @ Codestar :- Unified view ofor allowing dependence developers to do allab p & code.
 - P Cloud 9: Cloud IDE with collab (pair programmin)
 - B AWS COK: Define your cloud infrastructure using a programming language.